Work Order: 7040220

Page Number: 1 of 2 Nitro 11 Fed #1

# **Summary Report**

Justin Hutchins Phoenix Environmental 2113 French Dr. P.O. Box 1856 Hobbs, NM, 88240-41

Report Date: April 2, 2007

Work Order: 7040220

Project Location: Nitro 11 Fed #1 Project Number: 30-015-34770

			Date	${f Time}$	Date
Sample	Description	Matrix	Taken	Taken	Received
$\overline{120521}$	East Ramp 12'	soil	2007-04-02	07:30	2007-04-02
120522	West Ramp 12'	soil	2007-04-02	07:45	2007-04-02
120523	Bottom Center 28'-30'	soil	2007-04-02	08:15	2007-04-02
120524	North Wall 20'	soil	2007-04-02	08:45	2007-04-02
120525	South Wall 20'	soil	2007-04-02	09:00	2007-04-02
120526	BG	soil	2007-04-02	09:45	2007-04-02

Sample: 120521 - East Ramp 12'

Param	Flag	Result	Units	RL
Chloride		3880	mg/Kg	5.00

Sample: 120522 - West Ramp 12'

Param	$\operatorname{Flag}$	${f Result}$	Units	RL
Chloride		1300	mg/Kg	5.00

Sample: 120523 - Bottom Center 28'-30'

Param	Flag	$\operatorname{Result}$	Units	RL
Chloride		1130	mg/Kg	5.00

Sample: 120524 - North Wall 20'

Param	Flag	Result	Units	RL
Chloride		521	$_{ m mg/Kg}$	5.00

Report Date: April 2, 2007

30-015-34770

Work Order: 7040220

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Sample: 120525 - South Wall 20'

Param	$\operatorname{Flag}$	Result	Units	RL
Chloride		629	mg/Kg	5.00

Sample: 120526 - BG

Param	Flag	$\operatorname{Result}$	Units	ho
Chloride		<100	mg/Kg	5.00



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## Analytical and Quality Control Report

Justin Hutchins Phoenix Environmental 2113 French Dr. P.O. Box 1856 Hobbs, NM, 88240-41

Report Date: April 2, 2007

Work Order: 7040220

Project Location: Nitro 11 Fed #1 30-015-34770 Project Number:

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			$\mathbf{Date}$	${f Time}$	Date
Sample	Description	Matrix	Taken	Taken	Received
120521	East Ramp 12'	soil	2007-04-02	07:30	2007-04-02
120522	West Ramp 12'	soil	2007-04-02	07:45	2007-04-02
120523	Bottom Center 28'-30'	soil	2007-04-02	08:15	2007-04-02
120524	North Wall 20'	soil	2007-04-02	08:45	2007-04-02
120525	South Wall 20'	soil	2007-04-02	09:00	2007-04-02
120526	BG	soil	2007-04-02	09:45	2007-04-02

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 were received by TraceAnalysis, Inc. on 2007-04-02 and assigned to work order 7040220. Samples for work order 7040220 were received intact at a temperature of 4 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 occuring, however, it may not pertain to the samples for work order 7040220 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 preformed 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.

Page Number: 3 of 5 Report Date: April 2, 2007 Work Order: 7040220 Nitro 11 Fed #1

30-015-34770

## **Analytical Report**

Sample: 120521 - East Ramp 12'

Analysis: Chloride (Titration)

QC Batch: 36119 Prep Batch: 31344 Analytical Method: SM 4500-Cl B Date Analyzed: 2007-04-02

2007-04-02

Prep Method: N/A Analyzed By: JSJS Prepared By:

RL

RLUnits Dilution Result Parameter Flag 3880 100 5.00 Chloride mg/Kg

Sample Preparation:

Sample: 120522 - West Ramp 12'

Analysis: Chloride (Titration)

QC Batch: 36119 Prep Batch: 31344

Analytical Method: SM 4500-Cl B 2007-04-02 Date Analyzed: 2007-04-02 Sample Preparation:

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

RLRLParameter Flag Result Units Dilution 5.00 Chloride 1300 mg/Kg 20

Sample: 120523 - Bottom Center 28'-30'

Analysis: Chloride (Titration)

QC Batch: 36119 Prep Batch: 31344

SM 4500-Cl B Analytical Method: Date Analyzed: 2007-04-02 Sample Preparation: 2007-04-02

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

Result Units Dilution RLParameter Flag Chloride 1130 20 5.00 mg/Kg

RL

Sample: 120524 - North Wall 20'

Analysis: Chloride (Titration) QC Batch: 36119

Prep Batch: 31344

Chloride

Analytical Method: SM 4500-Cl B Date Analyzed: 2007-04-02 Sample Preparation: 2007-04-02

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

Parameter Flag

RLDilution RLResult Units 521 5.00 mg/Kg 10

Sample: 120525 - South Wall 20'

Analysis: Prep Method: N/A Chloride (Titration) Analytical Method: SM 4500-Cl B QC Batch: 36119 Date Analyzed: 2007-04-02 Analyzed By: JS2007-04-02 JSPrep Batch: 31344 Prepared By: Sample Preparation:

Report Date: April 2, 2007

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		RL			
Parameter	$\operatorname{Flag}$	Result	${ m Units}$	Dilution	RL
Chloride		629	mg/Kg	10	5.00

Sample: 120526 - BG

Analysis: QC Batch: Chloride (Titration)

36119 Prep Batch: 31344 Analytical Method: Date Analyzed:

SM 4500-Cl B 2007-04-02

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

Sample Preparation: 2007-04-02

JSPrepared By:

RL

Parameter	Flag	$\mathbf{Result}$	$\operatorname{Units}$	Dilution	RL
Chloride		<100	mg/Kg	20	5.00

Method Blank (1)

QC Batch: 36119

QC Batch: 36119 Date Analyzed: 2007-04-02 Analyzed By: JS

Prep Batch: 31344

QC Preparation: 2007-04-02

Prepared By: JS

MDL

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

### Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 31344

Date Analyzed:

2007-04-02 QC Preparation: 2007-04-02

Analyzed By: JS Prepared By: JS

LCS Spike Matrix Rec. Param Dil. Result Units Amount Result Rec. Limit Chloride 101 mg/Kg 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			$\mathbf{S}_{\mathbf{pike}}$	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$	RPD	$\mathbf{Limit}$
Chloride	99.3	mg/Kg	1	100	< 3.25	99	90 - 110	2	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: 120521

QC Batch:

36119 Prep Batch: 31344

Date Analyzed:

2007-04-02

QC Preparation: 2007-04-02 Analyzed By: JS

Prepared By: JS

continued ...

Report Date: April 2, 2007

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Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
		MS			Spike	Matrix		Rec.
Param		Result	${ m Units}$	Dil.	Amount	Result	Rec.	$\operatorname{Limit}$
Chloride	1	4250	mg/Kg	100	10000	3880	4	84.6 - 117

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

		MSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	$_{ m Limit}$
Chloride	2	4350	mg/Kg	100	10000	3880	5	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: 36119

Date Analyzed: 2007-04-02

Analyzed By: JS

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	${ m Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-04-02

## Standard (CCV-1)

QC Batch: 36119

Date Analyzed: 2007-04-02

Analyzed By: JS

			$\mathrm{CCVs}$	CCVs	$\mathrm{CCVs}$	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	${f Flag}$	Units	Conc.	Conc.	Recovery	Limits	$\mathbf{Analyzed}$
Chloride		mg/Kg	100	99.9	100	85 - 115	2007-04-02

<sup>&</sup>lt;sup>1</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>&</sup>lt;sup>2</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

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# TraceAnalysis, Inc.

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