

Summary Report

Cheryl Winkler
Nadel & Gussman Permian LLC
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Midland, TX, 79701

Report Date: July 5, 2007

Work Order: 7070509

**30-015-34861**

Project Location: Pit Outer Horeshoe-W. Side resample #1
Project Name: Bond Fee #2 (Pit Outer Horeshoe-W. Side)

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
129104	N Wall & Floor resample	soil	2007-06-30	12:00	2007-07-05
129105	S Wall & Floor resample	soil	2007-06-30	12:20	2007-07-05
129106	E Wall & Floor resample	soil	2007-06-30	12:40	2007-07-05
129107	W Wall & Floor resample	soil	2007-06-30	12:50	2007-07-05
129108	Pit bottom comp.	soil	2007-06-30	13:00	2007-07-05

Sample: 129104 - N Wall & Floor resample

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

Sample: 129105 - S Wall & Floor resample

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

Sample: 129106 - E Wall & Floor resample

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

Sample: 129107 - W Wall & Floor resample

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

Sample: 129108 - Pit bottom comp.

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

This is only a summary. Please, refer to the complete report package for quality control data.

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



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Analytical and Quality Control Report

Cheryl Winkler
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601 N. Marienfeld
Suite 508
Midland, TX, 79701

Report Date: July 5, 2007

Work Order: 7070509



Project Location: Pit Outer Horeshoe-W. Side resample #1
Project Name: Bond Fee #2 (Pit Outer Horeshoe-W. Side)
Project Number: Bond Fee #2-W. Side

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
129104	N Wall & Floor resample	soil	2007-06-30	12:00	2007-07-05
129105	S Wall & Floor resample	soil	2007-06-30	12:20	2007-07-05
129106	E Wall & Floor resample	soil	2007-06-30	12:40	2007-07-05
129107	W Wall & Floor resample	soil	2007-06-30	12:50	2007-07-05
129108	Pit bottom comp.	soil	2007-06-30	13:00	2007-07-05

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 5 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 Bond Fee #2 (Pit Outer Horeshoe-W. Side) were received by TraceAnalysis, Inc. on 2007-07-05 and assigned to work order 7070509. Samples for work order 7070509 were received intact at a temperature of 22.0 deg 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 7070509 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: 129104 - N Wall & Floor resample

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38790	Date Analyzed:	2007-07-05	Analyzed By:	JS
Prep Batch:	33569	Sample Preparation:	2007-07-05	Prepared By:	JS

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

Sample: 129105 - S Wall & Floor resample

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38790	Date Analyzed:	2007-07-05	Analyzed By:	JS
Prep Batch:	33569	Sample Preparation:	2007-07-05	Prepared By:	JS

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

Sample: 129106 - E Wall & Floor resample

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38790	Date Analyzed:	2007-07-05	Analyzed By:	JS
Prep Batch:	33569	Sample Preparation:	2007-07-05	Prepared By:	JS

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

Sample: 129107 - W Wall & Floor resample

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38790	Date Analyzed:	2007-07-05	Analyzed By:	JS
Prep Batch:	33569	Sample Preparation:	2007-07-05	Prepared By:	JS

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

Sample: 129108 - Pit bottom comp.

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38790	Date Analyzed:	2007-07-05	Analyzed By:	JS
Prep Batch:	33569	Sample Preparation:	2007-07-05	Prepared By:	JS

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

Method Blank (1) QC Batch: 38790

QC Batch: 38790

Date Analyzed: 2007-07-05

Analyzed By: JS

Prep Batch: 33569

QC Preparation: 2007-07-05

Prepared By: JS

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

Laboratory Control Spike (LCS-1)

QC Batch: 38790

Date Analyzed: 2007-07-05

Analyzed By: JS

Prep Batch: 33569

QC Preparation: 2007-07-05

Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.6	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	99.4	mg/Kg	1	100	<3.25	99	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: 129108

QC Batch: 38790

Date Analyzed: 2007-07-05

Analyzed By: JS

Prep Batch: 33569

QC Preparation: 2007-07-05

Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 199	mg/Kg	4	400	<13.0	50	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	² 202	mg/Kg	4	400	<13.0	50	84.6 - 117	2	20

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

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.

Standard (ICV-1)

QC Batch: 38790

Date Analyzed: 2007-07-05

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	2007-07-05

Standard (CCV-1)

QC Batch: 38790

Date Analyzed: 2007-07-05

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	2007-07-05

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LAB Order ID # 7070504

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Address: (Street, City, Zip) 601 N. Wardenfeld, #508, Midland, TX 79701 Fax #:
Contact Person: Kem McCreedy E-mail: kem@nadelquiman.com
Invoice to:
If different from above)

Project #: Bond Fee #2 Project Name: GAZ
Project Location (including state): Pit Outer Horseshoe W side reample #1 Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
125104	N wall's floor re-sample	1			X							X	6/30	1200
5	S " " "	1			X							X		1220
6	E " " "	1			X							X		1240
7	W " " "	1			X							X		1250
129108	Pit bottom comp.	1			X							X	↓	1300
All samples are composite														
1														

ANALYSIS REQUEST (Circle or Specify Method No.)

<input type="checkbox"/> MTBE 8021B / 602 / 8260B / 624	<input type="checkbox"/> BTEX 8021B / 602 / 8260B / 624	<input type="checkbox"/> TPH 418.1 / TX1005 / TX1005 Ex(C35)	<input type="checkbox"/> TPH 8015 GRO / DRO / TVHC	<input type="checkbox"/> PAH 8270C / 625	<input type="checkbox"/> Total Metals Ag As Ba Cd Cr Pb Se Hg 8010B/2007	<input type="checkbox"/> TCLP Metals Ag As Ba Cd Cr Pb Se Hg	<input type="checkbox"/> TCLP Volatiles	<input type="checkbox"/> TCLP Semi Volatiles	<input type="checkbox"/> TCLP Pesticides	<input type="checkbox"/> RCI	<input type="checkbox"/> GC/MS Vol. 8260B / 624	<input type="checkbox"/> GC/MS Semi Vol. 8270C / 625	<input type="checkbox"/> PCB's 8082 / 608	<input type="checkbox"/> Pesticides 8081A / 608	<input type="checkbox"/> BOD, TSS, pH	<input type="checkbox"/> Moisture Content	<input type="checkbox"/> Turn Around Time if different from standard	<input type="checkbox"/> Hold
<p>Sail 1/2 on all samples</p> <p>Email results to:</p> <p>kem@nadelquiman.com</p> <p>mike.bratcher@state.tx.us</p> <p>cmwink@mac.com</p>																		

Relinquished by: [Signature] Date: 6/30/07 Time: 1700
Received by: _____ Date: _____ Time: _____
Relinquished by: _____ Date: _____ Time: _____
Received by: _____ Date: _____ Time: _____
Relinquished by: _____ Date: _____ Time: _____
Received at Laboratory by: [Signature] Date: 070507 Time: 1115

LAB USE ONLY
Intact (Y) N
Headspace Y N
Temp 72
Log-in-Review _____
REMARKS:
☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # BUS GLI 3041310900