Summary Report

Allen Hodge
Phoenix Environmental
P.O. Box 1856
Hobbs, NM, 88241

30-015-34194
Marquardt 1 Penn Fed #2

Report Date: March 8, 2007

Work Order: 7030823

Project Number: Cimarex Marquardt #2

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
118348	Inside North 7'	soil	2007-03-07	11:50	2007-03-08
118349	Inside South 7'	soil	2007-03-07	11:40	2007-03-08
118350	Outer West 7'	soil	2007-03-07	12:00	2007-03-08
118351	Outer North 7'	soil	2007-03-07	10:35	2007-03-08
118352	Outer South 7'	soil	2007-03-07	12:12	2007-03-08
118353	Background	soil	2007-03-07	12:21	2007-03-08

Sample: 118348 - Inside North 7'

Param	Flag	Result	Units	RL
Chloride		**140**	mg/Kg	5.00

Sample: 118349 - Inside South 7'

Param	Flag	Result	Units	RL
Chloride		**28.9**	mg/Kg	5.00

Sample: 118350 - Outer West 7'

Param	Flag	Result	Units	RL
Chloride		<50.0	mg/Kg	5.00

Sample: 118351 - Outer North 7'

Param	Flag	Result	Units	RL
Chloride		**53.8**	mg/Kg	5.00

Sample: 118352 - Outer South 7'

Param	Flag	Result	Units	RL
Chloride		**45.0**	mg/Kg	5.00

Sample: 118353 - Background

Param	Flag	Result	Units	RL
Chloride		**40.2**	mg/Kg	5.00

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Allen Hodge
Phoenix Environmental
P.O. Box 1856
Hobbs, NM, 88241

30-005-34194
Marquardt / Penn Fed #2

Report Date: March 8, 2007

Work Order: 7030823

Project Number: Cimarex Marquardt #2

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
118348	Inside North 7'	soil	2007-03-07	11:50	2007-03-08
118349	Inside South 7'	soil	2007-03-07	11:40	2007-03-08
118350	Outer West 7'	soil	2007-03-07	12:00	2007-03-08
118351	Outer North 7'	soil	2007-03-07	10:35	2007-03-08
118352	Outer South 7'	soil	2007-03-07	12:12	2007-03-08
118353	Background	soil	2007-03-07	12:21	2007-03-08

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.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 118348 - Inside North 7'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35392	Date Analyzed:	2007-03-08	Analyzed By:	JS
Prep Batch:	30713	Sample Preparation:	2007-03-08	Prepared By:	JS

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**140**	mg/Kg	20	5.00

Sample: 118349 - Inside South 7'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35392	Date Analyzed:	2007-03-08	Analyzed By:	JS
Prep Batch:	30713	Sample Preparation:	2007-03-08	Prepared By:	JS

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**28.9**	mg/Kg	4	5.00

Sample: 118350 - Outer West 7'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35392	Date Analyzed:	2007-03-08	Analyzed By:	JS
Prep Batch:	30713	Sample Preparation:	2007-03-08	Prepared By:	JS

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		<50.0	mg/Kg	10	5.00

Sample: 118351 - Outer North 7'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35392	Date Analyzed:	2007-03-08	Analyzed By:	JS
Prep Batch:	30713	Sample Preparation:	2007-03-08	Prepared By:	JS

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**53.8**	mg/Kg	4	5.00

Sample: 118352 - Outer South 7'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35392	Date Analyzed:	2007-03-08	Analyzed By:	JS
Prep Batch:	30713	Sample Preparation:	2007-03-08	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**45.0**	mg/Kg	4	5.00

Sample: 118353 - Background

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35392	Date Analyzed:	2007-03-08	Analyzed By:	JS
Prep Batch:	30713	Sample Preparation:	2007-03-08	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**40.2**	mg/Kg	4	5.00

Method Blank (1) QC Batch: 35392

QC Batch:	35392	Date Analyzed:	2007-03-08	Analyzed By:	JS
Prep Batch:	30713	QC Preparation:	2007-03-08	Prepared By:	JS

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

Laboratory Control Spike (LCS-1)

QC Batch:	35392	Date Analyzed:	2007-03-08	Analyzed By:	JS
Prep Batch:	30713	QC Preparation:	2007-03-08	Prepared By:	JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.4	mg/Kg	1	100	<3.25	99	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	1	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: 118353

QC Batch:	35392	Date Analyzed:	2007-03-08	Analyzed By:	JS
Prep Batch:	30713	QC Preparation:	2007-03-08	Prepared By:	JS

continued ...

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride [1]	247	mg/Kg	4	400	40.161	52	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]	241	mg/Kg	4	400	40.161	50	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: 35392 Date Analyzed: 2007-03-08 Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2007-03-08

Standard (CCV-1)

QC Batch: 35392 Date Analyzed: 2007-03-08 Analyzed By: JS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-03-08

[1] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[2] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

LAB Order ID # 7030823 Page ____ of ____

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Contact Person: ~~Paul~~ ALLEN HODGE
E-mail: eahodge@leaco.net
Invoice to: (If different from above)
Project #: CIMAREX MARQUARDT #2
Project Name:
Project Location (including state):
Sampler Signature: Kay Farmer

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	PRESERVATIVE METHOD: HCl	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: H_2SO_4	PRESERVATIVE METHOD: NaOH	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	SAMPLING: DATE	SAMPLING: TIME
118348	INSide North 7'	202			X							X		3/7/07	11:36A
49	INSide South 7'	202			X							X			11:40A
50	Outer West 7'	202			X							X			12:00P
51	Outer North 7'	202			X							X			10:35A
52	Outer South 7'	202			X							X			12:12P
53	Back Ground	202			X							X			12:21P

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	X
Cl	X
	X
	X
	X
	X
	X
Turn Around Time if different from standard	
Hold	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	3/8/07	10:45AM			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Rebecca Ruple	3-8-07	10:45

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 4°C
Log-in-Review

REMARKS:

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

Carrier # Courier

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

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