Work Order: 7052912 API-30-015-33563 Page Number: 1 of 2 S23 T255 R26E,Eddy Co.,NM

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

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	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	${f Units}$	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

Wigeon 23 Fed #1	, 2007	Work Order: 7052912 API-30-015-33563		Number: 2 of 2 E,Eddy Co.,NM	
Sample: 125653 - 5	5-NW Quad 10'				
Param	Flag	Result	Units	RL	
Chloride		143	mg/Kg	5.00	
Sample: 125654 - 6	6- SW Quad 10'				
ъ	171			D.T.	
Param Chloride	Flag	Result 648	Units mg/Kg	RL 5.00	
Chloride		648	Units mg/Kg	RL 5.00	
		648			



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

Lubbock, Texas 79424 El Paso, Texas 79922 Midiand, Texas 79703 800+378+1296 889 • 588 • 3443

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

FAX 806 • 794 • 1298 FAX 915+595+4944 FAX 432 • 689 • 6313

817 • 201 • 5266

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Dorsey Rogers Cimarex 207 S Mesa

Carlsbad, NM, 88220

Report Date: May 30, 2007

7052912

Work Order:

Project Location: S23 T255 R26E,Eddy Co.,NM

Project Name: Project Number:

API-30-015-33563 Wigeon 23 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
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.

This report consists of a total of 6 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-30-015-33563 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.

\mathbf{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.

Report Date: May 30, 2007 Wigeon 23 Fed #1

Work Order: 7052912 API-30-015-33563

Page Number: 3 of 6 S23 T255 R26E, Eddy Co., NM

Analytical Report

Sample:	125649	- 1-NE	Quad	10'
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Chloride (Titration) Analysis:

QC Batch: 37627 Prep Batch: 32602

SM 4500-Cl B Analytical Method: Date Analyzed:

2007-05-29 2007-05-29

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

RL

Parameter Flag Result Units Dilution RLChloride 411 5.00 mg/Kg 10

Sample Preparation:

Sample: 125650 - 2-SE Quad 10'

Analysis: Chloride (Titration) QC Batch: 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

RL

Dilution Parameter Flag Result Units RLChloride 253 mg/Kg 10 $\overline{5.00}$

Sample: 125651 - 3-N Center 10'

Chloride (Titration) Analysis: QC Batch: 37627 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

RL

236

Dilution Result Units RLParameter Flag 5.00 Chloride 310 mg/Kg 10

Sample: 125652 - 4-S Center 10'

Analysis: Chloride (Titration) QC Batch: 37627 32602 Prep Batch:

Chloride

Prep Batch:

Analytical Method: Date Analyzed: Sample Preparation:

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

mg/Kg

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

Parameter Flag

RLResult Units

Dilution RL10 5.00

Sample: 125653 - 5-NW Quad 10'

Analysis: Chloride (Titration) QC Batch: 37627 Prep Batch: 32602

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

Prep Method: N/AAnalyzed By: JSPrepared By: JS

Report Date: May 30, 2007 Wigeon 23 Fed #1

7 Work Order: 7052912 API-30-015-33563 Page Number: 4 of 6 S23 T255 R26E,Eddy Co.,NM

		RL			
Parameter	Flag	Result	Units	Dilution	RI
Chloride		143	mg/Kg	10	5.00
Sample: 12	5654 - 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:	$_{ m JS}$
Prep Batch:	32602	Sample Preparation:	2007-05-29	Prepared By:	JS
		RL			
Parameter	Flag	Result	Units	Dilution	RI
Chloride		648	mg/Kg	100	5.00
Sample: 12	5655 - 7- Background 0-6 In	nch			
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37628	Date Analyzed:	2007-05-29	Analyzed By:	JŚ
Prep Batch:	32603	Sample Preparation:	2007-05-29	Prepared By:	JS
		RL			
Parameter	Flag	Result	Units	Dilution	RI
Chloride		<20.0	mg/Kg	4	5.00
Method Bla	ank (1) QC Batch: 37627				
QC Batch:	37627	Date Analyzed: 2007	7-05-29	Analyzed By:	: JS
Prep Batch:	32602		7-05-29	Prepared By:	
•		•			
_		$_{ m MDL}$			
Parameter	Flag	Result		Units	RI
Chloride		<3.25		mg/Kg	5
Method Bla	ank (1) QC Batch: 37628				
QC Batch:	37628	Date Analyzed: 200'	7-05-29	Analyzed By	: JS
Prep Batch:	32603		7-05-29	Prepared By:	
-		•			

Laboratory Control Spike (LCS-1)

Flag

Parameter

Chloride

MDL

 \mathbf{Result}

< 3.25

Units

mg/Kg

RL

Report Date: May 30, 2007

Wigeon 23 Fed #1

Work Order: 7052912 API-30-015-33563

Page Number: 5 of 6 S23 T255 R26E, Eddy Co., NM

	LCS			Spike	Matrix		Rec.
Param	Result	\mathbf{Units}	Dil.	Amount	Result	${ m Rec.}$	$_{ m Limit}$
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.

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

Prepared By: JS

Prep Batch: 32603

QC Preparation:

2007-05-29

	LCS			\mathbf{Spike}	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	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.

	LCSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	101	mg/Kg	1	100	< 3.25	101	90 - 110	0	20

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

Spiked Sample: 125654 Matrix Spike (MS-1)

QC Batch:

Date Analyzed:

2007-05-29

Analyzed By: JS

Prep Batch: 32602

QC Preparation: 2007-05-29 Prepared By: JS

Rec. MS Spike Matrix Units Dil. Result Limit Param Result Amount Rec. 10000 648 $\overline{2}$ 84.6 - 117 Chloride 904 mg/Kg 100

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

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

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

²Matrix 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

Wigeon 23 Fed #1

Work Order: 7052912 API-30-015-33563 Page Number: 6 of 6 S23 T255 R26E,Eddy Co.,NM

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	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.

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	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

			ICVs	ICVs	ICVs	Percent	
			${f True}$	Found	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

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

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

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	\mathbf{Flag}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.9	100	85 - 115	2007-05-29

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.

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TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296

5002 Basin Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313 200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443 6015 Harris Pkwy., Suite 110 Ft. Worth, Texas 76132 Tel (817) 201-5260

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