APPENDIX F

Data Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Totten

Collection Date: June 26, 2004

LDC Report Date: August 10, 2004

Matrix: Air

Parameters: Mercury

Validation Level: EPA Level IV

Laboratory: Adirondack Environmental Services, Inc.

Sample Delivery Group (SDG): BKGA-HG-01-H

Sample Identification

AD2004-AIR-HG-01-H
AD2004-AIR-HG-01-L
AD2004-AIR-HG-02-H
AD2004-AIR-HG-02-L
AD2004-AIR-HG-03-H
AD2004-AIR-HG-03-L
AD2004-AIR-HG-04-H
AD2004-AIR-HG-04-L
AD2004-AIR-HG-24-H
AD2004-AIR-HG-24-L
AD2004-AIR-HG-05-H
AD2004-AIR-HG-05-L
AD2004-AIR-HG-06-H
AD2004-AIR-HG-06-L
AD2004-AIR-HG-07-H
AD2004-AIR-HG-07-L
AD2004-AIR-HG-08-H
AD2004-AIR-HG-08-L
AD2004-AIR-HG-09-H
AD2004-AIR-HG-09-L
AD2004-AIR-HG-10-H
AD2004-AIR-HG-10-L
AD2004-BKGA-HG-01-H
AD2004-BKGA-HG-01-L
Fblank

Introduction

This data review covers 25 air samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per NIOSH Method 6009 for Mercury.

This review follows the NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5), USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio (March 1979), 40CFR Part 792 on Good Laboratory Practice Standards, and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the method stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG BKGA-HG-01-H	Mercury	Two method blanks were associated with these samples.	At least three method blank analyses must be performed as required by the method.	None	P

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Sample "Fblank" was identified as a field blank. No mercury was found in this blank.

IV. ICP Interference Check Sample (ICS) Analysis

ICP Check sample analyses were not required by the method.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were not required by the method.

VI. Duplicate Sample Analysis

Matrix duplicate (DUP) analyses were not required by the method.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG BKGA-HG-01-H	Mercury	More than twenty samples associated to a laboratory control sample.	No more than twenty samples to be associated to laboratory control sample.	None	P

Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standard (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not required by the method.

XI. Sample Result Verification

All sample result verifications met validation criteria.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

XIII. Field Duplicates

Samples AD2004-AIR-HG-04-L and AD2004-AIR-HG-04-L (from SDG L106602 Galson Laboratories) were identified as field duplicates. No mercury was detected in any of the samples.

Fort Totten
Mercury - Data Qualification Summary - SDG BKGA-HG-01-H

SDG	Sample	Analyte	Flag	A or P	Reason
BKGA-HG-01-H	AD2004-AIR-HG-01-H AD2004-AIR-HG-01-L AD2004-AIR-HG-02-H AD2004-AIR-HG-02-L AD2004-AIR-HG-03-H AD2004-AIR-HG-03-L AD2004-AIR-HG-04-H AD2004-AIR-HG-04-L AD2004-AIR-HG-24-H AD2004-AIR-HG-24-L AD2004-AIR-HG-05-H AD2004-AIR-HG-05-L AD2004-AIR-HG-06-H AD2004-AIR-HG-06-L AD2004-AIR-HG-07-H AD2004-AIR-HG-07-L AD2004-AIR-HG-08-H AD2004-AIR-HG-08-L AD2004-AIR-HG-09-H AD2004-AIR-HG-09-L AD2004-AIR-HG-10-H AD2004-AIR-HG-10-L AD2004-BKGA-HG-01-H AD2004-BKGA-HG-01-L Fblank	Mercury	None	P	Method blanks
BKGA-HG-01-H	AD2004-AIR-HG-01-H AD2004-AIR-HG-01-L AD2004-AIR-HG-02-H AD2004-AIR-HG-02-L AD2004-AIR-HG-03-H AD2004-AIR-HG-03-L AD2004-AIR-HG-04-H AD2004-AIR-HG-04-L AD2004-AIR-HG-24-H AD2004-AIR-HG-24-L AD2004-AIR-HG-05-H AD2004-AIR-HG-05-L AD2004-AIR-HG-06-H AD2004-AIR-HG-06-L AD2004-AIR-HG-07-H AD2004-AIR-HG-07-L AD2004-AIR-HG-08-H AD2004-AIR-HG-08-L AD2004-AIR-HG-09-H AD2004-AIR-HG-09-L AD2004-AIR-HG-10-H AD2004-AIR-HG-10-L AD2004-BKGA-HG-01-H AD2004-BKGA-HG-01-L Fblank	Mercury	None	P	Laboratory control samples

Fort Totten
Mercury - Laboratory Blank Data Qualification Summary - SDG BKGA-HG-01-H

No Sample Data Qualified in this SDG

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Mercury - Field Blank Data Qualification Summary - SDG BKGA-HG-01-H

No Sample Data Qualified in this SDG

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKGA-HG-01-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: BKGA-HG-01-H

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 43.9__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.57	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKGA-HG-01-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: BKGA-HG-01-L

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 43.2__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.58	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-01-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-01-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 45.1__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.55	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

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EPA SAMPLE NO.

HG-02-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-02-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 41.7__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.60	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

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EPA SAMPLE NO.
HG-03-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-03-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 44.2__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.57	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

HG-04-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-04-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 46.1__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.54	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-05-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-05-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 41.8__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.60	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-06-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-06-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 46.3__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.54	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

HG-07-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-07-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 37.7__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.66	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts:_____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-08-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-08-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 41.4__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.60	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-09-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-09-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 42.5__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.59	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

HG-10-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-10-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 19.2__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.30	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

HG-24-H

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-24-H____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 46.4__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.54	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

A 6/04

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-24-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-24-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 41.4__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.60	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-10-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-10-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 39.4__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.63	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-09-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-09-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 44.6__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.56	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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9/04

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-08-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-08-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 42.3__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.59	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-07-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-07-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 42.7__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.59	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

HG-06-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-06-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 40.8__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.61	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-05-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-05-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 44.2__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.57	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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9/04

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-04-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-04-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 44.2__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.57	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts:_____

Comments:

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9/04

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-03-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-03-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 45.1__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.55	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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7/04

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-02-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: ____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-02-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 39.3__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.64	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
HG-01-L

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: HG-01-L____

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 41.0__

Concentration Units (ug/L or mg/Kg dry weight): UG/M3

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.61	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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9/04

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: USA_0401 SAS No.: _____ SDG No.: BKGA-HG-01-H

Matrix (soil/water): AIR___ Lab Sample ID: FIELD_BLANK

Level (low/med): LOW___ Date Received: 06/28/04

Air Volume(L): 0.0___

Concentration Units (ug/L or mg/Kg dry weight): UG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.025	U		AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Totten

Collection Date: August 5, 2004

LDC Report Date: September 21, 2004

Matrix: Soil

Parameters: Mercury

Validation Level: EPA Level IV

Laboratory: TriMatrix Laboratories, Inc.

Sample Delivery Group (SDG): 36620-2

Sample Identification

Ad2004-PS-01

Introduction

This data review covers one soil sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 7471A for Mercury.

This review follows the NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5), USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio (March 1979), 40CFR Part 792 on Good Laboratory Practice Standards, and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the method stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable.

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Mercury	0.008 ug/L	All samples in SDG 36620-2

Sample concentrations were compared to the maximum contaminant concentrations detected in the ICB/CCB/PBs. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

No field blanks were identified in this SDG.

IV. ICP Interference Check Sample (ICS) Analysis

ICP Check sample analyses were not required by the method.

V. Matrix Spike Analysis

Matrix spike (MS) analyses were reviewed for each matrix as applicable with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 36620-2	Mercury	No MS associated with these samples.	MS required.	None	P

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 36620-2	Mercury	No DUP associated with these samples.	DUP required.	None	P

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standard (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not required by the method.

XI. Sample Result Verification

All sample result verifications met validation criteria.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

Fort Totten
Mercury - Data Qualification Summary - SDG 36620-2

SDG	Sample	Analyte	Flag	A or P	Reason
36620-2	Ad2004-PS-01	Mercury	None	P	Matrix spike analysis
36620-2	Ad2004-PS-01	Mercury	None	P	Duplicate sample analysis

Fort Totten
Mercury - Laboratory Blank Data Qualification Summary - SDG 36620-2

No Sample Data Qualified in this SDG

Fort Totten
Mercury - Field Blank Data Qualification Summary - SDG 36620-2

No Sample Data Qualified in this SDG

ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 08/05/04 @ 15:30
Sampler: V. Griffin
Received: 08/07/04 @ 08:50

Submittal #: **36620-2**
Submittal: August 4, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- PS-01**
Sample #: **367348**
Matrix: Solid Waste

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Mercury, Total	6.25	1.0	0.0770	mg/kg	08/10/04	MSG	USEPA-7471A

End of Analytical Report

9/29/04

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Individual sample results relate only to the sample tested.
5560 Corporate Exchange Court SE • Grand Rapids, MI 49512 • (616) 975-4500 • Fax (616) 942-7463

LDC #: 12478A4
SDG #: 36620-2
Laboratory: TriMatrix Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 9/20/04
Page: 1 of 1
Reviewer: MH
2nd Reviewer: [illegible]

METHOD: Mercury (EPA SW 846 Method 7471A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/5/04
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	N	not required
V.	Matrix Spike Analysis	N	3 no MS / Dup. none /D
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS/LCSD
VIII.	Internal Standard (ICP-MS)	N	3 not utilized
IX.	Furnace Atomic Absorption QC	N	
X.	ICP Serial Dilution	N	not required
XI.	Sample Result Verification	A	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: Evil

1	Ad2004-PS-01	11		21		31	
2	PB	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 12478A4
SDG #: 36620-2

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: MD
2nd Reviewer: [illegible]

Method: Metals (EPA SW 846 Method 6010/7000/6020) 4

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury and 85-115% for cyanide) QC limits?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
Was a midrange cyanide standard distilled?			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. ICP Interference Check Sample				
Were ICP interference check samples performed daily?			✓	
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?			✓	
IV. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.		✓		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.			✓	
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.			✓	
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			
VI. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients ≥ 0.995?			✓	
Do all applicable analysies have duplicate injections?			✓	

LDC #: 19478A4
SDG #: 36620-2

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: MV
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%?			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
VII. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the IDL?			✓	
Were all percent differences (%Ds) ≤ 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
VIII. Internal Standards (EPA SW 846 Method 6020)				
Were all the percent recoveries (%R) within the 30-120% of the intensity of the internal standard in the associated initial calibration?			✓	
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XIII. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 12478A4
SDG #: 36620

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: MG
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 66.7X
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* (ug/L)	Blank Action Limit	Sample Identification										
Al															Al
Sb					No	Samples qualified									Sb
As															As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb															Pb
Mg															Mg
Mn															Mn
Hg			0.008	0.017											Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 12478A4
SDG #: 366v02

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: MD
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Initial calibration)						
-	GFAA (Initial calibration)						
ICV	CVAA (Initial calibration)	Hg	2.02	2.0	101	101	Y
	ICP (Continuing calibration)						
	GFAA (Continuing calibration)						
CCV	CVAA (Continuing calibration)	Hg	1.93	2.0	96	97	Y
	Cyanide (Initial calibration)						
	Cyanide (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 12478A4
SDG #: 36620-2

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: MM
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recaluculated using the following formula:

$$\%R = \frac{Found}{True} \times 100$$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$

Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
MB	ICP interferance check						
LCS	Laboratory control sample	Hg	0.342	0.33	104	104	Y
MS	Matrix spike		(SSR-SR)				
D	Duplicate						
	ICP serial dilution						

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14784A4
SDG #: 36620-2

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: MV
2nd reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for _____ were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)(\%S)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor
%S = Decimal percent solids

Recalculation:

From the raw data 6.25-4.3 mg/kg
= 6.454 mg/kg

Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
1	Hg	6.25	6.25	Y

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Totten

Collection Date: August 4, 2004

LDC Report Date: September 29, 2004

Matrix: Water

Parameters: Semivolatiles

Validation Level: EPA Level IV

Laboratory: TriMatrix Laboratories, Inc.

Sample Delivery Group (SDG): 36620-2

Sample Identification

Ad2004-GW-MW4R-01
Ad2004-GW-MW4R-02

Introduction

This data review covers 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5), USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio (March 1979), 40CFR Part 792 on Good Laboratory Practice Standards, and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 20.5% for each individual compound and less than or equal to 100.0% for selected compounds.

A curve fit, based on the initial calibration, was established for quantitation for selected compounds. The coefficient of determination (r^2) was greater than or equal to 0.990 with the following exceptions:

Date	Compound	r^2	Associated Samples	Flag	A or P
8/10/04	Indeno(1,2,3-cd)pyrene	0.989	All samples in SDG 36620-2	J (all detects) UJ (all non-detects)	A

Average relative response factors (RRF) for all semivolatile target compounds were within the QC limits.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for each individual compound and less than or equal to 100.0% for selected compounds.

All of the continuing calibration RRF values were within the QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
98153-110-MB	8/10/04	4-Chloro-3-methylphenol Bis(2-ethylhexyl)phthalate Butylbenzylphthalate Diethylphthalate	0.180 ug/L 1.10 ug/L 0.25 ug/L 0.0860 ug/L	All samples in SDG 36620-2

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
Ad2004-GW-MW4R-01	4-Chloro-3-methylphenol Bis(2-ethylhexyl)phthalate Diethylphthalate	0.33 ug/L 1.2 ug/L 0.16 ug/L	1.0U ug/L 5.0U ug/L 1.0U ug/L
Ad2004-GW-MW4R-02	4-Chloro-3-methylphenol Bis(2-ethylhexyl)phthalate Diethylphthalate	0.49 ug/L 1.3 ug/L 0.21 ug/L	1.0U ug/L 5.0U ug/L 1.0U ug/L

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 36620-2	All TCL compounds	No MS/MSD associated with these samples.	MS/MSD required.	None	P

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

Samples Ad2004-GW-MW4R-01 and Ad2004-GW-MW4R-02 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	Ad2004-GW-MW4R-01	Ad2004-GW-MW4R-02	
4-Chloro-3-methylphenol	0.33	0.49	39
Benzo(a)anthracene	1.0U	0.12	200
Benzo(a)pyrene	1.0U	0.14	200
Benzo(b)fluoranthene	0.063	0.20	104
Benzo(g,h,i)perylene	1.0U	0.062	200

Compound	Concentration (ug/L)		RPD
	Ad2004-GW-MW4R-01	Ad2004-GW-MW4R-02	
Benzo(k)fluoranthene	1.0U	0.080	200
Bis(2-ethylhexyl)phthalate	1.2	1.3	8
Chrysene	0.038	0.15	119
Diethylphthalate	0.16	0.21	27
Fluoranthene	0.10	0.33	107
Indeno(1,2,3-cd)pyrene	1.0U	0.075	200
Phenanthrene	1.0U	0.11	200
Pyrene	0.094	0.28	99

Fort Totten
Semivolatiles - Data Qualification Summary - SDG 36620-2

SDG	Sample	Compound	Flag	A or P	Reason
36620-2	Ad2004-GW-MW4R-01 Ad2004-GW-MW4R-02	Indeno(1,2,3-cd)pyrene	J (all detects) UJ (all non-detects)	A	Initial calibration (r^2)
36620-2	Ad2004-GW-MW4R-01 Ad2004-GW-MW4R-02	All TCL compounds	None	P	Matrix spike/Matrix spike duplicates

Fort Totten
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 36620-2

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
36620-2	Ad2004-GW-MW4R-01	4-Chloro-3-methylphenol Bis(2-ethylhexyl)phthalate Diethylphthalate	1.0U ug/L 5.0U ug/L 1.0U ug/L	A
36620-2	Ad2004-GW-MW4R-02	4-Chloro-3-methylphenol Bis(2-ethylhexyl)phthalate Diethylphthalate	1.0U ug/L 5.0U ug/L 1.0U ug/L	A

Fort Totten
Semivolatiles - Field Blank Data Qualification Summary - SDG 36620-2

No Sample Data Qualified in this SDG

TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	08/04/04 @ 15:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	08/07/04 @ 08:50
		Prepared:	08/10/04 by DJM
Submittal #:	**36620-2**	Prep. Method:	USEPA-3510C
Submittal:	August 4, 2004 Sampling Event	Analyzed:	08/11/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- GW-MW4R-01**	QC Batch:	98153 -110
Sample #:	**367345**	Anal. Batch:	219946
Matrix:	Ground Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.0407
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.0373
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.0254
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.0329
95-95-4	2,4,5-Trichlorophenol	ND	1.0	0.0501
88-06-2	2,4,6-Trichlorophenol	ND	1.0	0.0546
120-83-2	2,4-Dichlorophenol	ND	1.0	0.0440
105-67-9	2,4-Dimethylphenol	ND	1.0	0.0920
51-28-5	2,4-Dinitrophenol	ND	1.0	0.0336
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.0303
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.0467
91-58-7	2-Chloronaphthalene	ND	1.0	0.0404
95-57-8	2-Chlorophenol	ND	1.0	0.0826
91-57-6	2-Methylnaphthalene	ND	1.0	0.0468
95-48-7	2-Methylphenol	ND	1.0	0.0336
88-74-4	2-Nitroaniline	ND	1.0	0.0324
88-75-5	2-Nitrophenol	ND	1.0	0.0433
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.292
99-09-2	3-Nitroaniline	ND	1.0	0.0312
534-52-1	4,6-Dinitro-2-Methylphenol	ND	1.0	0.0247
101-55-3	4-Bromophenyl Phenylether	ND	1.0	0.0423
59-50-7	**4-Chloro-3-Methylphenol**	**0.33 J** 1.0 U	1.0	0.0685
106-47-8	4-Chloroaniline	ND	1.0	0.0361
7005-72-3	4-Chlorophenylphenyl-Ether	ND	1.0	0.0380
106-44-5	4-Methylphenol	ND	1.0	0.0349
100-01-6	4-Nitroaniline	ND	1.0	0.0690
100-02-7	4-Nitrophenol	ND	1.0	0.0571
83-32-9	Acenaphthene	ND	1.0	0.0368
208-96-8	Acenaphthylene	ND	1.0	0.0324
62-53-3	Aniline	ND	5.0	0.259
120-12-7	Anthracene	ND	1.0	0.0357

9/29/04

000080

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	08/04/04 @ 15:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	08/07/04 @ 08:50
		Prepared:	08/10/04 by DJM
Submittal #:	**36620-2**	Prep. Method:	USEPA-3510C
Submittal:	August 4, 2004 Sampling Event	Analyzed:	08/11/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- GW-MW4R-01**	QC Batch:	98153 -110
Sample #:	**367345**	Anal. Batch:	219946
Matrix:	Ground Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	Benzo (a) Anthracene	ND	1.0	0.0397
50-32-8	Benzo (a) Pyrene	ND	1.0	0.0504
205-99-2	**Benzo (b) Fluoranthene**	**0.063 J**	1.0	0.0457
191-24-2	Benzo (g,h,i,) Perylene	ND	1.0	0.0495
207-08-9	Benzo (k) Fluoranthene	ND	1.0	0.0430
111-44-4	Bis (2-Chloroethyl) Ether	ND	1.0	0.0656
108-60-1	Bis (2-Chloroisopropyl)-Ether	ND	1.0	0.0419
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**1.2 J** 5.0u	5.0	0.171
111-91-1	Bis (2-Chloroethoxy)-Methane	ND	1.0	0.0416
85-68-7	Butyl Benzyl Phthalate	ND	5.0	0.150
86-74-8	Carbazole	ND	1.0	0.0335
218-01-9	**Chrysene**	**0.038 J**	1.0	0.0298
53-70-3	Dibenzo (a,h) Anthracene	ND	1.0	0.0453
132-64-9	Dibenzofuran	ND	1.0	0.0348
84-66-2	**Diethylphthalate**	**0.16 J** 1.0u	1.0	0.0709
131-11-3	Dimethylphthalate	ND	1.0	0.0366
84-74-2	Di-n-Butylphthalate	ND	10	3.70
117-84-0	Di-n-Octylphthalate	ND	1.0	0.0761
206-44-0	**Fluoranthene**	**0.10 J**	1.0	0.0153
86-73-7	Fluorene	ND	1.0	0.0264
118-74-1	Hexachlorobenzene	ND	1.0	0.0396
87-68-3	Hexachlorobutadiene	ND	1.0	0.0432
77-47-4	Hexachlorocyclopentadiene	ND	1.0	0.0366
67-72-1	Hexachloroethane	ND	1.0	0.0637
193-39-5	Indeno (1,2,3-cd) Pyrene	ND UJ	1.0	0.0417
78-59-1	Isophorone	ND	1.0	0.0457
91-20-3	Naphthalene	ND	1.0	0.0371
98-95-3	Nitrobenzene	ND	1.0	0.0472
621-64-7	N-Nitrosodi-n-Propylamine	ND	1.0	0.0218
86-30-6	N-Nitroso-di-Phenylamine	ND	1.0	0.0367

9/29/04

000081

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	08/04/04 @ 15:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	08/07/04 @ 08:50
		Prepared:	08/10/04 by DJM
Submittal #:	**36620-2**	Prep. Method:	USEPA-3510C
Submittal:	August 4, 2004 Sampling Event	Analyzed:	08/11/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- GW-MW4R-01**	QC Batch:	98153 -110
Sample #:	**367345**	Anal. Batch:	219946
Matrix:	Ground Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	ND	1.0	0.0670
85-01-8	Phenanthrene	ND	1.0	0.0360
108-95-2	Phenol	ND	1.0	0.0853
129-00-0	**Pyrene**	**0.094 J**	1.0	0.0213

9/3/04

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	08/04/04 @ 15:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	08/07/04 @ 08:50
		Prepared:	08/10/04 by DJM
Submittal #:	**36620-2**	Prep. Method:	USEPA-3510C
Submittal:	August 4, 2004 Sampling Event	Analyzed:	08/11/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- GW-MW4R-02**	QC Batch:	98153 -110
Sample #:	**367346**	Anal. Batch:	219946
Matrix:	Ground Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.0407
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.0373
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.0254
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.0329
95-95-4	2,4,5-Trichlorophenol	ND	1.0	0.0501
88-06-2	2,4,6-Trichlorophenol	ND	1.0	0.0546
120-83-2	2,4-Dichlorophenol	ND	1.0	0.0440
105-67-9	2,4-Dimethylphenol	ND	1.0	0.0920
51-28-5	2,4-Dinitrophenol	ND	1.0	0.0336
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.0303
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.0467
91-58-7	2-Chloronaphthalene	ND	1.0	0.0404
95-57-8	2-Chlorophenol	ND	1.0	0.0826
91-57-6	2-Methylnaphthalene	ND	1.0	0.0468
95-48-7	2-Methylphenol	ND	1.0	0.0336
88-74-4	2-Nitroaniline	ND	1.0	0.0324
88-75-5	2-Nitrophenol	ND	1.0	0.0433
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.292
99-09-2	3-Nitroaniline	ND	1.0	0.0312
534-52-1	4,6-Dinitro-2-Methylphenol	ND	1.0	0.0247
101-55-3	4-Bromophenyl Phenylether	ND	1.0	0.0423
59-50-7	**4-Chloro-3-Methylphenol**	**0.49 J** 1.04	1.0	0.0685
106-47-8	4-Chloroaniline	ND	1.0	0.0361
7005-72-3	4-Chlorophenylphenyl-Ether	ND	1.0	0.0380
106-44-5	4-Methylphenol	ND	1.0	0.0349
100-01-6	4-Nitroaniline	ND	1.0	0.0690
100-02-7	4-Nitrophenol	ND	1.0	0.0571
83-32-9	Acenaphthene	ND	1.0	0.0368
208-96-8	Acenaphthylene	ND	1.0	0.0324
62-53-3	Aniline	ND	5.0	0.259
120-12-7	Anthracene	ND	1.0	0.0357

000095

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	08/04/04 @ 15:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	08/07/04 @ 08:50
		Prepared:	08/10/04 by DJM
Submittal #:	**36620-2**	Prep. Method:	USEPA-3510C
Submittal:	August 4, 2004 Sampling Event	Analyzed:	08/11/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- GW-MW4R-02**	QC Batch:	98153 -110
Sample #:	**367346**	Anal. Batch:	219946
Matrix:	Ground Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.12 J**	1.0	0.0397
50-32-8	**Benzo (a) Pyrene**	**0.14 J**	1.0	0.0504
205-99-2	**Benzo (b) Fluoranthene**	**0.20 J**	1.0	0.0457
191-24-2	**Benzo (g,h,i,) Perylene**	**0.062 J**	1.0	0.0495
207-08-9	**Benzo (k) Fluoranthene**	**0.080 J**	1.0	0.0430
111-44-4	Bis (2-Chloroethyl) Ether	ND	1.0	0.0656
108-60-1	Bis (2-Chloroisopropyl)-Ether	ND	1.0	0.0419
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**1.3 J** 5.0u	5.0	0.171
111-91-1	Bis (2-Chloroethoxy)-Methane	ND	1.0	0.0416
85-68-7	Butyl Benzyl Phthalate	ND	5.0	0.150
86-74-8	Carbazole	ND	1.0	0.0335
218-01-9	**Chrysene**	**0.15 J**	1.0	0.0298
53-70-3	Dibenzo (a,h) Anthracene	ND	1.0	0.0453
132-64-9	Dibenzofuran	ND	1.0	0.0348
84-66-2	**Diethylphthalate**	**0.21 J** 1.0u	1.0	0.0709
131-11-3	Dimethylphthalate	ND	1.0	0.0366
84-74-2	Di-n-Butylphthalate	ND	10	3.70
117-84-0	Di-n-Octylphthalate	ND	1.0	0.0761
206-44-0	**Fluoranthene**	**0.33 J**	1.0	0.0153
86-73-7	Fluorene	ND	1.0	0.0264
118-74-1	Hexachlorobenzene	ND	1.0	0.0396
87-68-3	Hexachlorobutadiene	ND	1.0	0.0432
77-47-4	Hexachlorocyclopentadiene	ND	1.0	0.0366
67-72-1	Hexachloroethane	ND	1.0	0.0637
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.075 J** J	1.0	0.0417
78-59-1	Isophorone	ND	1.0	0.0457
91-20-3	Naphthalene	ND	1.0	0.0371
98-95-3	Nitrobenzene	ND	1.0	0.0472
621-64-7	N-Nitrosodi-n-Propylamine	ND	1.0	0.0218
86-30-6	N-Nitroso-di-Phenylamine	ND	1.0	0.0367

9/15/04 000096

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	08/04/04 @ 15:20
Project:	Baltimbre District	Sampler:	V. Griffin
	Fort Totten	Received:	08/07/04 @ 08:50
		Prepared:	08/10/04 by DJM
Submittal #:	**36620-2**	Prep. Method:	USEPA-3510C
Submittal:	August 4, 2004 Sampling Event	Analyzed:	08/11/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- GW-MW4R-02**	QC Batch:	98153 -110
Sample #:	**367346**	Anal. Batch:	219946
Matrix:	Ground Water	Percent Solids:	n/a
Uhit:	ug/L	Dilution Factor:	1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	ND	1.0	0.0670
85-01-8	**Phenanthrene**	**0.11 J**	1.0	0.0360
108-95-2	Phenol	ND	1.0	0.0853
129-00-0	**Pyrene**	**0.28 J**	1.0	0.0213

8/20/04

000097

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LDC #: 12478A2 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/28/04
SDG #: 36620-2 Level IV Page: 1 of 1
Laboratory: TriMatrix Laboratories, Inc. Reviewer: JVG
2nd Reviewer: [signature]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/04/04
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	% RSD ≤ 20.5/100 % (selected cpds), r^2
IV.	Continuing calibration	A	% D ≤ 25/100 % (selected cpds)
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	No MS/MSD (None/P)
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 1, 2
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Water

1	Ad2004-GW-MW4R-01	11		21		31	
2	Ad2004-GW-MW4R-02	12		22		32	
3	~~2[illegible] EB~~ JVG	13		23		33	
4	98153-110 MB	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 12478A2
SDG #: 34620-2

VALIDATION FINDINGS CHECKLIST

Page: 1 of 3
Reviewer: JVC
2nd Reviewer: [signature]

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	✓			$r^2 \geq 0.99$
Did the initial calibration meet the curve fit acceptance criteria?		✓		
Were all percent relative standard deviations (%RSD) $\leq$ 30% and relative response factors (RRF) $\geq$ 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) $\leq$ 25% and relative response factors (RRF) $\geq$ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.		✓		
Was a MS/MSD analyzed every 20 samples of each matrix?		✓		

LDC #: 12478Av
SDG #: 76620-2

VALIDATION FINDINGS CHECKLIST

Reviewer: JR
2nd Reviewer: Q

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	•		✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		✓		
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

LDC #: 12478A2
SDG #: 36620-2

VALIDATION FINDINGS CHECKLIST

Reviewer: JVG
2nd Reviewer: CJ

Validation Area	Yes	No	NA	Findings/Comments
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XVII. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

A. Phenol**	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol**	III. Benzo(a)pyrene**
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol**	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene**	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol*	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene**	T. 4-Chloroaniline	II. 4-Nitrophenol*	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene**	JJ. Dibenzofuran	YY. Fluoranthene**	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol**	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene*	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine*	Y. 2,4,6-Trichlorophenol**	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT.
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)**	FFF. Di-n-octylphthalate**	UUU.
N. 2-Nitrophenol**	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 12478A2
SDG #: 36620-2
METHOD: GC/MS BNA (EPA SW 846 Method 8270)

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Reviewer: JVC
2nd Reviewer: [illegible]

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- (Y) N N/A — Did the laboratory conduct an acceptable 5 point calibration prior to sample analysis?
- (Y) N N/A — Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
- (Y) N N/A — Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation? $r^2 \geq 0.99$
- (Y) N N/A — Did the initial calibration meet the acceptance criteria?
- Y (N) N/A — Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: ≤30.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	8/10/04	ICC0810	JJJ	0.989 (≥0.99)		All + Blk	J/UJ/A

LDC #: 12478AV
SDG #: 36620-2

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a method blank analyzed for each matrix?
(Y) N N/A Was a method blank analyzed for each concentration preparation level?
(Y) N N/A Was a method blank associated with every sample?
(Y) N N/A Was the blank contaminated? If yes, please see qualification below.

Blank extraction date: 8/10/04 **Blank analysis date:** 8/11/04
Conc. units: ug/L **Associated Samples:** All

Compound	Blank ID	Sample Identification								
	98153-110-MB	1	2							
V	0.180	0.33 /1.0U	0.49 /1.0U							
EEE	1.10	1.2 /5.0U	1.3 /5.0U							
AAA	0.25									
LL	0.0860	0.16 /1.0U	0.21 /1.0U							

Blank extraction date: _____ **Blank analysis date:** _____
Conc. units: _____ **Associated Samples:** _____

Compound	Blank ID	Sample Identification								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC#: 12478A2
SDG#: 36620-2

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: JVC
2nd Reviewer: ok

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD	
	1	2		
4-Chloro-3-Methylphenol	0.33	0.49	39	
Benzo(a)anthracene	1.0U	0.12	200	
Benzo(a)pyrene	1.0U	0.14	200	
Benzo(b)fluoranthene	0.063	0.20	104	
Benzo(g,h,i)perylene	1.0U	0.062	200	
Benzo(k)fluoranthene	1.0U	0.080	200	
Bis(2-ethylhexyl)phthalate	1.2	1.3	8	
Chrysene	0.038	0.15	119	
Diethylphthalate	0.16	0.21	27	
Fluoranthene	0.10	0.33	107	
Indeno(1,2,3-cd)pyrene	1.0U	0.075	200	
Phenanthrene	1.0U	0.11	200	
Pyrene	0.094	0.28	99	

LDC #: 12478A2
SDG #: 36620-2

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard
S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (0.5 std)	Recalculated RRF (0.5 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	8/10/04	Phenol (1st internal standard)	1.804	1.804	2.300	2.300	14.8	14.8
	ICC0810		Naphthalene (2nd internal standard)	1.648	1.648	1.944	1.944	7.8	7.8
			Fluorene (3rd internal standard) *	0.970	0.970	1.284	1.284	15.5	15.5
			Pentachlorophenol (4th internal standard)	0.199	0.199	0.231	0.231	11.5	11.5
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.675	1.675	1.672	1.672	11.4	11.4
			Benzo(a)pyrene (6th internal standard)	0.975	0.975	1.199	1.199	14.1	14.1
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

* See r^2 calculation verification.

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC # 12478A2
SDG# 36620-2

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: JVC
2nd Reviewer: [illegible]

METHOD:EPA SW-846 Method 8270C

Parameter: Fluorene

Compound			Y	X	X^2	IS	Compound	Conc.	RF
Fluorene		Compound	Area/IS Area	Amount Injected		Area	Area	(ppm)	
Date	Point 1		0.0970	0.50	0.25	1921643	186307	0.50	0.970
08/10/2004	Point 2	Fluorene	0.2192	1.00	1.00	1676581	367468	1.00	1.096
	Point 3		0.4771	2.00	4.00	1731086	825961	2.00	1.193
	Point 4	(IS=D10-Acenaphthene)	1.1917	5.00	25.00	1843710	2197228	5.00	1.192
	Point 5		2.7929	10.00	100.00	1731691	4836479	10.00	1.396
	Point 6		4.5882	15.00	225.00	1515815	6954874	15.00	1.529
	Point 7		5.7941	20.00	400.00	1696292	9828542	20.00	1.449
	Point 8		7.2549	25.00	625.00	1931792	14015035	25.00	1.451

	Regression Output:	Recalculated:		Reported:			
Constant			-1.3126E-001	c=	-1.318347E-001		
Std Err of Y Est			0.14				
R Squared			0.9981	r^2 =	0.999		
No. of Observations			8.00				
Degrees of Freedom			5.00				
X Coefficient(s)		3.03892E-001	-2.82709E-004	a=	3.039173E-001	b=	-2.83886E-004
Std Err of Coef.		0.02276	9.193E-004				

LDC #: 12478A7
SDG #: 36620-2

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	10C0811A	8/11/04	Phenol (1st internal standard)	2.300	2.346	2.346	2.00	2.00
			Naphthalene (2nd internal standard)	1.944	1.995	1.995	2.61	2.60
			Fluorene (3rd internal standard)	1.284	1.296	1.296	0.90	0.92
			Pentachlorophenol (4th internal standard)	0.231	0.243	0.243	5.42	5.34
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.077	1.737	1.737	3.89	3.89
			Benzo(a)pyrene (6th internal standard)	1.199	1.238	1.238	3.29	3.25
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 12478A2
SDG #: 36620-2

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer: ✓

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	10	5.28	53	53	6
2-Fluorobiphenyl	↓	6.26	63	63	↓
Terphenyl-d14	↓	7.18	72	72	↓
Phenol-d5	20	4.38	22	22	↓
2-Fluorophenol	↓	7.01	35	35	↓
2,4,6-Tribromophenol	↓	12.40	62	62	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 12478A2
SDG #: 36620-2

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 98153-110 LCS/D

Compound	Spike Added (ug/L)		Spike Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol	10	10	3.36	4.08	34	34	41	41	-	19
2-Chlorophenol			4.86	6.00	49	49	60	60	-	21
1,4-Dichlorobenzene			5.83	7.02	58	58	70	70	-	19
N-Nitroso-di-n-propylamine			6.37	7.47	64	64	74	74	-	15
1,2,4-Trichlorobenzene			6.53	7.63	65	65	76	76	-	16
4-Chloro-3-methylphenol			8.30	8.55	83	83	86	86	-	3
Acenaphthene			6.79	7.18	68	68	72	72	-	6
4-Nitrophenol			3.66	3.57	37	37	36	36	-	2
2,4-Dinitrotoluene			8.08	8.66	81	81	87	87	-	7
Pentachlorophenol			8.31	8.87	83	83	88	88	-	6
Pyrene	↓	↓	8.53	8.69	85	85	87	87	-	2

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 12478 A2
SDG #: 36620-2

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 1 , GCC :

Conc. = $\frac{(45855\ ng)(5)(1\ mL)(1000\ uL)(\quad)}{(2876878\ uL)(1.272)(1010\ mL)(1\ ml)(\quad)}$

= 0.062 ng/ml

≈ 0.062 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

RECALC.2S

QUALITY CONTROL REPORT
METHOD PREPARATION BLANK

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom
Test Date: 08/11/04
Analytical Batch No: 219946
QC Batch No: 98153-110
Units: ug/L

Parameter	Blank Concentration		Quantitation Limit
1,2,4-Trichlorobenzene	ND	U	2.0
1,2-Dichlorobenzene	ND	U	1.0
1,3-Dichlorobenzene	ND	U	1.0
1,4-Dichlorobenzene	ND	U	1.0
2,4,5-Trichlorophenol	ND	U	1.0
2,4,6-Trichlorophenol	ND	U	1.0
2,4-Dichlorophenol	ND	U	1.0
2,4-Dimethylphenol	ND	U	1.0
2,4-Dinitrophenol	ND	U	1.0
2,4-Dinitrotoluene	ND	U	1.0
2,6-Dinitrotoluene	ND	U	1.0
2-Chloronaphthalene	ND	U	1.0
2-Chlorophenol	ND	U	1.0
2-Methylnaphthalene	ND	U	1.0
2-Methylphenol	ND	U	1.0
2-Nitroaniline	ND	U	1.0
2-Nitrophenol	ND	U	1.0
3,3'-Dichlorobenzidine	ND	U	5.0
3-Nitroaniline	ND	U	1.0
4,6-Dinitro-2-Methylphenol	ND	U	1.0
4-Bromophenyl Phenylether	ND	U	1.0
4-Chloro-3-Methylphenol	0.180	J	1.0
4-Chloroaniline	ND	U	1.0
4-Chlorophenylphenyl-Ether	ND	U	1.0
4-Methylphenol	ND	U	1.0
4-Nitroaniline	ND	U	1.0
4-Nitrophenol	ND	U	1.0
Acenaphthene	ND	U	1.0
Acenaphthylene	ND	U	1.0
Aniline	ND	U	5.0
Anthracene	ND	U	1.0
Benzo (a) Anthracene	ND	U	1.0
Benzo (a) Pyrene	ND	U	1.0
Benzo (b) Fluoranthene	ND	U	1.0
Benzo (g,h,i,) Perylene	ND	U	1.0
Benzo (k) Fluoranthene	ND	U	1.0

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QUALITY CONTROL REPORT
METHOD PREPARATION BLANK

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom
Analytical Batch No: 219946
QC Batch No: 98153-110
Units: ug/L

Test Date: 08/11/04

Parameter	Blank Concentration		Quantitation Limit
Bis (2-Chloroethyl) Ether	ND	U	1.0
Bis (2-Chloroisopropyl)-Ether	ND	U	1.0
Bis (2-ethylhexyl)-Phthalate	**1.10**	**J**	5.0
Bis (2-Chloroethoxy)-Methane	ND	U	1.0
Butyl Benzyl Phthalate	**0.250**	**J**	5.0
Carbazole	ND	U	1.0
Chrysene	ND	U	1.0
Dibenzo (a,h) Anthracene	ND	U	1.0
Dibenzofuran	ND	U	1.0
Diethylphthalate	**0.0860**	**J**	1.0
Dimethylphthalate	ND	U	1.0
Di-n-Butylphthalate	ND	U	10
Di-n-Octylphthalate	ND	U	1.0
Fluoranthene	ND	U	1.0
Fluorene	ND	U	1.0
Hexachlorobenzene	ND	U	1.0
Hexachlorobutadiene	ND	U	1.0
Hexachlorocyclopentadiene	ND	U	1.0
Hexachloroethane	ND	U	1.0
Indeno (1,2,3-cd) Pyrene	ND	U	1.0
Isophorone	ND	U	1.0
Naphthalene	ND	U	1.0
Nitrobenzene	ND	U	1.0
N-Nitrosodi-n-Propylamine	ND	U	1.0
N-Nitroso-di-Phenylamine	ND	U	1.0
Pentachlorophenol	ND	U	1.0
Phenanthrene	ND	U	1.0
Phenol	ND	U	1.0
Pyrene	ND	U	1.0

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Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Totten

Collection Date: June 26, 2004

LDC Report Date: August 10, 2004

Matrix: Air

Parameters: Mercury

Validation Level: EPA Level IV

Laboratory: Galson Laboratories

Sample Delivery Group (SDG): L106602

Sample Identification

AD2004-AIR-HG-04-L
Fblank

Introduction

This data review covers 2 air samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per NIOSH Method 6009 for Mercury.

This review follows the NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5), USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio (March 1979), 40CFR Part 792 on Good Laboratory Practice Standards, and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the method stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG L106602	Mercury	One method blank was associated with these samples.	At least three method blank analyses must be performed as required by the method.	None	P

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Sample "Fblank" was identified as a field blank. No mercury was found in this blank.

IV. ICP Interference Check Sample (ICS) Analysis

ICP Check sample analyses were not required by the method.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were not required by the method.

VI. Duplicate Sample Analysis

Matrix duplicate (DUP) analyses were not required by the method.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standard (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not required by the method.

XI. Sample Result Verification

All sample result verifications met validation criteria.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

XIII. Field Duplicates

Samples AD2004-AIR-HG-04-L and AD2004-AIR-HG-04-L (from SDG BKGA-HG-01-H Adirondack Environmental Services, Inc.) were identified as field duplicates. No mercury was detected in any of the samples.

Fort Totten
Mercury - Data Qualification Summary - SDG L106602

SDG	Sample	Analyte	Flag	A or P	Reason
L106602	AD2004-AIR-HG-04-L Fblank	Mercury	None	P	Method blanks

Fort Totten
Mercury - Laboratory Blank Data Qualification Summary - SDG L106602

No Sample Data Qualified in this SDG

Fort Totten
Mercury - Field Blank Data Qualification Summary - SDG L106602

No Sample Data Qualified in this SDG

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LABORATORY ANALYSIS REPORT

Client : USACE-Baltimore
Site : NS
Project No. : Ft. Totten

Date Sampled : 26-JUN-04
Date Received : 30-JUN-04
Date Analyzed : 07-JUL-04

Account No.: 16516
Login No. : L106602

Mercury

Sample ID	Lab ID	Air Vol liter	Total ug	Conc mg/m3
AD2004-AIR-HG-04-L	L106602-1	38.9	<0.06	<0.002
F BLANK	L106602-2	NA	<0.06	NA

Level of quantitation: 0.06 ug
Analytical Method : NIOSH 6009; CVAA
OSHA PEL (TWA) : 0.1 mg/m3
Collection Media : Tube

Submitted by: AP
Approved by : LS
Date : 07-JUL-04
QC by:
NYS DOH # : 11626

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

9704

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Totten

Collection Date: August 4, 2004

LDC Report Date: September 27, 2004

Matrix: Water

Parameters: Semivolatiles

Validation Level: EPA Level IV

Laboratory: Northeast Analytical, Inc.

Sample Delivery Group (SDG): 04080062

Sample Identification

Ad2004-GW-MW4R-03

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5), USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio (March 1979), 40CFR Part 792 on Good Laboratory Practice Standards, and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 20.5% for each individual compound and less than or equal to 100.0% for selected compounds with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
8/18/04	N-Nitrosodimethylamine	44.3	All samples in SDG 04080062	J (all detects) UJ (all non-detects)	A

A curve fit, based on the initial calibration, was established for quantitation for selected compounds. The coefficient of determination (r^2) was greater than or equal to 0.990 with the following exceptions:

Date	Compound	r^2	Associated Samples	Flag	A or P
8/18/04	Benzoic acid 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	0.966 0.982 0.980	All samples in SDG 04080062	J (all detects) UJ (all non-detects)	A

Average relative response factors (RRF) for all semivolatile target compounds were within the QC limits with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
8/18/04	Phenol	0.77696 (≥0.800)	All samples in SDG 04080062	None	P
	2-Chlorophenol	0.73914 (≥0.800)		None	
	Bis(2-chloroethyl) ether	0.34380 (≥0.700)		None	
	1,3-Dichlorobenzene	0.44511 (≥0.600)		None	
	1,4-Dichlorobenzene	0.48781 (≥0.500)		None	
	2-Methylphenol	0.63074 (≥0.700)		None	
	N-Nitroso-di-n-propylamine	0.21712 (≥0.500)		None	
	2-Nitrophenol	0.06897 (≥0.100)		None	
	Bis(2-chloroethoxy)methane	0.21589 (≥0.300)		None	
	2,4-Dichlorophenol	0.10925 (≥0.200)		None	
	1,2,4-Trichlorobenzene	0.13662 (≥0.200)		None	
	2,4,6-Trichlorophenol	0.15407 (≥0.200)		None	
	2,4,5-Trichlorophenol	0.17996 (≥0.200)		None	
	2-Chloronaphthalene	0.41186 (≥0.800)		None	
	Acenaphthylene	0.65641 (≥1.300)		None	
	2,6-Dinitrotoluene	0.11926 (≥0.200)		None	
	Acenaphthene	0.48869 (≥0.800)		None	
	4-Chlorophenyl-phenyl ether	0.25097 (≥0.400)		None	
	Fluorene	0.41648 (≥0.900)		None	
	Phenanthrene	0.37492 (≥0.700)		None	
	Anthracene	0.37625 (≥0.700)		None	
	Fluoranthene	0.38353 (≥0.600)		None	
	Pyrene	0.52648 (≥0.600)		None	
	Benzo(a)anthracene	0.57670 (≥0.800)		None	
	Chrysene	0.46765 (≥0.700)		None	
	Benzo(b)fluoranthene	0.63652 (≥0.700)		None	
	Benzo(k)fluoranthene	0.68153 (≥0.700)		None	
	Benzo(a)pyrene	0.62666 (≥0.700)		None	
	2,4-Dinitrotoluene	0.19958 (≥0.200)		None	
	4-Bromophenyl-phenyl ether	0.09396 (≥0.100)		None	
	Hexachlorobenzene	0.09243 (≥0.100)		None	

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for each individual compound and less than or equal to 100.0% for selected compounds with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
8/20/04	Azobenzene	57.0	All samples in SDG 04080062	J (all detects)	A

All of the continuing calibration RRF values were within the QC limits with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
8/20/04	2-Chlorophenol	0.75893 (≥0.800)	All samples in SDG 04080062	None	P
	Bis(2-chloroethyl)ether	0.35234 (≥0.700)		None	
	1,3-Dichlorobenzene	0.44863 (≥0.600)		None	
	1,4-Dichlorobenzene	0.47217 (≥0.500)		None	
	2-Methylphenol	0.67605 (≥0.700)		None	
	2-Nitrophenol	0.07979 (≥0.100)		None	
	Bis(2-chloroethoxy)methane	0.24244 (≥0.300)		None	
	2,4-Dichlorophenol	0.12341 (≥0.200)		None	
	1,2,4-Trichlorobenzene	0.13098 (≥0.200)		None	
	2,4,6-Trichlorophenol	0.18737 (≥0.200)		None	
	2,4,5-Trichlorophenol	0.18737 (≥0.200)		None	
	2-Chloronaphthalene	0.47635 (≥0.800)		None	
	Acenaphthylene	0.79859 (≥1.300)		None	
	2,6-Dinitrotoluene	0.14001 (≥0.200)		None	
	Acenaphthene	0.58667 (≥0.800)		None	
	4-Chlorophenyl-phenyl ether	0.29968 (≥0.400)		None	
	Fluorene	0.48968 (≥0.900)		None	
	Phenanthrene	0.42012 (≥0.700)		None	
	Anthracene	0.42624 (≥0.700)		None	
	Fluoranthene	0.41616 (≥0.600)		None	
	Pyrene	0.56003 (≥0.600)		None	
	Benzo(a)anthracene	0.53738 (≥0.800)		None	
	Chrysene	0.45901 (≥0.700)		None	
	Benzo(b)fluoranthene	0.68482 (≥0.700)		None	
	Benzo(k)fluoranthene	0.67628 (≥0.700)		None	
	Benzo(a)pyrene	0.62978 (≥0.700)		None	
	N-Nitroso-di-n-propylamine	0.19863 (≥0.500)		None	

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
AH08534BLANK	8/10/04	Bis(2-ethylhexyl)phthalate	2.20 ug/L	All samples in SDG 04080062

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
Ad2004-GW-MW4R-03	Bis(2-ethylhexyl)phthalate	1.68 ug/L	1.68U ug/L

Fort Totten
Semivolatiles - Data Qualification Summary - SDG 04080062

SDG	Sample	Compound	Flag	A or P	Reason
04080062	Ad2004-GW-MW4R-03	N-Nitrosodimethylamine	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
04080062	Ad2004-GW-MW4R-03	Benzoic acid 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	J (all detects) UJ (all non-detects)	P	Initial calibration (r^2)
04080062	Ad2004-GW-MW4R-03	Phenol 2-Chlorophenol Bis(2-chloroethyl) ether 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Methylphenol N-Nitroso-di-n-propylamine 2-Nitrophenol Bis(2-chloroethoxy)methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene Acenaphthylene 2,6-Dinitrotoluene Acenaphthene 4-Chlorophenyl-phenyl ether Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene 2,4-Dinitrotoluene 4-Bromophenyl-phenyl ether Hexachlorobenzene	None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None	P	Initial calibration (RRF)
04080062	Ad2004-GW-MW4R-03	Azobenzene	J (all detects)	A	Continuing calibration (%D)

SDG	Sample	Compound	Flag	A or P	Reason
04080062	Ad2004-GW-MW4R-03	2-Chlorophenol	None	P	Continuing calibration (RRF)
		Bis(2-chloroethyl)ether	None		
		1,3-Dichlorobenzene	None		
		1,4-Dichlorobenzene	None		
		2-Methylphenol	None		
		2-Nitrophenol	None		
		Bis(2-chloroethoxy)methane	None		
		2,4-Dichlorophenol	None		
		1,2,4-Trichlorobenzene	None		
		2,4,6-Trichlorophenol	None		
		2,4,5-Trichlorophenol	None		
		2-Chloronaphthalene	None		
		Acenaphthylene	None		
		2,6-Dinitrotoluene	None		
		Acenaphthene	None		
		4-Chlorophenyl-phenyl ether	None		
		Fluorene	None		
		Phenanthrene	None		
		Anthracene	None		
		Fluoranthene	None		
		Pyrene	None		
		Benzo(a)anthracene	None		
		Chrysene	None		
		Benzo(b)fluoranthene	None		
		Benzo(k)fluoranthene	None		
		Benzo(a)pyrene	None		
		N-Nitroso-di-n-propylamine	None		
04080062	Ad2004-GW-MW4R-03	All TCL compounds	None	P	Matrix spike/Matrix spike duplicates

Fort Totten
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 04080062

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
04080062	Ad2004-GW-MW4R-03	Bis(2-ethylhexyl)phthalate	1.68U ug/L	A

Fort Totten
Semivolatiles - Field Blank Data Qualification Summary - SDG 04080062

No Sample Data Qualified in this SDG

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 04080062	All TCL compounds	No MS/MSD associated with these samples.	MS/MSD required.	None	P

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

FORM 1 US ARMY CORP OF ENGI09-AUG-20

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AD2004-G
W-MW4R-03

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04080062USACE-SC

Matrix: (soil/water) WATER Lab Sample ID: AH08534

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: M3082005

Level: (low/med) LOW Date Received: 08/09/04

% Moisture: not dec. _____ Date Analyzed: 08/20/04

GC Column: DBXLB ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
87-86-5	N-Nitrosodimethylamine	2.63	U UJ
108-95-2	Phenol	1.05	U
111-44-4	Bis(2-chloroethyl)ether	1.05	U
62-53-3	Aniline	1.05	U
95-57-8	2-Chlorophenol	1.05	U
541-73-1	1,3-Dichlorobenzene	1.05	U
106-46-7	1,4-Dichlorobenzene	1.05	U
95-50-1	1,2-Dichlorobenzene	1.05	U
95-48-7	2-Methylphenol	1.05	U
108-60-1	bis(2-Chloroisopropyl)ether	1.05	U
621-64-7	N-Nitroso-di-n-propylamine	1.05	U
106-44-5	4-Methylphenol	1.05	U
67-72-1	Hexachloroethane	1.05	U
98-95-3	Nitrobenzene	1.05	U
78-59-1	Isophorone	1.05	U
88-75-5	2-Nitrophenol	1.05	U
105-67-9	2,4-Dimethylphenol	1.05	U
111-91-1	Bis(2-chloroethoxy)methane	1.05	U
65-85-0	Benzoic Acid	21.1	U UJ
120-83-2	2,4-Dichlorophenol	1.05	U
120-82-1	1,2,4-Trichlorobenzene	1.05	U
91-20-3	Naphthalene	1.05	U
106-47-8	4-Chloroaniline	1.05	U
87-68-3	Hexachlorobutadiene	1.05	U
59-50-7	4-Chloro-3-Methylphenol	1.05	U
91-57-6	2-Methylnaphthalene	1.05	U
77-47-4	Hexachlorocyclopentadiene	1.05	U
88-06-2	2,4,6-Trichlorophenol	1.05	U
95-95-4	2,4,5-Trichlorophenol	1.05	U
91-58-7	2-Chloronaphthalene	1.05	U
88-74-4	2-Nitroaniline	1.05	U
208-96-8	Acenaphthylene	1.05	U
606-20-2	2,6-Dinitrotoluene	2.63	U

9/27/04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AD2004-G
W-MW4R-03

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04080062USACE

Matrix: (soil/water) WATER Lab Sample ID: AH08534

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: M3082005

Level: (low/med) LOW Date Received: 08/09/04

% Moisture: not dec. _____ Date Analyzed: 08/20/04

GC Column: DBXLB ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	1.05	U
83-32-9	Acenaphthene	1.05	U
51-28-5	2,4-Dinitrophenol	1.05	U UJ
132-64-9	Dibenzofuran	1.05	U
100-02-7	4-Nitrophenol	1.05	U
121-14-2	2,4-Dinitrotoluene	1.05	U
86-73-7	Fluorene	1.05	U
131-11-3	Dimethylphthalate	1.05	U
84-66-2	Diethylphthalate	1.05	U
7005-72-3	4-Chlorophenyl-phenylether	1.05	U
100-01-6	4-Nitroaniline	1.05	U
534-52-1	4,6-Dinitro-2-methylphenol	1.05	U UJ
86-30-6	N-Nitrosodiphenylamine (1)	1.05	U
101-55-3	4-Bromophenyl-phenylether	1.05	U
118-74-1	Hexachlorobenzene	1.05	U
87-86-5	Pentachlorophenol	1.05	U
85-01-8	Phenanthrene	1.05	U
120-12-7	Anthracene	1.05	U
84-74-2	Di-n-Butylphthalate	1.57	
206-44-0	Fluoranthene	1.05	U
129-00-0	Pyrene	1.05	U
85-68-7	Butylbenzylphthalate	1.05	U
56-55-3	Benzo(a)Anthracene	1.05	U
91-94-1	3,3'-Dichlorobenzidine	1.05	U
218-01-9	Chrysene	1.05	U
117-81-7	bis(2-ethylhexyl)Phthalate	1.68	U
117-84-0	Di-n-octylphthalate	1.05	U
205-99-2	Benzo(b)fluoranthene	1.05	U
207-08-9	Benzo(k)fluoranthene	1.05	U
50-32-8	Benzo(a)pyrene	1.05	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.05	U
53-70-3	Dibenzo(a,h)anthracene	1.05	U
191-24-2	Benzo(g,h,i)perylene	1.05	U

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12/07

FORM 1 US ARMY CORP OF ENGI09-AUG-20

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AD2004-G
W-MW4R-03

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04080062USACE-SC

Matrix: (soil/water) WATER Lab Sample ID: AH08534

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: M3082005

Level: (low/med) LOW Date Received: 08/09/04

% Moisture: not dec. _____ Date Analyzed: 08/20/04

GC Column: DBXLB ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-74-8	Carbazole	1.05	U
58-90-2	2,3,4,6-Tetrachlorophenol	1.05	U
4901-51-3	2,3,4,5;2,3,5,6-TCP	1.05	U
103-33-3	Azobenzene	1.05	U

A

92704

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Totten

Collection Date: June 21, 2004

LDC Report Date: August 25, 2004

Matrix: Soil

Parameters: Metals

Validation Level: EPA Level IV

Laboratory: Northeast Analytical, Inc.

Sample Delivery Group (SDG): 04060132

Sample Identification

Ad2004-SS-13-SH
Ad2004-SS-13-DP
Ad2004-SS-14-SH
Ad2004-SS-13-SHMS
Ad2004-SS-13-SHDUP

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Contract Laboratory Program Statement of Work (SOW) for Inorganic Analysis, Multi-media, Multi-concentration, D.N. ILM04.2 for TAL Metals.

This review follows the NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5), USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio (March 1979), 40CFR Part 792 on Good Laboratory Practice Standards, and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

All criteria for the initial calibration were met.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met with the following exceptions:

Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
7/8/04 (0213)	CRDL1	Silver	215.0 (80-120)	Ad2004-SS-13-SH	R	P
7/8/04 (0440)	CRDL2	Silver	215.6 (80-120)	Ad2004-SS-13-DP Ad2004-SS-14-SH	R	P

CRDL standards for ICP and AA were analyzed and reported as required.

Instrument detection limits, interelement corrections and linear range analysis were performed at the required frequency.

III. Blanks

Method blanks were reviewed for each matrix as applicable with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 04060132	All TAL metals except Mercury	More than ten samples associated to a CCB.	No more than ten samples to be associated to a CCB.	None	P

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found above the IDL in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Aluminum Manganese	36.5 ug/L 3.1 ug/L	All samples in SDG 04060132

The absolute value of the contaminant concentrations found in the initial, continuing and preparation blanks were less than the CRDL.

Sample concentrations were compared to the maximum contaminant concentrations detected in the ICB/CCB/PBs. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

No field blanks were identified in this SDG.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met with the following exceptions:

ICS ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
ICSAB (7/8/04 0203)	Sodium	124.9 (80-120)	All samples in SDG 04060132	J (all detects)	P
ICSAB (7/8/04 0430)	Sodium	123.5 (80-120)	All samples in SDG 04060132	J (all detects)	P
ICSAB (7/9/04 1121)	Potassium	153.1 (80-120)	All samples in SDG 04060132	J (all detects)	P
ICSAB (7/9/04 1219)	Potassium	152.6 (80-120)	All samples in SDG 04060132	J (all detects)	P

Samples were qualified as estimated (J detects) if the interferent concentrations in the samples were greater than ninety percent of the spiked interferent concentrations in the ICSAB.

V. Matrix Spike Analysis

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits of 75-125% with the following exceptions:

Spike ID (Associated Samples)	Analyte	%R	Flag	A or P
Ad2004-SS-13-SHMS (All samples in SDG 04060132)	Chromium	55.2	J (all detects) UJ (all non-detects)	A
	Nickel	64.5	J (all detects) UJ (all non-detects)	

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
Ad2004-SS-13-SHDUP (All samples in SDG 04060132)	Calcium	40.2 (≤35)	-	J (all detects) UJ (all non-detects)	A
	Magnesium	65.2 (≤35)	-	J (all detects) UJ (all non-detects)	

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

The frequency of analysis was met with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 0406132	Calcium Magnesium Potassium	No ICP serial dilution associated with these samples.	ICP serial dilution required.	None None None	P

The criteria for analysis were met with the following exceptions:

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
Ad2004-SS-13-SHL	Aluminum	12.7 (≤10)	All samples in SDG	J (all detects)	A
	Barium	14.6 (≤10)	0406132	J (all detects)	
	Lead	20.4 (≤10)		J (all detects)	
	Cobalt	18.4 (≤10)		J (all detects)	
	Chromium	14.3 (≤10)		J (all detects)	
	Iron	18.8 (≤10)		J (all detects)	
	Manganese	13.4 (≤10)		J (all detects)	
	Nickel	19.0 (≤10)		J (all detects)	
	Vanadium	12.0 (≤10)		J (all detects)	
	Zinc	15.0 (≤10)		J (all detects)	

XI. Sample Result Verification

All sample result verifications met validation criteria.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

Fort Totten
Metals - Data Qualification Summary - SDG 04060132

SDG	Sample	Analyte	Flag	A or P	Reason
04060132	Ad2004-SS-13-SH Ad2004-SS-13-DP Ad2004-SS-14-SH	Silver	R	P	Calibration (%R)
04060132	Ad2004-SS-13-SH Ad2004-SS-13-DP Ad2004-SS-14-SH	All TAL metals except Mercury	None	P	Method blanks
04060132	Ad2004-SS-13-SH Ad2004-SS-13-DP Ad2004-SS-14-SH	Sodium Potassium	J (all detects) J (all detects)	P	ICP interference check sample analysis (%R)
04060132	Ad2004-SS-13-SH Ad2004-SS-13-DP Ad2004-SS-14-SH	Chromium Nickel	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike analysis (%R)
04060132	Ad2004-SS-13-SH Ad2004-SS-13-DP Ad2004-SS-14-SH	Calcium Magnesium	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD)
04060132	Ad2004-SS-13-SH Ad2004-SS-13-DP Ad2004-SS-14-SH	Calcium Magnesium Potassium	None None None	P	ICP serial dilution
04060132	Ad2004-SS-13-SH Ad2004-SS-13-DP Ad2004-SS-14-SH	Aluminum Barium Lead Cobalt Chromium Iron Manganese Nickel Vanadium Zinc	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	ICP serial dilution (%D)

Fort Totten
Metals - Laboratory Blank Data Qualification Summary - SDG 04060132

No Sample Data Qualified in this SDG

Fort Totten
Metals - Field Blank Data Qualification Summary - SDG 04060132

No Sample Data Qualified in this SDG

USEPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
Ad2004-SS-13-SH

Lab Name: Northeast Analytical Lab Contract: FORT TOTTEN

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04060132

Matrix (soil/water): SOIL Lab Sample ID: AH06258

Level (low/med): LOW Date Received: 6/25/2004

% Solids: 81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8310			P	J
7440-36-0	Antimony	4.10			P	
7440-38-2	Arsenic	8.53			P	
7440-39-3	Barium	180			P	J
7440-41-7	Beryllium	0.447			P	
7439-92-1	Lead	1020			P	J
7440-70-2	Calcium	29700			P	J
7440-43-9	Cadmium	2.03			P	
7440-48-4	Cobalt	7.40			P	J
7440-47-3	Chromium	30.6		N	P	J
7440-50-8	Copper	287			P	
7439-89-6	Iron	25100			P	J
7439-95-4	Magnesium	14000			P	J
7439-96-5	Manganese	293			P	J
7439-97-6	Mercury	0.566			CV	
7440-23-5	Sodium	177			P	J
7440-02-0	Nickel	24.8		N	P	J
7440-09-7	Potassium	1200			P	J
7782-49-2	Selenium	1.70	U		P	
7440-22-4	Silver	1.00			P	R
7440-28-0	Thallium	2.90			P	
7440-62-2	Vanadium	27.5			P	J
7440-66-6	Zinc	498			P	J

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments: AQ704

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
Ad2004-SS-13-DP

Lab Name: Northeast Analytical Lab Contract: FORT TOTTEN

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04060132

Matrix (soil/water): SOIL Lab Sample ID: AH06259

Level (low/med): LOW Date Received: 6/25/2004

% Solids: 83.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8990			P	J
7440-36-0	Antimony	3.10			P	
7440-38-2	Arsenic	9.62			P	
7440-39-3	Barium	341			P	J
7440-41-7	Beryllium	0.657			P	
7439-92-1	Lead	753			P	J
7440-70-2	Calcium	10100			P	J
7440-43-9	Cadmium	1.48			P	
7440-48-4	Cobalt	8.50			P	J
7440-47-3	Chromium	33.5		N	P	J
7440-50-8	Copper	164			P	
7439-89-6	Iron	29300			P	J
7439-95-4	Magnesium	6160			P	J
7439-96-5	Manganese	245			P	J
7439-97-6	Mercury	0.837			CV	
7440-23-5	Sodium	183			P	J
7440-02-0	Nickel	24.0		N	P	J
7440-09-7	Potassium	868			P	J
7782-49-2	Selenium	1.70	U		P	
7440-22-4	Silver	0.638			P	R
7440-28-0	Thallium	2.80			P	
7440-62-2	Vanadium	29.3			P	J
7440-66-6	Zinc	539			P	J

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments: A7101

USEPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
Ad2004-SS-14-SH

Lab Name: Northeast Analytical Lab Contract: FORT TOTTEN

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04060132

Matrix (soil/water): SOIL Lab Sample ID: AH06260

Level (low/med): LOW Date Received: 6/25/2004

% Solids: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12300			P	J
7440-36-0	Antimony	39.60			P	
7440-38-2	Arsenic	7.32			P	
7440-39-3	Barium	173			P	J
7440-41-7	Beryllium	0.456			P	
7439-92-1	Lead	4870			P	J
7440-70-2	Calcium	40800			P	J
7440-43-9	Cadmium	1.97			P	
7440-48-4	Cobalt	6.70			P	J
7440-47-3	Chromium	27.4		N	P	J
7440-50-8	Copper	343			P	
7439-89-6	Iron	21500			P	J
7439-95-4	Magnesium	6030			P	J
7439-96-5	Manganese	298			P	J
7439-97-6	Mercury	0.531			CV	
7440-23-5	Sodium	163			P	J
7440-02-0	Nickel	21.9		N	P	J
7440-09-7	Potassium	1150			P	J
7782-49-2	Selenium	1.20	U		P	
7440-22-4	Silver	0.990			P	R
7440-28-0	Thallium	2.60			P	
7440-62-2	Vanadium	27.4			P	J
7440-66-6	Zinc	628			P	J

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments: A 6/30/04

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Totten

Collection Date: June 21, 2004

LDC Report Date: August 25, 2004

Matrix: Soil

Parameters: Semivolatiles

Validation Level: EPA Level IV

Laboratory: Northeast Analytical, Inc.

Sample Delivery Group (SDG): 04060132

Sample Identification

Ad2004-SS-13-SH
Ad2004-SS-14-SH
Ad2004-SS-14-SHDL1
Ad2004-SS-14-SHDL2

Introduction

This data review covers 4 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5), USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio (March 1979), 40CFR Part 792 on Good Laboratory Practice Standards, and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 20.5% for each individual compound and less than or equal to 100.0% for selected compounds with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
7/7/04	Nitrobenzene	21.3	Ad2004-SS-13-SH Ad2004-SS-14-SH AH06258BLANK	J (all detects) UJ (all non-detects)	A

A curve fit, based on the initial calibration, was established for quantitation for selected compounds. The coefficient of determination (r^2) was greater than or equal to 0.990 .

Average relative response factors (RRF) for all semivolatile target compounds were within the QC limits with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
7/7/04	Bis(2-chloroethyl) ether	0.67106571 (≥0.700)	Ad2004-SS-13-SH Ad2004-SS-14-SH AH06258BLANK	None	P

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for each individual compound and less than or equal to 100.0% for selected compounds.

All of the continuing calibration RRF values were within the QC limits with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
7/8/04	Bis(2-chloroethyl) ether	0.68459 (≥0.700)	Ad2004-SS-13-SH Ad2004-SS-14-SH	None	P

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 04060132	All TCL compounds	No MS/MSD associated with these samples.	MS/MSD required.	None	P

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
AH06258LCS (Ad2004-SS-13-SH Ad2004-SS-14-SH AH06258BLANK)	4-Chloro-3-methylphenol	166 (22-147)	-	-	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
Ad2004-SS-14-SH	Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
Ad2004-SS-14-SHDL1	Phenanthrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

Samples Ad2004-SS-13-SH and Ad2004-SS-14-SH, samples Ad2004-SS-13-SH and Ad2004-SS-14-SHDL1, and samples Ad2004-SS-13-SH and Ad2004-SS-14-SHDL2 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-13-SH	Ad2004-SS-14-SH	
Naphthalene	77.4	2080	186
2-Methylnaphthalene	49.6	1530	187
Acenaphthene	77.2	2820	189
Dibenzofuran	43.3	1690	190
Fluorene	65.1	3360	192
Phenanthrene	596	44900	195
Anthracene	159	7730	192
Fluoranthene	818	29800	189
Pyrene	810	42800	193
Benzo(a)pyrene	406U	8480	200
Benzo(a)anthracene	411	14900	189
Chrysene	482	12500	185
Bis(2-ethyhexyl)phthalate	171	386U	200
Benzo(b)fluoranthene	615	11000	179
Benzo(k)fluoranthene	205	3500	178
Benzo(g,h,i)perylene	187	2640	174
Carbazole	76.2	2350	187

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-13-SH	Ad2004-SS-14-SH	
4-Methylphenol	406U	74	200
Acenaphthylene	406U	168	200
Indeno(1,2,3-cd)pyrene	406U	2950	200
Dibenzo(a,h)anthracene	406U	1140	200

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-13-SH	Ad2004-SS-14-SHDL1	
Naphthalene	77.4	2130	186
2-Methylnaphthalene	49.6	Not reported	Not calculable
Acenaphthene	77.2	3550	191
Dibenzofuran	43.3	Not reported	Not calculable
Fluorene	65.1	3850	193
Phenanthrene	596	33500	193
Anthracene	159	7720	192
Fluoranthene	818	25400	188
Pyrene	810	29400	189
Benzo(a)anthracene	411	12500	187
Chrysene	482	10600	183
Bis(2-ethyhexyl)phthalate	171	Not reported	Not calculable
Benzo(b)fluoranthene	615	13700	183
Benzo(k)fluoranthene	205	1930U	200

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-13-SH	Ad2004-SS-14-SHDL1	
Benzo(a)pyrene	406U	9210	200
Benzo(g,h,i)perylene	187	3740	181
Carbazole	76.2	Not reported	Not calculable
Indeno(1,2,3-cd)pyrene	406U	4120	200

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-13-SH	Ad2004-SS-14-SHDL2	
Naphthalene	77.4	1830	184
2-Methylnaphthalene	49.6	Not reported	Not calculable
Acenaphthene	77.2	3110	190
Dibenzofuran	43.3	Not reported	Not calculable
Fluorene	65.1	3790	193
Phenanthrene	596	27800	192
Anthracene	159	6600	191
Fluoranthene	818	24700	187
Pyrene	810	23300	187
Benzo (a) anthracene	411	9880	184
Chrysene	482	8390	178
Bis (2-ethyhexyl) phthalate	171	Not reported	Not calculable
Benzo (b) Fluoranthene	615	12000	180
Benzo (k) fluoranthene	205	7730U	200

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-13-SH	Ad2004-SS-14-SHDL2	
Benzo (a) pyrene	406U	7670	200
Benzo(g,h,i)perylene	187	7730U	200
Carbazole	76.2	Not reported	Not calculable

Fort Totten
Semivolatiles - Data Qualification Summary - SDG 04060132

SDG	Sample	Compound	Flag	A or P	Reason
04060132	Ad2004-SS-13-SH Ad2004-SS-14-SH	Nitrobenzene	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
04060132	Ad2004-SS-13-SH Ad2004-SS-14-SH	Bis(2-chloroethyl) ether	None	P	Initial calibration (RRF)
04060132	Ad2004-SS-13-SH Ad2004-SS-14-SH	Bis(2-chloroethyl) ether	None	P	Continuing calibration (RRF)
04060132	Ad2004-SS-13-SH Ad2004-SS-14-SH	4-Chloro-3-methylphenol	J (all detects)	P	Laboratory control samples (%R)
04060132	Ad2004-SS-14-SH	Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs
04060132	Ad2004-SS-14-SHDL1	Phenanthrene	J (all detects)	A	Compound quantitation and CRQLs

Fort Totten
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 04060132

No Sample Data Qualified in this SDG

Fort Totten
Semivolatiles - Field Blank Data Qualification Summary - SDG 04060132

No Sample Data Qualified in this SDG

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AD2004-SS-13-SH

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04060132USACE

Matrix: (soil/water) SOIL Lab Sample ID: AH06258

Sample wt/vol: 30.2(g/mL) G Lab File ID: M3070813

Level: (low/med) LOW Date Received: 06/25/04

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 06/28/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/08/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ~~5.0~~

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	406	U
111-44-4	Bis(2-chloroethyl)ether	406	U
95-57-8	2-Chlorophenol	406	U
541-73-1	1,3-Dichlorobenzene	406	U
106-46-7	1,4-Dichlorobenzene	406	U
95-50-1	1,2-Dichlorobenzene	406	U
95-48-7	2-Methylphenol	406	U
108-60-1	bis(2-Chloroisopropyl)ether	406	U
621-64-7	N-Nitrosodinpropylamine	406	U
106-44-5	4-Methylphenol	406	U
67-72-1	Hexachloroethane	406	U
98-95-3	Nitrobenzene	406	U UJ
78-59-1	Isophorone	406	U
88-75-5	2-Nitrophenol	406	U
105-67-9	2,4-Dimethylphenol	406	U
111-91-1	Bis(2-chloroethoxy)methane	406	U
120-83-2	2,4-Dichlorophenol	406	U
120-82-1	1,2,4-Trichlorobenzene	406	U
91-20-3	Naphthalene	77.4	J
106-47-8	4-Chloroaniline	406	U
87-68-3	Hexachlorobutadiene	406	U
59-50-7	4-Chloro-3-Methylphenol	406	U ~~UJ~~
91-57-6	2-Methylnaphthalene	49.6	J
77-47-4	Hexachlorocyclopentadiene	406	U
88-06-2	2,4,6-Trichlorophenol	406	U
95-95-4	2,4,5-Trichlorophenol	406	U
91-58-7	2-Chloronaphthalene	406	U
88-74-4	2-Nitroaniline	406	U
208-96-8	Acenaphthylene	406	U
606-20-2	2,6-Dinitrotoluene	406	U
99-09-2	3-Nitroaniline	406	U
83-32-9	Acenaphthene	77.2	J
51-28-5	2,4-Dinitrophenol	406	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AD2004-SS-13-SH

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04060132USACE-SC

Matrix: (soil/water) SOIL Lab Sample ID: AH06258

Sample wt/vol: 30.2(g/mL) G Lab File ID: M3070813

Level: (low/med) LOW Date Received: 06/25/04

% Moisture: 19 Decanted: (Y/N)N Date Extracted: 06/28/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/08/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ~~5.0~~

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
132-64-9	Dibenzofuran	43.3	J
100-02-7	4-Nitrophenol	406	U
121-14-2	2,4-Dinitrotoluene	406	U
86-73-7	Fluorene	65.1	J
131-11-3	Dimethylphthalate	406	U
84-66-2	Diethylphthalate	406	U
7005-72-3	4-Chlorophenyl-phenylether	406	U
100-01-6	4-Nitroaniline	406	U
534-52-1	4,6-Dinitro-2-methylphenol	406	U
86-30-6	N-Nitrosodiphenylamine (1)	406	U
101-55-3	4-Bromophenyl-phenylether	406	U
118-74-1	Hexachlorobenzene	406	U
87-86-5	Pentachlorophenol	406	U
85-01-8	Phenanthrene	596	
120-12-7	Anthracene	159	J
84-74-2	Di-n-Butylphthalate	406	U
206-44-0	Fluoranthene	818	
129-00-0	Pyrene	810	
85-68-7	Butylbenzylphthalate	406	U
56-55-3	Benzo(a)Anthracene	411	
91-94-1	3,3'-Dichlorobenzidine	406	U
218-01-9	Chrysene	482	
117-81-7	bis(2-ethylhexyl)Phthalate	171	J
117-84-0	Di-n-octylphthalate	406	U
205-99-2	Benzo(b)fluoranthene	615	
207-08-9	Benzo(k)fluoranthene	205	J
50-32-8	Benzo(a)pyrene	406	U
193-39-5	Indeno(1,2,3-cd)pyrene	406	U
53-70-3	Dibenzo(a,h)anthracene	406	U
191-24-2	Benzo(g,h,i)perylene	187	J
86-74-8	Carbazole	76.2	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AD2004-SS-14-SH

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04060132USACE-SC

Matrix: (soil/water) SOIL Lab Sample ID: AH06260

Sample wt/vol: 30.9(g/mL) G Lab File ID: M3070814

Level: (low/med) LOW Date Received: 06/25/04

% Moisture: 16 Decanted: (Y/N)N Date Extracted: 06/28/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/08/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ~~5.0~~

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	386	U
111-44-4	Bis(2-chloroethyl)ether	386	U
95-57-8	2-Chlorophenol	386	U
541-73-1	1,3-Dichlorobenzene	386	U
106-46-7	1,4-Dichlorobenzene	386	U
95-50-1	1,2-Dichlorobenzene	386	U
95-48-7	2-Methylphenol	386	U
108-60-1	bis(2-Chloroisopropyl)ether	386	U
621-64-7	N-Nitrosodinpropylamine	386	U
106-44-5	4-Methylphenol	74.0	J
67-72-1	Hexachloroethane	386	U
98-95-3	Nitrobenzene	386	U U5
78-59-1	Isophorone	386	U
88-75-5	2-Nitrophenol	386	U
105-67-9	2,4-Dimethylphenol	386	U
111-91-1	Bis(2-chloroethoxy)methane	386	U
120-83-2	2,4-Dichlorophenol	386	U
120-82-1	1,2,4-Trichlorobenzene	386	U
91-20-3	Naphthalene	2080	
106-47-8	4-Chloroaniline	386	U
87-68-3	Hexachlorobutadiene	386	U
59-50-7	4-Chloro-3-Methylphenol	386	U
91-57-6	2-Methylnaphthalene	1530	
77-47-4	Hexachlorocyclopentadiene	386	U
88-06-2	2,4,6-Trichlorophenol	386	U
95-95-4	2,4,5-Trichlorophenol	386	U
91-58-7	2-Chloronaphthalene	386	U
88-74-4	2-Nitroaniline	386	U
208-96-8	Acenaphthylene	168	J
606-20-2	2,6-Dinitrotoluene	386	U
99-09-2	3-Nitroaniline	386	U
83-32-9	Acenaphthene	2820	
51-28-5	2,4-Dinitrophenol	386	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AD2004-SS-14-SH

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04060132USACE

Matrix: (soil/water) SOIL Lab Sample ID: AH06260

Sample wt/vol: 30.9(g/mL) G Lab File ID: M3070814

Level: (low/med) LOW Date Received: 06/25/04

% Moisture: 16 Decanted: (Y/N)N Date Extracted: 06/28/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/08/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ~~5.0~~

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
132-64-9	Dibenzofuran	1690	
100-02-7	4-Nitrophenol	386	U
121-14-2	2,4-Dinitrotoluene	386	U
86-73-7	Fluorene	3360	
131-11-3	Dimethylphthalate	386	U
84-66-2	Diethylphthalate	386	U
7005-72-3	4-Chlorophenyl-phenylether	386	U
100-01-6	4-Nitroaniline	386	U
534-52-1	4,6-Dinitro-2-methylphenol	386	U
86-30-6	N-Nitrosodiphenylamine (1)	386	U
101-55-3	4-Bromophenyl-phenylether	386	U
118-74-1	Hexachlorobenzene	386	U
87-86-5	Pentachlorophenol	386	U
85-01-8	Phenanthrene	44900	E J
120-12-7	Anthracene	7730	E J
84-74-2	Di-n-Butylphthalate	386	U
206-44-0	Fluoranthene	29800	E J
129-00-0	Pyrene	42800	E J
85-68-7	Butylbenzylphthalate	386	U
56-55-3	Benzo(a)Anthracene	14900	E J
91-94-1	3,3'-Dichlorobenzidine	386	U
218-01-9	Chrysene	12500	E J
117-81-7	bis(2-ethylhexyl)Phthalate	386	U
117-84-0	Di-n-octylphthalate	386	U
205-99-2	Benzo(b)fluoranthene	11000	E J
207-08-9	Benzo(k)fluoranthene	3500	
50-32-8	Benzo(a)pyrene	8480	E J
193-39-5	Indeno(1,2,3-cd)pyrene	2950	
53-70-3	Dibenzo(a,h)anthracene	1140	
191-24-2	Benzo(g,h,i)perylene	2640	
86-74-8	Carbazole	2350	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AD2004-SS-14-SH

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04060132USACE-SC

Matrix: (soil/water) SOIL Lab Sample ID: AH06260

Sample wt/vol: 30.9(g/mL) G Lab File ID: M3070928

Level: (low/med) LOW Date Received: 06/25/04

% Moisture: 16 Decanted: (Y/N)N Date Extracted: 06/28/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: ~~5.0~~

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2130	
208-96-8	Acenaphthylene	1930	U
83-32-9	Acenaphthene	3550	
86-73-7	Fluorene	3850	
85-01-8	Phenanthrene	33500	E J
120-12-7	Anthracene	7720	
206-44-0	Fluoranthene	25400	
129-00-0	Pyrene	29400	
56-55-3	Benzo(a)Anthracene	12500	
218-01-9	Chrysene	10600	
205-99-2	Benzo(b)fluoranthene	13700	
207-08-9	Benzo(k)fluoranthene	1930	U
50-32-8	Benzo(a)pyrene	9210	
193-39-5	Indeno(1,2,3-cd)pyrene	4120	
53-70-3	Dibenzo(a,h)anthracene	1930	U
191-24-2	Benzo(g,h,i)perylene	3740	

A
91404 000041

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AD2004-SS-14-SH

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04060132USACE-SC

Matrix: (soil/water) SOIL Lab Sample ID: AH06260

Sample wt/vol: 30.9(g/mL) G Lab File ID: M3070927

Level: (low/med) LOW Date Received: 06/25/04

% Moisture: 16 Decanted: (Y/N)N Date Extracted: 06/28/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/04

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: ~~5.0~~

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1830	J
208-96-8	Acenaphthylene	7730	U
83-32-9	Acenaphthene	3110	J
86-73-7	Fluorene	3790	J
85-01-8	Phenanthrene	27800	
120-12-7	Anthracene	6600	J
206-44-0	Fluoranthene	24700	
129-00-0	Pyrene	23300	
56-55-3	Benzo(a)Anthracene	9880	
218-01-9	Chrysene	8390	
205-99-2	Benzo(b)fluoranthene	12000	
207-08-9	Benzo(k)fluoranthene	7730	U
50-32-8	Benzo(a)pyrene	7670	J
193-39-5	Indeno(1,2,3-cd)pyrene	7730	U
53-70-3	Dibenzo(a,h)anthracene	7730	U
191-24-2	Benzo(g,h,i)perylene	7730	U

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Totten

Collection Date: June 21 through July 1, 2004

LDC Report Date: August 10, 2004

Matrix: Soil

Parameters: Metals

Validation Level: EPA Level IV

Laboratory: TriMatrix Laboratories, Inc.

Sample Delivery Group (SDG): 36620-1

Sample Identification

Ad2004-SS-1-SH
Ad2004-SS-1-DP
Ad2004-SS-2-SH
Ad2004-SS-2-DP
Ad2004-SS-3-SH
Ad2004-SS-3-DP
Ad2004-SS-4-SH
Ad2004-SS-4-DP
Ad2004-SS-5-SH
Ad2004-SS-5-DP
Ad2004-SS-6-SH
Ad2004-SS-6-DP
Ad2004-SS-7-SH
Ad2004-SS-7-DP
Ad2004-SS-9-SH
Ad2004-SS-9-DP
Ad2004-SS-10-SH
Ad2004-SS-10-DP
Ad2004-SS-11-SH
Ad2004-SS-11-DP
Ad2004-SS-12-SH
Ad2004-SS-12-DP
Ad2004-SS-27-SH
Ad2004-SS-32-SH
Ad2004-SS-30-SH
Ad2004-SS-8-SH
Ad2004-SS-8-DP
Ad2004-SS-6-SHMS
Ad2004-SS-6-SHMSD
Ad2004-SS-12-DPMS
Ad2004-SS-12-DPMSD

Introduction

This data review covers 31 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows the NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5), USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio (March 1979), 40CFR Part 792 on Good Laboratory Practice Standards, and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the method stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable.

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Iron Zinc	0.810 mg/Kg 0.78 mg/Kg	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP
PB (prep blank)	Aluminum Antimony Barium Calcium Magnesium Silver Zinc	8.44 mg/Kg 0.116 mg/Kg 0.224 mg/Kg 31.6 mg/Kg 9.36 mg/Kg 0.505 mg/Kg 0.872 mg/Kg	Ad2004-SS-12-SH Ad2004-SS-12-DP Ad2004-SS-27-SH Ad2004-SS-32-SH Ad2004-SS-30-SH

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Silver	8.74 ug/L	Ad2004-SS-12-SH Ad2004-SS-12-DP Ad2004-SS-27-SH Ad2004-SS-32-SH Ad2004-SS-30-SH Ad2004-SS-8-SH Ad2004-SS-8-DP
PB (prep blank)	Calcium Zinc	23.3 mg/Kg 0.742 mg/Kg	Ad2004-SS-8-SH Ad2004-SS-8-DP

Sample concentrations were compared to the maximum contaminant concentrations detected in the ICB/CCB/PBs. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
Ad2004-SS-12-DP	Silver	1.5 mg/Kg	1.5U mg/Kg
Ad2004-SS-27-SH	Silver	1.7 mg/Kg	1.7U mg/Kg
Ad2004-SS-12-SH	Silver	2.7 mg/Kg	2.7U mg/Kg
Ad2004-SS-32-SH	Silver	3.0 mg/Kg	3.0U mg/Kg
Ad2004-SS-8-SH	Silver	0.53 mg/Kg	0.53U mg/Kg

No field blanks were identified in this SDG.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
Ad2004-SS-8-SH Ad2004-SS-8-DP	All TAL metals	No MS associated with these samples.	MS required.	None	P

Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
Ad2004-SS-6-SHMS/MSD (Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP)	Potassium	135 (75-125)	-	-	J (all detects)	A
Ad2004-SS-6-SHMS/MSD (Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP)	Vanadium	69 (75-125)	-	-	J (all detects) UJ (all non-detects)	A

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
Ad2004-SS-12-DPMS/MSD (Ad2004-SS-12-SH Ad2004-SS-12-DP Ad2004-SS-27-SH Ad2004-SS-32-SH Ad2004-SS-30-SH)	Selenium Thallium Vanadium	72 (75-125) 74 (75-125) -	- - 60 (75-125)	- - -	J (all detects) UJ (all non-detects)	A

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
Ad2004-SS-8-SH Ad2004-SS-8-DP	All TAL metals	No DUP associated with these samples.	DUP required.	None	P

Results were within QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standard (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

Although ICP serial dilution analysis was not required by the method, it was performed by the laboratory. The analysis criteria were met with the following exceptions:

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
Ad2004-SS-6-SHL	Nickel	11.8 (≤10)	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP	J (all detects)	A
Ad2004-SS-12-DPL	Chromium Nickel	12.9 (≤10) 14.3 (≤10)	Ad2004-SS-12-SH Ad2004-SS-12-DP Ad2004-SS-27-SH Ad2004-SS-32-SH Ad2004-SS-30-SH	J (all detects) J (all detects)	A

XI. Sample Result Verification

All sample result verifications met validation criteria.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

XIII. Field Duplicates

Samples Ad2004-SS-7-SH and Ad2004-SS-27-SH, samples Ad2004-SS-10-SH and Ad2004-SS-30-SH, and samples Ad2004-SS-12-SH and Ad2004-SS-32-SH were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	Ad2004-SS-7-SH	Ad2004-SS-27-SH	
Aluminum	13600	12500	8
Antimony	1.1	1.3	17

Compound	Concentration (mg/Kg)		RPD
	Ad2004-SS-7-SH	Ad2004-SS-27-SH	
Arsenic	5.1	5.3	4
Barium	95	94	1
Beryllium	0.068	0.11	47
Cadmium	0.32	0.33	3
Calcium	2140	1810	17
Chromium	19	18	5
Cobalt	7.9	7.6	4
Copper	35	32	9
Iron	24900	18700	28
Lead	222	208	7
Magnesium	3190	2430	27
Manganese	566	412	31
Mercury	0.79	0.65	19
Nickel	18	17	6
Potassium	1340	1140	16
Selenium	0.49	0.50	2
Silver	1U	1.7	200
Sodium	50U	40	200
Thallium	0.17	0.17	0
Vanadium	29	29	0

Compound	Concentration (mg/Kg)		RPD
	Ad2004-SS-7-SH	Ad2004-SS-27-SH	
Zinc	148	151	2

Compound	Concentration (mg/Kg)		RPD
	Ad2004-SS-10-SH	Ad2004-SS-30-SH	
Aluminum	12700	12600	1
Antimony	0.73	0.77	5
Arsenic	4.0	4.1	2
Barium	256	220	15
Beryllium	0.19	0.29	42
Cadmium	1.4	1.3	7
Calcium	3810	3520	8
Chromium	19	19	0
Cobalt	7.4	7.7	4
Copper	36	38	5
Iron	16700	18200	9
Lead	1540	642	82
Magnesium	2960	3450	15
Manganese	536	618	14
Mercury	2.4	2.5	4
Nickel	24	21	13
Potassium	1310	1230	6

Compound	Concentration (mg/Kg)		RPD
	Ad2004-SS-10-SH	Ad2004-SS-30-SH	
Selenium	0.67	0.70	4
Sodium	80	101	23
Thallium	0.14	0.17	19
Vanadium	24	23	4
Zinc	480	470	2

Compound	Concentration (mg/Kg)		RPD
	Ad2004-SS-12-SH	Ad2004-SS-32-SH	
Aluminum	8190	8430	3
Antimony	2.6	2.7	4
Arsenic	6.8	6.7	1
Barium	268	208	25
Cadmium	2.6	2.2	17
Calcium	13700	14000	2
Chromium	32	26	21
Cobalt	7.8	9.3	18
Copper	315	334	6
Iron	25000	31500	23
Lead	1090	1170	7
Magnesium	4640	4790	3
Manganese	350	386	10

Compound	Concentration (mg/Kg)		RPD
	Ad2004-SS-12-SH	Ad2004-SS-32-SH	
Mercury	0.53	0.53	0
Nickel	25	26	4
Potassium	1260	1320	5
Selenium	0.75	0.74	1
Silver	2.7	3.0	11
Sodium	121	154	24
Thallium	0.14	0.12	15
Vanadium	30	27	11
Zinc	581	512	13

Fort Totten
Metals - Data Qualification Summary - SDG 36620-1

SDG	Sample	Analyte	Flag	A or P	Reason
36620-1	Ad2004-SS-8-SH Ad2004-SS-8-DP	All TAL metals	None	P	Matrix spike/Matrix spike duplicates
36620-1	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP	Potassium	J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)
36620-1	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP	Vanadium	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicates (%R)
36620-1	Ad2004-SS-12-SH Ad2004-SS-12-DP Ad2004-SS-27-SH Ad2004-SS-32-SH Ad2004-SS-30-SH	Selenium Thallium Vanadium	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicates (%R)
36620-1	Ad2004-SS-8-SH Ad2004-SS-8-DP	All TAL metals	None	P	Duplicate sample analysis

SDG	Sample	Analyte	Flag	A or P	Reason
36620-1	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP	Nickel	J (all detects)	A	ICP serial dilution (%D)
36620-1	Ad2004-SS-12-SH Ad2004-SS-12-DP Ad2004-SS-27-SH Ad2004-SS-32-SH Ad2004-SS-30-SH	Chromium Nickel	J (all detects) J (all detects)	A	ICP serial dilution (%D)

Fort Totten
Metals - Laboratory Blank Data Qualification Summary - SDG 36620-1

SDG	Sample	Analyte	Modified Final Concentration	A or P
36620-1	Ad2004-SS-12-DP	Silver	1.5U mg/Kg	A
36620-1	Ad2004-SS-27-SH	Silver	1.7U mg/Kg	A
36620-1	Ad2004-SS-12-SH	Silver	2.7U mg/Kg	A
36620-1	Ad2004-SS-32-SH	Silver	3.0U mg/Kg	A
36620-1	Ad2004-SS-8-SH	Silver	0.53U mg/Kg	A

Fort Totten
Metals - Field Blank Data Qualification Summary - SDG 36620-1

No Sample Data Qualified in this SDG

TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 13:50
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-1-SH**
Sample #: **364032**
Matrix: Soil

Percent Solids: 90

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	10400	1000	420	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.68	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	5.3	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	56	50	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.046 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.99	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	3660	250	87.5	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	20	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	6.7	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	38	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	18400	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	286	50	3.88	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	3110	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	317	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.56	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	17 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1390	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.37 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	43 J	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.14 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	26 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	173	25	7.50	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 13:55
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-1-DP**
Sample #: **364033**
Matrix: Soil

Percent Solids: 87

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	14800	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.61	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	10	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	80	5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.11 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.84	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	3340	250	87.5	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	25	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	7.5	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	2470	50	25.8	mg/kg dry	07/09/04	JMF	USEPA-6010B
Iron, Total	20100	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	139	25	1.94	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	3380	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	339	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.80	0.20	0.0154	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	20 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1450 J	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.62 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	68	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.19 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	36 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	231	50	15.0	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:25
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
Submittal #:	**36620-1**		
Submittal:	June, 2004 Sampling Event		
	Fort Totten		
Sample ID:	**Ad2004- SS-2-SH**		
Sample #:	**364034**		
Matrix:	Soil	Percent Solids:	94

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	9820	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.59	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	4.2	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	47	0.5	0.0945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.087 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.35 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	2180	250	87.5	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	15	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	5.4	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	50	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	13300	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	120	25	1.94	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	2710	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	183	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	2.0	0.50	0.0385	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	13 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	741 J	50	7.79	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Selenium, Total	0.37 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	60	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.13 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	26 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	91	25	7.50	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimbre District
Fort Totten

Sampled: 06/21/04 @ 17:30
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-2-DP**
Sample #: **364035**
Matrix: Soil

Percent Solids: 95

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	9680	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.64	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	4.4	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	58	5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.18 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.46 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	2390	250	87.5	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	16	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	6.4	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	63	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	16200	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	176	25	1.94	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	2465	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	228	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	2.7	0.50	0.0385	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	15 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	833 J	50	7.79	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Selenium, Total	0.51 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	119	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.14 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	27 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	105	25	7.50	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:50
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-3-SH**
Sample #: **364036**
Matrix: Soil Percent Solids: 84

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	15500	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.70	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	5.4	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	37	0.5	0.0945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.097 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.12 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	430	50	17.5	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Chromium, Total	21	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	6.4	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	32	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	17900	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	51	10	0.776	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	2730	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	306	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.52	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	17 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	696 J	50	7.79	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Selenium, Total	0.93 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	50 U	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.20 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	27 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	43	1	0.300	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 16:55
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-3-DP**
Sample #: **364037**
Matrix: Soil

Percent Solids: 85

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	14900	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.070 J	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	2.1	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	46	0.5	0.0945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.28 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.070 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	314	50	17.5	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Chromium, Total	19	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	6.7	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	10	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	17100	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	14	1	0.0776	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	2690	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	293	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.077 J	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	16 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	668 J	50	7.79	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Selenium, Total	0.43 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	50 U	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.13 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	22 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	43	1	0.300	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 16:40
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-4-SH**
Sample #: **364038**
Matrix: Soil

Percent Solids: 89

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	15100	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.63	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	3.8	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	45	0.5	0.0945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.13 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.16 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	552	50	17.5	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Chromium, Total	21	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	8.1	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	28	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	21500	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	45	1	0.0776	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	3500	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	266	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.24	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	18 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1110 J	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.43 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	50 U	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.16 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	29 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	55	10	3.00	mg/kg dry	07/01/04	DWJ	USEPA-6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 16:45
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-4-DP**
Sample #: **364039**
Matrix: Soil

Percent Solids: 86

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	13600	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.098 J	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	2.4	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	25	0.5	0.0945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.14 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.051 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	440	50	17.5	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Chromium, Total	16	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	7.3	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	15	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	22100	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	8.6	1	0.0776	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	3780	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	198	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.10 U	0.10	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	13 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1200 J	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.094 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	50 U	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.092 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	24 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	40	1	0.300	mg/kg dry	07/01/04	DWJ	USEPA-6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimbre District
Fort Totten

Sampled: 06/21/04 @ 17:00
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-5-SH**
Sample #: **364040**
Matrix: Soil

Percent Solids: 87

Parameter	Analytical Result		Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	14000		500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.61		0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	7.9		0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	105		12.5	2.36	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.17 J		0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.49 J		0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	4090		500	175	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	21		1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	7.6		1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	34		1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	17800		500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	171		25	1.94	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	4060		500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	466		10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.38		0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	19	J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1330	J	500	77.9	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.59 J		1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U		1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	404		50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.18 J		1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	32	J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	144		25	7.50	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 17:05
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-5-DP**
Sample #: **364041**
Matrix: Soil

Percent Solids: 86

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	21300	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.15 J	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	2.4	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	73	5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.11 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.047 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	1430	500	175	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	33	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	12	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	23	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	30800	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	14	1	0.0776	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	5670	500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	485	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.021 J	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	24 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	3330 J	500	77.9	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.19 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	229	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.25 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	40 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	44	1	0.300	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimbre District
Fort Totten

Sampled: 06/21/04 @ 17:15
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-6-SH**
Sample #: **364042**
Matrix: Soil

Percent Solids: 87

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	14500	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.71	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	6.9	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	74	5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.10 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.37 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	2970	500	175	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	20	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	7.7	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	37	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	17900	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	108	25	1.94	mg/kg dry	07/01/04	DWJ	USEPA-6020
* Magnesium, Total	3390	500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	424	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.29	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
* Nickel, Total	17 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	967	50	7.79	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Selenium, Total	0.52 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	157	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.18 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	35 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	98	25	7.50	mg/kg dry	07/01/04	DWJ	USEPA-6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-6-DP**
Sample #: **364043**
Matrix: Soil Percent Solids: 87

Parameter	Analytical Result		Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	18400		500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.23 J		0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	3.0		0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	61		5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.053 J		0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.13 J		0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	1460		250	87.5	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	31		1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	11		1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	21		1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	25900		1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	24		1	0.0776	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	4280		250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	452		5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.068 J		0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	22	J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1450	J	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.38 J		1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U		1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	32 J		50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.19 J		1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	37	J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	49		1	0.300	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 14:10
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-7-SH**
Sample #: **364044**
Matrix: Soil

Percent Solids: 87

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	13600	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	1.1	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	5.1	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	95	5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.068 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.32 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	2140	500	175	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	19	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	7.9	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	35	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	24900	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	222	50	3.88	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	3190	500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	566	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.79	0.20	0.0154	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	18 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1340 J	500	77.9	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.49 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	50 U	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.17 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	29 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	148	25	7.50	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 14:15
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-7-DP**
Sample #: **364045**
Matrix: Soil

Percent Solids: 90

Parameter	Analytical Result		Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	11700		500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.68		0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	3.0		0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	88		5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.13 J		0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.13 J		0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	2380		500	175	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	20		1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	8.6		1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	29		1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	20900		1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	152		25	1.94	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	3680		500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	440		10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.27		0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	19	J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1680	J	500	77.9	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.38 J		1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U		1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	55		50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.17 J		1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	23	J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	71		10	3.00	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-9-DP**
Sample #: **364046**
Matrix: Soil Percent Solids: 85

Parameter	Analytical Result		Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	12600		500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.34 J		0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	2.1		0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	64		5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.17 J		0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.049 J		0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	1010		250	87.5	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	17		1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	7.6		1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	9.6		1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	17100		500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	11		1	0.0776	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	2670		250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	349		5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.028 J		0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	14	J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	626	J	50	7.79	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Selenium, Total	0.19 J		1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U		1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	50 U		50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.10 J		1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	21	J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	29		1	0.300	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 14:25
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-9-SH**
Sample #: **364047**
Matrix: Soil

Percent Solids: 83

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	14400	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.66	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	3.0	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	97	5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.46 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.23 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	2320	500	175	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	19	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	6.8	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	19	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	15800	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	93	10	0.776	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	2370	500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	617	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.14	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	17 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	588 J	50	7.79	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Selenium, Total	0.52 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	38 J	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.15 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	26 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	69	10	3.00	mg/kg dry	07/01/04	DWJ	USEPA-6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 14:50
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-10-SH**
Sample #: **364048**
Matrix: Soil

Percent Solids: 82

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	12700	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.73	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	4.0	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	256	25	4.73	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.19 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	1.4	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	3810	500	175	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	19	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	7.4	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	36	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	16700	500	183	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	1540	200	15.5	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	2960	500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	536	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	2.4	0.50	0.0385	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	24	J 0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1310	J 500	77.9	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.67 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	80	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.14 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	24	J 1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	480	50	15.0	mg/kg dry	07/01/04	DWJ	USEPA-6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 14:55
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-10-DP**
Sample #: **364049**
Matrix: Soil

Percent Solids: 85

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	17500	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.19 J	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	3.9	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	56	5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.5 U	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.060 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	1310	250	87.5	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	24	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	9.9	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	15	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	29200	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	26	1	0.0776	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	3370	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	349	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.097 J	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	17 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1510 J	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.14 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	50 U	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.13 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	31 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	50	1	0.300	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 13:20
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-11-SH**
Sample #: **364050**
Matrix: Soil

Percent Solids: 84

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	8460	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	6.3	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	6.7	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	449	25	4.73	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.5 U	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	2.4	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	13100	2500	875	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	30	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	8.2	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	346	5	2.58	mg/kg dry	07/09/04	JMF	USEPA-6010B
Iron, Total	28600	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	1160	200	15.5	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	4280	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	379	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.57	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	26 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1380	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.70 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	0.66 J	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	111	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.15 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	30 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	564	100	30.0	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 13:25
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-11-DP**
Sample #: **364051**
Matrix: Soil

Percent Solids: 85

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	8970	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	8.9	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	8.3	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	358	50	9.45	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.095 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	1.3	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	12300	2500	875	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	32	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	9.7	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	271	10	5.16	mg/kg dry	07/09/04	JMF	USEPA-6010B
Iron, Total	34100	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	1060	200	15.5	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	6640	500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	296	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	1.0	0.50	0.0385	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	21 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1040 J	500	77.9	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.86 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	0.39 J	1	0.362	mg/kg dry	07/08/04	KLVM	USEPA-6010B
Sodium, Total	195	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.13 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	29 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	478	100	30.0	mg/kg dry	07/01/04	DWJ	USEPA-6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 13:30
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-12-SH**
Sample #: **364052**
Matrix: Soil

Percent Solids: 82

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	8190	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	2.6	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	6.8	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	268	25	4.73	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.5 U	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	2.6	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	13700	2500	875	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	32 J	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	7.8	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	315	10	5.16	mg/kg dry	07/09/04	JMF	USEPA-6010B
Iron, Total	25000	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	1090	200	15.5	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	4640	500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	350	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.53	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	25 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1260	500	77.9	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.75 J J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	2.7 U	1	0.450	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Sodium, Total	121	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.14 J J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	30 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	581	100	30.0	mg/kg dry	07/01/04	DWJ	USEPA-6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 13:35
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-12-DP**
Sample #: **364053**
Matrix: Soil

Percent Solids: 84

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	8900	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	7.2	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	8.1	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	337	50	9.45	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.26 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	1.3	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	14100	2500	875	mg/kg dry	07/09/04	JMF	USEPA-6010B
* Chromium, Total	31 J	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	9.2	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	178	10	5.16	mg/kg dry	07/09/04	JMF	USEPA-6010B
Iron, Total	31500	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	737	100	7.76	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	7620	500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	302	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.86	0.20	0.0154	mg/kg dry	07/02/04	MSG	USEPA-7471A
* Nickel, Total	21 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
* Potassium, Total	912	500	77.9	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.85 J J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1.5 U	1	0.450	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Sodium, Total	166	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
* Thallium, Total	0.14 J J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
* Vanadium, Total	30 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	435	100	30.0	mg/kg dry	07/01/04	DWJ	USEPA-6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimbre District
Fort Totten

Sampled: 06/21/04 @ 14:10
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-27-SH**
Sample #: **364106**
Matrix: Soil

Percent Solids: 87

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	12500	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	1.3	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	5.3	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	94	5.0	0.945	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.11 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.33 J	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	1810	500	175	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	18 J	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	7.6	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	32	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	18700	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	208	25	1.94	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	2430	500	76.7	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	412	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.65	0.20	0.0154	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	17 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1140	500	77.9	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.50 J J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1.7 U	1	0.450	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Sodium, Total	40 J	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.17 J J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	29 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	151	25	7.50	mg/kg dry	07/01/04	DWJ	USEPA-6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 13:30
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-32-SH**
Sample #: **364109**
Matrix: Soil

Percent Solids: 82

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	8430	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	2.7	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	6.7	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	208	25	4.73	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.5 U	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	2.2	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	14000	2500	875	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	26 J	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	9.3	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	334	5	2.58	mg/kg dry	07/09/04	JMF	USEPA-6010B
Iron, Total	31500	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	1170	200	15.5	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	4790	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	386	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.53	0.1	0.0077	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	26 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1320	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.74 J J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	3.0 U	1	0.450	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Sodium, Total	154	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.12 J J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	27 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	512	100	30.0	mg/kg dry	07/01/04	DWJ	USEPA-6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 06/21/04 @ 14:50
Sampler: V. Griffin
Received: 06/25/04 @ 08:40

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-30-SH**
Sample #: **364110**
Matrix: Soil

Percent Solids: 82

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	12600	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.77	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	4.1	0.1	0.0580	mg/kg dry	07/01/04	DWJ	USEPA-6020
Barium, Total	220	25	4.73	mg/kg dry	07/01/04	DWJ	USEPA-6020
Beryllium, Total	0.29 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	1.3	0.5	0.0154	mg/kg dry	07/01/04	DWJ	USEPA-6020
Calcium, Total	3520	250	87.5	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	19 J	1.6	0.0394	mg/kg dry	07/01/04	DWJ	USEPA-6020
Cobalt, Total	7.7	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	38	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	18200	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	642	200	15.5	mg/kg dry	07/01/04	DWJ	USEPA-6020
Magnesium, Total	3450	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	618	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	2.5	0.50	0.0385	mg/kg dry	07/02/04	MSG	USEPA-7471A
Nickel, Total	21 J	0.5	0.0775	mg/kg dry	07/01/04	DWJ	USEPA-6020
Potassium, Total	1230	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.70 J	1	0.0486	mg/kg dry	07/01/04	DWJ	USEPA-6020
Silver, Total	1 U	1	0.450	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Sodium, Total	101	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.17 J	1	0.0733	mg/kg dry	07/01/04	DWJ	USEPA-6020
Vanadium, Total	23 J	1	0.0409	mg/kg dry	07/01/04	DWJ	USEPA-6020
Zinc, Total	470	50	15.0	mg/kg dry	07/01/04	DWJ	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 07/01/04 @ 00:00
Sampler: R. Whitten
Received: 07/02/04 @ 08:25

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-8-SH**
Sample #: **364523**
Matrix: Soil

Percent Solids: 88

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	12400	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.72	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	5.5	0.1	0.0580	mg/kg dry	07/07/04	DSC	USEPA-6020
Barium, Total	138	25	4.73	mg/kg dry	07/07/04	DSC	USEPA-6020
Beryllium, Total	0.31 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.54	0.5	0.0154	mg/kg dry	07/07/04	DSC	USEPA-6020
Calcium, Total	2870	250	87.5	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	20	1.6	0.0394	mg/kg dry	07/07/04	DSC	USEPA-6020
Cobalt, Total	7.9	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	37	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	19300	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	305	50	3.88	mg/kg dry	07/07/04	DSC	USEPA-6020
Magnesium, Total	2700	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	471	10	4.74	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.43	0.1	0.0077	mg/kg dry	07/08/04	MSG	USEPA-7471A
Nickel, Total	20	0.5	0.0775	mg/kg dry	07/07/04	DSC	USEPA-6020
Potassium, Total	1230	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.43 J	1	0.0486	mg/kg dry	07/07/04	DSC	USEPA-6020
Silver, Total	0.53 J U	1	0.450	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Sodium, Total	72	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.16 J	1	0.0733	mg/kg dry	07/07/04	DSC	USEPA-6020
Vanadium, Total	37	1	0.0409	mg/kg dry	07/07/04	DSC	USEPA-6020
Zinc, Total	199	50	15.0	mg/kg dry	07/07/04	DSC	USEPA-6020

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Sampled: 07/01/04 @ 00:00
Sampler: R. Whitten
Received: 07/02/04 @ 08:25

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-8-DP**
Sample #: **364524**
Matrix: Soil

Percent Solids: 89

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Aluminum, Total	11800	500	210	mg/kg dry	07/09/04	JMF	USEPA-6010B
Antimony, Total	0.55	0.5	0.0386	mg/kg dry	07/12/04	DSC	USEPA-6020
Arsenic, Total	4.9	0.1	0.0580	mg/kg dry	07/07/04	DSC	USEPA-6020
Barium, Total	120	25	4.73	mg/kg dry	07/07/04	DSC	USEPA-6020
Beryllium, Total	0.21 J	0.5	0.0267	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Cadmium, Total	0.44 J	0.5	0.0154	mg/kg dry	07/07/04	DSC	USEPA-6020
Calcium, Total	2600	250	87.5	mg/kg dry	07/09/04	JMF	USEPA-6010B
Chromium, Total	21	1.6	0.0394	mg/kg dry	07/07/04	DSC	USEPA-6020
Cobalt, Total	7.3	1	0.233	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Copper, Total	30	1	0.516	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Iron, Total	17900	1000	366	mg/kg dry	07/09/04	JMF	USEPA-6010B
Lead, Total	298	50	3.88	mg/kg dry	07/07/04	DSC	USEPA-6020
Magnesium, Total	2620	250	38.4	mg/kg dry	07/09/04	JMF	USEPA-6010B
Manganese, Total	380	5	2.37	mg/kg dry	07/09/04	JMF	USEPA-6010B
Mercury, Total	0.30	0.1	0.0077	mg/kg dry	07/08/04	MSG	USEPA-7471A
Nickel, Total	17	0.5	0.0775	mg/kg dry	07/07/04	DSC	USEPA-6020
Potassium, Total	1060	250	39.0	mg/kg dry	07/09/04	JMF	USEPA-6010B
Selenium, Total	0.27 J	1	0.0486	mg/kg dry	07/07/04	DSC	USEPA-6020
Silver, Total	1 U	1	0.450	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Sodium, Total	70	50	31.4	mg/kg dry	07/07/04	KLVM	USEPA-6010B
Thallium, Total	0.15 J	1	0.0733	mg/kg dry	07/07/04	DSC	USEPA-6020
Vanadium, Total	24	1	0.0409	mg/kg dry	07/07/04	DSC	USEPA-6020
Zinc, Total	200	50	15.0	mg/kg dry	07/07/04	DSC	USEPA-6020

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LDC Report# 12274A2

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Totten

Collection Date: June 21 through July 1, 2004

LDC Report Date: September 20, 2004

Matrix: Soil/Water

Parameters: Semivolatiles

Validation Level: EPA Level IV

Laboratory: TriMatrix Laboratories, Inc.

Sample Delivery Group (SDG): 36620-1

Sample Identification

Ad2004-SS-1-SH	Ad2004-SS-10-DP
Ad2004-SS-1-DP	Ad2004-SS-11-SH
Ad2004-SS-2-SH	Ad2004-SS-11-SHRE
Ad2004-SS-2-DP	Ad2004-SS-11-DP
Ad2004-SS-2-DPRE	Ad2004-SS-12-SH
Ad2004-SS-3-SH	Ad2004-SS-12-SHRE
Ad2004-SS-3-DP	Ad2004-SS-12-DP
Ad2004-SS-4-SH	Ad2004-SS-25-SH
Ad2004-SS-4-DP	Ad2004-SS-25-SHRE
Ad2004-SS-5-SH	Ad2004-SS-29-SH
Ad2004-SS-5-SHRE	Ad2004-SS-8-SH
Ad2004-SS-5-DP	Ad2004-SS-8-DP
Ad2004-SS-6-SH	Ad2004-SS-6-SHMS
Ad2004-SS-6-SHRE	Ad2004-SS-6-SHMSD
Ad2004-SS-6-DP	Ad2004-SS-6-SHREMS
Ad2004-SS-7-SH	Ad2004-SS-6-SHREMSD
Ad2004-SS-7-DP	Ad2004-SS-12-DPMS
Ad2004-SS-9-SH	Ad2004-SS-12-DPMSD
Ad2004-SS-9-DP	
Ad2004-SS-10-SH	

Introduction

This data review covers 38 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5), USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio (March 1979), 40CFR Part 792 on Good Laboratory Practice Standards, and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 20.5% for each individual compound and less than or equal to 100.0% for selected compounds with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
7/1/04	Hexachloroethane	20.7	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP Ad2004-SS-6-SHMS Ad2004-SS-6-SHMSD 97197-129MB 97201-129MB	J (all detects) UJ (all non-detects)	A

A curve fit, based on the initial calibration, was established for quantitation for selected compounds. The coefficient of determination (r^2) was greater than or equal to 0.990 with the following exceptions:

Date	Compound	r^2	Associated Samples	Flag	A or P
7/1/04	4-Chloroaniline 3,3'-Dichlorobenzidine Chrysene Pyrene Benzo(k)fluoranthene Indeno(1,2,3-cd)pyrene	0.982 0.979 0.978 0.982 0.980 0.975	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP Ad2004-SS-6-SHMS Ad2004-SS-6-SHMSD 97197-129MB 97201-129MB	J (all detects) UJ (all non-detects)	A

Average relative response factors (RRF) for all semivolatile target compounds were greater than or equal to 0.05 as required.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for each individual compound and less than or equal to 100.0% for selected compounds with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
7/1/04	Benzo(k)fluoranthene	29	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-5-SH Ad2004-SS-6-SH Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-10-SH	J (all detects)	A

All of the continuing calibration RRF values were greater than or equal to 0.05 .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
Ad2004-SS-8-SH Ad2004-SS-8-DP	All TCL compounds	No MS/MSD associated with these samples.	MS/MSD required.	None	P

Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
Ad2004-SS-6-SHMS/MSD (Ad2004-SS-6-SH)	Phenanthrene Di-n-butylphthalate 2,4-Dinitrotoluene	120 (67-116) - -	- 139 (62-126) 92 (28-89)	- - -	J (all detects) J (all detects) J (all detects)	A
Ad2004-SS-6-SHMS/MSD (Ad2004-SS-6-SH)	Indeno(1,2,3-cd)pyrene	18 (63-123)	19 (63-123)	-	J (all detects) UJ (all non-detects)	A
Ad2004-SS-12-DPMS/MSD (Ad2004-SS-12-DP)	Butylbenzylphthalate Phenol	122 (61-120) -	- 95 (26-90)	- -	J (all detects) J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
97201-102LCS/D (Ad2004-SS-8-SH Ad2004-SS-8-DP 97201-102MB)	Bis(2-chloroisopropyl)ether	115 (32-109)	111 (32-109)	-	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

Sample	Internal Standards	RT (Limits)	Compound	Flag	A or P
Ad2004-SS-12-SH	Perylene-d12	30.11 mins. (29.04-30.04)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	JN (all detects) UJ (all non-detects)	P

XI. Target Compound Identifications

All target compound identifications were within validation criteria with the following exceptions:

Sample	Compound	Finding	Flag	A or P
Ad2004-SS-12-DP	4-Methylphenol	Sample results co-eluted with 3-Methylphenol	J (all detects)	A

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Reported Concentration (mg/Kg)	Recalculated Concentration (mg/Kg)	Flag	A or P
Ad2004-SS-1-SH	Benzo(a)pyrene	0.14	0.12456	J (all detects)	A
	Benzo(b)fluoranthene	0.11	0.09801	J (all detects)	
	Benzo(g,h,i)perylene	0.11	0.09067	J (all detects)	
	Benzo(k)fluoranthene	0.061	0.06738	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.11	0.13654	J (all detects)	
	Chrysene	0.12	0.14107	J (all detects)	
	Dibenz(a,h)anthracene	0.036	0.04170	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.14	0.07709	J (all detects)	
	Pyrene	0.2	0.22190	J (all detects)	
AD2004-SS-1-DP	Benzo(b)fluoranthene	0.073	0.06562	J (all detects)	A
	Benzo(g,h,i)perylene	0.073	0.03072	J (all detects)	
	Benzo(k)flouranthene	0.049	0.06122	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.074	0.09194	J (all detects)	
	Dibenzo(a,h)anthracene	0.026	0.03635	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.072	0.04419	J (all detects)	
	Pyrene	0.130	0.14572	J (all detects)	
AD2004-SS-2-SH	Benzo(g,h,i)perylene	0.26	0.22288	J (all detects)	A
	Benzo(k)flouranthene	0.18	0.14616	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.058	0.07034	J (all detects)	
	Dibenzo(a,h)anthracene	0.14	0.11475	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.35	0.18739	J (all detects)	
				J (all detects)	
AD2004-SS-2-DP	Benzo(g,h,i)perylene	0.31	0.28596	J (all detects)	A
	Benzo(k)flouranthene	0.23	0.18711	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.11	0.13780	J (all detects)	
	Dibenzo(a,h)anthracene	0.19	0.16031	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.44	0.23681	J (all detects)	
AD2004-SS-3-SH	Benzo(a)pyrene	0.12	0.10724	J (all detects)	A
	Benzo(b)fluoranthene	0.099	0.08692	J (all detects)	
	Benzo(g,h,i)perylene	0.097	0.08300	J (all detects)	
	Benzo(k)flouranthene	0.057	0.06738	J (all detects)	
	Chrysene	0.12	0.14006	J (all detects)	
	Dibenzo(a,h)anthracene	0.033	0.04122	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.12	0.07186	J (all detects)	
	Pyrene	0.20	0.22310	J (all detects)	
AD2004-SS-3-DP	Bis(2-ethylhexyl)phthalate	0.063	0.07618	J (all detects)	A
	Pyrene	0.015	-0.01146	J (all detects)	
AD2004-SS-4-SH	Benzo(a)pyrene	0.29	0.25935	J (all detects)	A
	Benzo(g,h,i)perylene	0.23	0.18795	J (all detects)	
	Benzo(k)flouranthene	0.26	0.21633	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.028	0.02375	J (all detects)	
	Dibenzo(a,h)anthracene	0.10	0.08658	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.24	0.17366	J (all detects)	
AD2004-SS-4-DP	Di-n-butylphthalate	0.042	0.03257	J (all detects)	A
AD2004-SS-5-SH	Benzo(a)anthracene	0.88	0.69491	J (all detects)	A
	Benzo(g,h,i)perylene	0.58	0.60573	J (all detects)	
	Benzo(k)flouranthene	0.94	1.14802	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.057	0.06736	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.60	0.49166	J (all detects)	

Sample	Compound	Reported Concentration (mg/Kg)	Recalculated Concentration (mg/Kg)	Flag	A or P
AD2004-SS-5-DP	Benzo(a)pyrene	0.041	0.05203	J (all detects)	A
	Benzo(g,h,i)perylene	0.033	0.04391	J (all detects)	
	Benzo(k)flouranthene	0.029	0.04897	J (all detects)	
	Chrysene	0.033	0.01073	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.024	0.00940	J (all detects)	
	Pyrene	0.038	0.02691	J (all detects)	
AD2004-SS-6-SH	Benzo(g,h,i)perylene	0.69	0.72416	J (all detects)	A
	Bis(2-ethylhexyl)phthalate	0.094	0.11836	J (all detects)	
	Dibenzo(a,h)anthracene	0.078	0.06890	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.75	0.45674	J (all detects)	
AD2004-SS-6-DP	Benzo(a)pyrene	0.15	0.13366	J (all detects)	A
	Benzo(b)fluoranthene	0.13	0.11331	J (all detects)	
	Benzo(g,h,i)perylene	0.14	0.11255	J (all detects)	
	Benzo(k)flouranthene	0.14	0.11911	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.17	0.20924	J (all detects)	
	Chrysene	0.12	0.13749	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.12	0.10140	J (all detects)	
	Pyrene	0.16	0.17816	J (all detects)	
AD2004-SS-7-SH	Benzo(a)pyrene	0.16	0.13913	J (all detects)	A
	Benzo(b)fluoranthene	0.093	0.08200	J (all detects)	
	Benzo(g,h,i)perylene	0.12	0.10033	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.062	0.07419	J (all detects)	
	Chrysene	0.16	0.17940	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.14	0.07627	J (all detects)	
AD2004-SS-7-DP	Benzo(a)pyrene	0.30	0.26819	J (all detects)	A
	Benzo(b)fluoranthene	0.19	0.16943	J (all detects)	
	Benzo(g,h,i)perylene	0.25	0.20869	J (all detects)	
	Benzo(k)flouranthene	0.18	0.14713	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.026	0.01978	J (all detects)	
	Dibenzo(a,h)anthracene	0.12	0.09972	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.28	0.16840	J (all detects)	
AD2004-SS-9-DP	Bis(2-ethylhexyl)phthalate	0.021	0.01028	J (all detects)	A
	Pyrene	0.0095	-0.02220	J (all detects)	
AD2004-SS-9-SH	Benzo(a)pyrene	0.038	0.05073	J (all detects)	A
	Benzo(k)flouranthene	0.019	0.04432	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.026	0.01717	J (all detects)	
	Chrysene	0.036	0.01555	J (all detects)	
	Pyrene	0.04	0.02847	J (all detects)	
AD2004-SS-10-SH	Benzo(g,h,i)perylene	0.069	0.06606	J (all detects)	A
	Benzo(k)flouranthene	0.068	0.07495	J (all detects)	
	Bis(2-ethylhexyl)phthalate	0.053	0.06105	J (all detects)	
	Chrysene	0.12	0.13240	J (all detects)	
	Indeno(1,2,3-cd)pyrene	0.086	0.05211	J (all detects)	
	Pyrene	0.16	0.17991	J (all detects)	

Sample	Compound	Finding	Criteria	Flag	A or P
Ad2004-SS-2-DP	Fluoranthene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A
Ad2004-SS-5-SH	Fluoranthene Pyrene Benzo(b)fluoranthene Benzo(a)pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects) J (all detects)	A
Ad2004-SS-6-SH	Benzo(a)pyrene Benzo(b)fluoranthene Di-n-butylphthalate Fluoranthene Phenanthrene Pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
Ad2004-SS-11-SH	Pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A
Ad2004-SS-12-SH	Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Phenanthrene Pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
Ad2004-SS-25-SH	Benzo(a)anthracene Chrysene Fluoranthene Indeno(1,2,3-cd)pyrene Pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

Samples Ad2004-SS-5-SH and Ad2004-SS-25-SH, samples Ad2004-SS-5-SHRE and Ad2004-SS-25-SHRE, and samples Ad2004-SS-9-SH and Ad2004-SS-29-SH were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-5-SH	Ad2004-SS-25-SH	
2-Methylnaphthalene	0.0091	0.014	42
4-Chloro-3-methylphenol	0.0059	0.0094	46
Acenaphthene	0.014	0.03	73
Acenaphthylene	0.27	0.34	23
Anthracene	0.15	0.28	60
Benzo(a)nthracene	0.88	1.6	58
Benzo(a)pyrene	1.3	0.930	33
Benzo(b)fluorantene	1.1	0.71	43
Benzo(g,h,i)perylene	0.58	0.84	37
Benzo(k)fluorantene	0.94	0.42	76
Bis(2-ethyhexyl)phthalate	0.057	0.12	71
Butylbenzylphthalate	0.012	0.033U	200
Carbazole	0.061	0.080	27
Chrysene	0.73	1.3	56
Dibenzo(a,h)anthracene	0.39	0.25	44
Di-n-butylphthalate	0.046	0.036	24
Fluoranthene	1.6	1.6	0

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-5-SH	Ad2004-SS-25-SH	
Fluorene	0.04	0.031	25
Indeno(1,2,3-cd)pyrene	0.6	1.5	86
Naphthalene	0.012	0.010	18
Phenanthrene	0.49	0.51	4
Pyrene	1.1	7.7	150

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-5-SHRE	Ad2004-SS-25-SHRE	
Acenaphthene	0.028	0.035	22
Acenaphthylene	0.53	0.27	65
Anthracene	0.33	0.20	49
Benzo(a)anthracene	1.0	1.4	33
Benzo(a)pyrene	1.1	1.2	9
Benzo(b)fluorantene	0.88	1.3	39
Benzo(g,h,i)perylene	0.74	0.88	17
Benzo(k)fluoranthene	0.93	0.66	34
Bis(2-ethyhexyl)phthalate	0.084	0.10	17
Butylbenzylphthalate	0.012	0.033U	200
Carbazole	0.082	0.079	4
Chrysene	1.1	1.4	24
Dibenzo(a,h)anthracene	0.33	0.32	3

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-5-SHRE	Ad2004-SS-25-SHRE	
Di-n-butylphthalate	0.062	0.055	12
Fluoranthene	1.6	1.8	12
Fluorene	0.026	0.083U	200
Indeno(1,2,3-cd)pyrene	0.82	1.0	20
Phenanthrene	0.48	0.48	0
Pyrene	1.4	1.8	25

Compound	Concentration (ug/Kg)		RPD
	Ad2004-SS-9-SH	Ad2004-SS-29-SH	
4-Chloro-3-methylphenol	0.033U	0.0096	200
Benzo(a)anthracene	0.033U	0.021	200
Benzo(a)pyrene	0.033U	0.023	200
Benzo(b)fluorantene	0.033U	0.024	200
Bis(2-ethylhexyl)phthalate	0.021	0.026	21
Chrysene	0.033U	0.019	200
Di-n-butylphthalate	0.32	0.033	163
Fluoranthene	0.033U	0.033	200
Phenanthrene	0.033U	0.016	200
Pyrene	0.0095	0.038	120

Fort Totten
Semivolatiles - Data Qualification Summary - SDG 36620-1

SDG	Sample	Compound	Flag	A or P	Reason
36620-1	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP	Hexachloroethane	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
36620-1	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP	4-Chloroaniline 3,3'-Dichlorobenzidine Chrysene Pyrene Benzo(k)fluoranthene Indeno(1,2,3-cd)pyrene	J (all detects) UJ (all non-detects)	A	Initial calibration (r^2)
36620-1	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-5-SH Ad2004-SS-6-SH Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-10-SH	Benzo(k)fluoranthene	J (all detects)	A	Continuing calibration (%D)

SDG	Sample	Compound	Flag	A or P	Reason
36620-1	Ad2004-SS-8-SH Ad2004-SS-8-DP	All TCL compounds	None	P	Matrix spike/Matrix spike duplicates
36620-1	Ad2004-SS-6-SH	Phenanthrene Di-n-butylphthalate 2,4-Dinitrotoluene	J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)
36620-1	Ad2004-SS-6-SH	Indeno(1,2,3-cd)pyrene	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicates (%R)
36620-1	Ad2004-SS-12-DP	Butylbenzylphthalate Phenol	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)
36620-1	Ad2004-SS-8-SH Ad2004-SS-8-DP	Bis(2-chloroisopropyl)ether	J (all detects)	P	Laboratory control samples (%R)
36620-1	Ad2004-SS-12-SH	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	JN (all detects) UJ (all non-detects)	P	Internal standards (RT)
36620-1	Ad2004-SS-12-DP	4-Methylphenol	J (all detects)	A	Target compound identification (co-elution)
36620-1	Ad2004-SS-1-SH	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Bis(2-ethylhexyl)phthalate Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-1-DP	Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-2-SH	Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)

SDG	Sample	Compound	Flag	A or P	Reason
36620-1	AD2004-SS-2-DP	Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-3-SH	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)flouranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-3-DP	Bis(2-ethylhexyl)phthalate Pyrene	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-4-SH	Benzo(a)pyrene Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-4-DP	Di-n-butylphthalate	J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-5-SH	Benzo(a)anthracene Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Indeno(1,2,3-cd)pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-5-DP	Benzo(a)pyrene Benzo(g,h,i)perylene Benzo(k)flouranthene Chrysene Indeno(1,2,3-cd)pyrene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-6-SH	Benzo(g,h,i)perylene Bis(2-ethylhexyl)phthalate Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)

SDG	Sample	Compound	Flag	A or P	Reason
36620-1	AD2004-SS-6-DP	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Chrysene Indeno(1,2,3-cd)pyrene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-7-SH	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Bis(2-ethylhexyl)phthalate Chrysene Indeno(1,2,3-cd)pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-7-DP	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-9-DP	Bis(2-ethylhexyl)phthalate Pyrene	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-9-SH	Benzo(a)pyrene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Chrysene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	AD2004-SS-10-SH	Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Chrysene Indeno(1,2,3-cd)pyrene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (recalculation)
36620-1	Ad2004-SS-2-DP	Fluoranthene	J (all detects)	A	Compound quantitation and CRQLs
36620-1	Ad2004-SS-5-SH	Fluoranthene Pyrene Benzo(b)fluoranthene Benzo(a)pyrene	J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs

SDG	Sample	Compound	Flag	A or P	Reason
36620-1	Ad2004-SS-6-SH	Benzo(a)pyrene Benzo(b)fluoranthene Di-n-butylphthalate Fluoranthene Phenanthrene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs
36620-1	Ad2004-SS-11-SH	Pyrene	J (all detects)	A	Compound quantitation and CRQLs
36620-1	Ad2004-SS-12-SH	Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Phenanthrene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs
36620-1	Ad2004-SS-25-SH	Benzo(a)anthracene Chrysene Fluoranthene Indeno(1,2,3-cd)pyrene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs

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Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 36620-1

No Sample Data Qualified in this SDG

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Semivolatiles - Field Blank Data Qualification Summary - SDG 36620-1

No Sample Data Qualified in this SDG

ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:50
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-1-SH**	QC Batch:	97197 -129
Sample #:	**364032**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	90
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	**Acenaphthene**	**0.0060 J**	0.033	0.00579
208-96-8	**Acenaphthylene**	**0.0089 J**	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.021 J**	0.033	0.00795

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:50
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-1-SH**	QC Batch:	97197 -129
Sample #:	**364032**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	90
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.13**		0.033	0.00923
50-32-8	**Benzo (a) Pyrene**	**0.14**	J	0.033	0.00917
205-99-2	**Benzo (b) Fluoranthene**	**0.11**	J	0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.11**	J	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.061 J**	J	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.11**	J	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0131
85-68-7	**Butyl Benzyl Phthalate**	**0.034**		0.033	0.00756
86-74-8	**Carbazole**	**0.011 J**		0.033	0.00733
218-01-9	**Chrysene**	**0.12**	J	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.036 J**	J	0.066	0.0168
132-64-9	Dibenzofuran	0.033 U		0.033	0.00803
84-66-2	Diethylphthalate	0.033 U		0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.049**		0.033	0.00853
117-84-0	**Di-n-Octylphthalate**	**0.010 J**		0.033	0.00691
206-44-0	**Fluoranthene**	**0.19**		0.033	0.00999
86-73-7	Fluorene	0.033 U		0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00523
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.14**	J	0.033	0.0109
78-59-1	Isophorone	0.033 U		0.033	0.00450
91-20-3	Naphthalene	0.033 U		0.033	0.00589
98-95-3	Nitrobenzene	0.033 U		0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00800

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:50
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-1-SH**	QC Batch:	97197 -129
Sample #:	**364032**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	90
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00552
85-01-8	**Phenanthrene**	**0.092**		0.033	0.00844
108-95-2	Phenol	0.033 U		0.033	0.00898
129-00-0	**Pyrene**	**0.20**	J	0.033	0.00686

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-1-DP**	QC Batch:	97197 -129
Sample #:	**364033**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	**4-Chloro-3-Methylphenol**	**0.0080 J**	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	Acenaphthene	0.033 U	0.033	0.00579
208-96-8	Acenaphthylene	0.033 U	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.013 J**	0.033	0.00795

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-1-DP**	QC Batch:	97197 -129
Sample #:	**364033**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.075**		0.033	0.00923
50-32-8	**Benzo (a) Pyrene**	**0.10**		0.033	0.00917
205-99-2	**Benzo (b) Fluoranthene**	**0.073**	J	0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.073**	J	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.049 J**	J	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.074**	J	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0131
85-68-7	**Butyl Benzyl Phthalate**	**0.015 J**		0.033	0.00756
86-74-8	**Carbazole**	**0.0075 J**		0.033	0.00733
218-01-9	**Chrysene**	**0.080**	J	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.026 J**	J	0.066	0.0168
132-64-9	Dibenzofuran	0.033 U		0.033	0.00803
84-66-2	Diethylphthalate	0.033 U		0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.060**		0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00691
206-44-0	**Fluoranthene**	**0.12**		0.033	0.00999
86-73-7	Fluorene	0.033 U		0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00523
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.072**	J	0.033	0.0109
78-59-1	Isophorone	0.033 U		0.033	0.00450
91-20-3	Naphthalene	0.033 U		0.033	0.00589
98-95-3	Nitrobenzene	0.033 U		0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00800

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-1-DP**	QC Batch:	97197 -129
Sample #:	**364033**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00552
85-01-8	**Phenanthrene**	**0.064**		0.033	0.00844
108-95-2	Phenol	0.033 U		0.033	0.00898
129-00-0	**Pyrene**	**0.13**	J	0.033	0.00686

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:25
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-2-SH**	QC Batch:	97197 -129
Sample #:	**364034**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	94
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	**2-Methylnaphthalene**	**0.011 J**	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	**4-Chloro-3-Methylphenol**	**0.0056 J**	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	**Acenaphthene**	**0.011 J**	0.033	0.00579
208-96-8	**Acenaphthylene**	**0.061**	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.048**	0.033	0.00795

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:25
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
Submittal #:	**36620-1**	Prepared:	06/29/04 by PAK
Submittal:	June, 2004 Sampling Event	Prep. Method:	USEPA-3550B
	Fort Totten	Analyzed:	07/01/04 by DMC
Sample ID:	**Ad2004- SS-2-SH**	Anal. Method:	USEPA-8270C
Sample #:	**364034**	QC Batch:	97197 -129
Matrix:	Soil	Anal. Batch:	218550
Unit:	mg/kg dry	Percent Solids:	94
		Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.43**		0.033	0.00923
50-32-8	**Benzo (a) Pyrene**	**0.35**		0.033	0.00917
205-99-2	**Benzo (b) Fluoranthene**	**0.28**		0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.26**	J	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.18**	J	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.058**	J	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0131
85-68-7	**Butyl Benzyl Phthalate**	**0.016 J**		0.033	0.00756
86-74-8	**Carbazole**	**0.029 J**		0.033	0.00733
218-01-9	**Chrysene**	**0.38**	J	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.14**	J	0.066	0.0168
132-64-9	Dibenzofuran	0.033 U		0.033	0.00803
84-66-2	Diethylphthalate	0.033 U		0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.053**		0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00691
206-44-0	**Fluoranthene**	**0.59**		0.033	0.00999
86-73-7	**Fluorene**	**0.012 J**		0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00523
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.35**	J	0.033	0.0109
78-59-1	Isophorone	0.033 U		0.033	0.00450
91-20-3	**Naphthalene**	**0.011 J**		0.033	0.00589
98-95-3	Nitrobenzene	0.033 U		0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00800

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:25
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
Submittal #:	**36620-1**	Prepared:	06/29/04 by PAK
Submittal:	June, 2004 Sampling Event	Prep. Method:	USEPA-3550B
	Fort Totten	Analyzed:	07/01/04 by DMC
Sample ID:	**Ad2004- SS-2-SH**	Anal. Method:	USEPA-8270C
Sample #:	**364034**	QC Batch:	97197 -129
Matrix:	Soil	Anal. Batch:	218550
Unit:	mg/kg dry	Percent Solids:	94
		Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00552
85-01-8	**Phenanthrene**	**0.17**	0.033	0.00844
108-95-2	Phenol	0.033 U	0.033	0.00898
129-00-0	**Pyrene**	**0.56** J	0.033	0.00686

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-2-DP**
Sample #: **364035**
Matrix: Soil
Unit: mg/kg dry

Sampled: 06/21/04 @ 17:30
Sampler: V. Griffin
Received: 06/25/04 @ 08:40
Prepared: 06/29/04 by PAK
Prep. Method: USEPA-3550B
Analyzed: 07/01/04 by DMC
Anal. Method: USEPA-8270C
QC Batch: 97197 -129
Anal. Batch: 218550
Percent Solids: 95
Dilution Factor: 1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U		0.033	0.00495
95-50-1	1,2-Dichlorobenzene	0.033 U		0.033	0.00335
541-73-1	1,3-Dichlorobenzene	0.033 U		0.033	0.00421
106-46-7	1,4-Dichlorobenzene	0.033 U		0.033	0.00526
95-95-4	2,4,5-Trichlorophenol	0.033 U		0.033	0.00517
88-06-2	2,4,6-Trichlorophenol	0.033 U		0.033	0.00637
120-83-2	2,4-Dichlorophenol	0.033 U		0.033	0.00345
105-67-9	2,4-Dimethylphenol	0.17 U		0.17	0.0127
51-28-5	2,4-Dinitrophenol	0.033 U		0.033	0.00313
121-14-2	2,4-Dinitrotoluene	0.033 U		0.033	0.00778
606-20-2	2,6-Dinitrotoluene	0.033 U		0.033	0.00822
91-58-7	2-Chloronaphthalene	0.033 U		0.033	0.00671
95-57-8	2-Chlorophenol	0.033 U		0.033	0.00561
91-57-6	**2-Methylnaphthalene**	**0.045**		0.033	0.00604
95-48-7	2-Methylphenol	0.033 U		0.033	0.00505
88-74-4	2-Nitroaniline	0.033 U		0.033	0.00639
88-75-5	2-Nitrophenol	0.033 U		0.033	0.00447
91-94-1	3,3'-Dichlorobenzidine	2.0 U	UJ	2.0	0.143
99-09-2	3-Nitroaniline	0.033 U		0.033	0.00461
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U		0.033	0.00550
101-55-3	4-Bromophenyl Phenylether	0.033 U		0.033	0.00571
59-50-7	**4-Chloro-3-Methylphenol**	**0.0066 J**		0.033	0.00501
106-47-8	4-Chloroaniline	0.17 U	UJ	0.17	0.0215
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U		0.033	0.00933
106-44-5	4-Methylphenol	0.033 U		0.033	0.00488
100-01-6	4-Nitroaniline	0.033 U		0.033	0.00577
100-02-7	4-Nitrophenol	0.066 U		0.066	0.0130
83-32-9	**Acenaphthene**	**0.018 J**		0.033	0.00526
208-96-8	**Acenaphthylene**	**0.16**		0.033	0.00609
62-53-3	Aniline	0.17 U		0.17	0.00373
120-12-7	**Anthracene**	**0.10**		0.033	0.00723

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-2-DP**	QC Batch:	97197 -129
Sample #:	**364035**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	95
Unit:	mg/kg dry	Dilution Factor:	1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.61**		0.033	0.00839
50-32-8	**Benzo (a) Pyrene**	**0.50**		0.033	0.00834
205-99-2	**Benzo (b) Fluoranthene**	**0.45**		0.066	0.0197
191-24-2	**Benzo (g,h,i,) Perylene**	**0.31**	J	0.033	0.00778
207-08-9	**Benzo (k) Fluoranthene**	**0.23**	J	0.066	0.0134
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00436
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00480
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.11**	J	0.033	0.00692
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0119
85-68-7	**Butyl Benzyl Phthalate**	**0.031 J**		0.033	0.00687
86-74-8	**Carbazole**	**0.040**		0.033	0.00666
218-01-9	**Chrysene**	**0.51**	J	0.033	0.00689
53-70-3	**Dibenzo (a,h) Anthracene**	**0.19**	J	0.066	0.0153
132-64-9	**Dibenzofuran**	**0.016 J**		0.033	0.00730
84-66-2	Diethylphthalate	0.033 U		0.033	0.00865
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00752
84-74-2	**Di-n-Butylphthalate**	**0.091**		0.033	0.00775
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00628
206-44-0	***Fluoranthene**	**1.0**	J	0.033	0.00908
86-73-7	**Fluorene**	**0.036**	~~J~~ MH	0.033	0.00970
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.00882
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00448
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00475
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00436
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.44**	J	0.033	0.00993
78-59-1	Isophorone	0.033 U		0.033	0.00409
91-20-3	**Naphthalene**	**0.018 J**		0.033	0.00535
98-95-3	Nitrobenzene	0.033 U		0.033	0.00371
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00537
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00727

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-2-DP**	QC Batch:	97197 -129
Sample #:	**364035**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	95
Unit:	mg/kg dry	Dilution Factor:	1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00502
85-01-8	**Phenanthrene**	**0.44**		0.033	0.00767
108-95-2	Phenol	0.033 U		0.033	0.00816
129-00-0	**Pyrene**	**0.79**	J	0.033	0.00624

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/02/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-2-DP**	QC Batch:	97197 -129
Sample #:	**364035RE**	Anal. Batch:	218553
Matrix:	Soil	Percent Solids:	95
Unit:	mg/kg dry	Dilution Factor:	2.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.0104
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00704
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00884
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.0110
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.0109
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.0134
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00725
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0267
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00657
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.0163
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.0173
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.0141
95-57-8	2-Chlorophenol	0.033 U	0.033	0.0118
91-57-6	**2-Methylnaphthalene**	**0.039**	0.033	0.0127
95-48-7	2-Methylphenol	0.033 U	0.033	0.0106
88-74-4	2-Nitroaniline	0.033 U	0.033	0.0134
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00939
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	0.300
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00968
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.0116
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.0120
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.0105
106-47-8	4-Chloroaniline	0.17 U	0.17	0.0452
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0196
106-44-5	4-Methylphenol	0.033 U	0.033	0.0102
100-01-6	4-Nitroaniline	0.033 U	0.033	0.0121
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0273
83-32-9	**Acenaphthene**	**0.026 J**	0.033	0.0110
208-96-8	**Acenaphthylene**	**0.25**	0.033	0.0128
62-53-3	Aniline	0.17 U	0.17	0.00783
120-12-7	**Anthracene**	**0.17**	0.033	0.0152

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/02/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-2-DP**	QC Batch:	97197 -129
Sample #:	**364035RE**	Anal. Batch:	218553
Matrix:	Soil	Percent Solids:	95
Unit:	mg/kg dry	Dilution Factor:	2.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.66**	0.033	0.0176
50-32-8	**Benzo (a) Pyrene**	**0.64**	0.033	0.0175
205-99-2	**Benzo (b) Fluoranthene**	**0.54**	0.066	0.0414
191-24-2	**Benzo (g,h,i,) Perylene**	**0.42**	0.033	0.0163
207-08-9	**Benzo (k) Fluoranthene**	**0.58**	0.066	0.0281
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.00916
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.0101
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.16**	0.033	0.0145
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0250
85-68-7	**Butyl Benzyl Phthalate**	**0.028 J**	0.033	0.0144
86-74-8	**Carbazole**	**0.050**	0.033	0.0140
218-01-9	**Chrysene**	**0.68**	0.033	0.0145
53-70-3	**Dibenzo (a,h) Anthracene**	**0.19**	0.066	0.0321
132-64-9	Dibenzofuran	0.033 U	0.033	0.0153
84-66-2	Diethylphthalate	0.033 U	0.033	0.0182
131-11-3	Dimethylphthalate	0.033 U	0.033	0.0158
84-74-2	**Di-n-Butylphthalate**	**0.10**	0.033	0.0163
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.0132
206-44-0	**Fluoranthene**	**1.0**	0.033	0.0191
86-73-7	**Fluorene**	**0.048**	0.033	0.0204
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.0185
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.00941
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.00998
67-72-1	Hexachloroethane	0.033 U	0.033	0.00916
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.46**	0.033	0.0209
78-59-1	Isophorone	0.033 U	0.033	0.00859
91-20-3	**Naphthalene**	**0.017 J**	0.033	0.0112
98-95-3	Nitrobenzene	0.033 U	0.033	0.00779
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.0113
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.0153

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/02/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-2-DP**	QC Batch:	97197 -129
Sample #:	**364035RE**	Anal. Batch:	218553
Matrix:	Soil	Percent Solids:	95
Unit:	mg/kg dry	Dilution Factor:	2.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	**Pentachlorophenol**	**0.018 J**	0.033	0.0105
85-01-8	**Phenanthrene**	**0.45**	0.033	0.0161
108-95-2	Phenol	0.033 U	0.033	0.0171
129-00-0	**Pyrene**	**1.0**	0.033	0.0131

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:50
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-3-SH**	QC Batch:	97197 -129
Sample #:	**364036**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U		0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U		0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U		0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U		0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U		0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U		0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U		0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U		0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U		0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U		0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U		0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U		0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U		0.033	0.00673
91-57-6	2-Methylnaphthalene	0.033 U		0.033	0.00725
95-48-7	2-Methylphenol	0.033 U		0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U		0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U		0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U	UJ	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U		0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U		0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U		0.033	0.00685
59-50-7	**4-Chloro-3-Methylphenol**	**0.0068 J**		0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U	UJ	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U		0.033	0.0112
106-44-5	4-Methylphenol	0.033 U		0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U		0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U		0.066	0.0156
83-32-9	Acenaphthene	0.033 U		0.033	0.00631
208-96-8	**Acenaphthylene**	**0.012 J**		0.033	0.00731
62-53-3	Aniline	0.17 U		0.17	0.00448
120-12-7	**Anthracene**	**0.016 J**		0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:50
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-3-SH**	QC Batch:	97197 -129
Sample #:	**364036**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.12**		0.033	0.0101
50-32-8	**Benzo (a) Pyrene**	**0.12**	J	0.033	0.0100
205-99-2	**Benzo (b) Fluoranthene**	**0.099**	J	0.066	0.0236
191-24-2	**Benzo (g,h,i,) Perylene**	**0.097**	J	0.033	0.00934
207-08-9	**Benzo (k) Fluoranthene**	**0.057 J**	J	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.041**		0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0143
85-68-7	**Butyl Benzyl Phthalate**	**0.016 J**		0.033	0.00824
86-74-8	**Carbazole**	**0.011 J**		0.033	0.00799
218-01-9	**Chrysene**	**0.12**	J	0.033	0.00827
53-70-3	**Dibenzo (a,h) Anthracene**	**0.033 J**	J	0.066	0.0184
132-64-9	Dibenzofuran	0.033 U		0.033	0.00876
84-66-2	Diethylphthalate	0.033 U		0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.036**		0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00754
206-44-0	**Fluoranthene**	**0.19**		0.033	0.0109
86-73-7	Fluorene	0.033 U		0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00570
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00523
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.12**	J	0.033	0.0119
78-59-1	Isophorone	0.033 U		0.033	0.00491
91-20-3	Naphthalene	0.033 U		0.033	0.00642
98-95-3	Nitrobenzene	0.033 U		0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00872

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:50
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-3-SH**	QC Batch:	97197 -129
Sample #:	**364036**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00602
85-01-8	**Phenanthrene**	**0.082**		0.033	0.00920
108-95-2	Phenol	0.033 U		0.033	0.00979
129-00-0	**Pyrene**	**0.20**	J	0.033	0.00749

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-3-DP**	QC Batch:	97197 -129
Sample #:	**364037**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.8

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00891
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00603
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00758
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00947
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00931
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.0115
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00621
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0229
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00563
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.0140
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.0148
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.0121
95-57-8	2-Chlorophenol	0.033 U	0.033	0.0101
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.0109
95-48-7	2-Methylphenol	0.033 U	0.033	0.00909
88-74-4	2-Nitroaniline	0.033 U	0.033	0.0115
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00805
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.257
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00830
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00990
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.0103
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00902
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0387
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0168
106-44-5	4-Methylphenol	0.033 U	0.033	0.00878
100-01-6	4-Nitroaniline	0.033 U	0.033	0.0104
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0234
83-32-9	Acenaphthene	0.033 U	0.033	0.00947
208-96-8	Acenaphthylene	0.033 U	0.033	0.0110
62-53-3	Aniline	0.17 U	0.17	0.00671
120-12-7	Anthracene	0.033 U	0.033	0.0130

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-3-DP**	QC Batch:	97197 -129
Sample #:	**364037**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.8

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	Benzo (a) Anthracene	0.033 U	0.033	0.0151
50-32-8	Benzo (a) Pyrene	0.033 U	0.033	0.0150
205-99-2	Benzo (b) Fluoranthene	0.066 U	0.066	0.0355
191-24-2	Benzo (g,h,i,) Perylene	0.033 U	0.033	0.0140
207-08-9	Benzo (k) Fluoranthene	0.066 U UJ	0.066	0.0241
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.00785
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.00864
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.063** J	0.033	0.0125
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0214
85-68-7	Butyl Benzyl Phthalate	0.033 U	0.033	0.0124
86-74-8	Carbazole	0.033 U	0.033	0.0120
218-01-9	Chrysene	0.033 U UJ	0.033	0.0124
53-70-3	Dibenzo (a,h) Anthracene	0.066 U	0.066	0.0275
132-64-9	Dibenzofuran	0.033 U	0.033	0.0131
84-66-2	Diethylphthalate	0.033 U	0.033	0.0156
131-11-3	Dimethylphthalate	0.033 U	0.033	0.0135
84-74-2	**Di-n-Butylphthalate**	**0.032 J**	0.033	0.0140
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.0113
206-44-0	**Fluoranthene**	**0.018 J**	0.033	0.0163
86-73-7	Fluorene	0.033 U	0.033	0.0175
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.0159
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.00806
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.00855
67-72-1	Hexachloroethane	0.033 U UJ	0.033	0.00785
193-39-5	Indeno (1,2,3-cd) Pyrene	0.033 U UJ	0.033	0.0179
78-59-1	Isophorone	0.033 U	0.033	0.00736
91-20-3	Naphthalene	0.033 U	0.033	0.00963
98-95-3	Nitrobenzene	0.033 U	0.033	0.00668
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.00967
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.0131

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004-SS-3-DP**	QC Batch:	97197 -129
Sample #:	**364037**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.8

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00904
85-01-8	Phenanthrene	0.033 U		0.033	0.0138
108-95-2	Phenol	0.033 U		0.033	0.0147
129-00-0	**Pyrene**	**0.015 J**	J	0.033	0.0112

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:40
Project:	Baltimbre District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-4-SH**	QC Batch:	97197 -129
Sample #:	**364038**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	89
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	**Acenaphthene**	**0.018 J**	0.033	0.00579
208-96-8	Acenaphthylene	0.033 U	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.059**	0.033	0.00795

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:40
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-4-SH**	QC Batch:	97197 -129
Sample #:	**364038**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	89
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.33**		0.033	0.00923
50-32-8	**Benzo (a) Pyrene**	**0.29**	J	0.033	0.00917
205-99-2	**Benzo (b) Fluoranthene**	**0.28**		0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.23**	J	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.26**	J	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.028 J**	J	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0131
85-68-7	Butyl Benzyl Phthalate	0.033 U		0.033	0.00756
86-74-8	**Carbazole**	**0.052**		0.033	0.00733
218-01-9	**Chrysene**	**0.32**	J	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.10**	J	0.066	0.0168
132-64-9	**Dibenzofuran**	**0.016 J**		0.033	0.00803
84-66-2	Diethylphthalate	0.033 U		0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.028 J**		0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00691
206-44-0	**Fluoranthene**	**0.76**		0.033	0.00999
86-73-7	**Fluorene**	**0.021 J**		0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00523
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.24**	J	0.033	0.0109
78-59-1	Isophorone	0.033 U		0.033	0.00450
91-20-3	**Naphthalene**	**0.011 J**		0.033	0.00589
98-95-3	Nitrobenzene	0.033 U		0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00800

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:40
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-4-SH**	QC Batch:	97197 -129
Sample #:	**364038**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	89
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00552
85-01-8	**Phenanthrene**	**0.49**		0.033	0.00844
108-95-2	Phenol	0.033 U		0.033	0.00898
129-00-0	**Pyrene**	**0.58**	J	0.033	0.00686

00209 7/04

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:45
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-4-DP**	QC Batch:	97197 -129
Sample #:	**364039**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	86
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00673
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00725
95-48-7	2-Methylphenol	0.033 U	0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00685
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0112
106-44-5	4-Methylphenol	0.033 U	0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0156
83-32-9	Acenaphthene	0.033 U	0.033	0.00631
208-96-8	Acenaphthylene	0.033 U	0.033	0.00731
62-53-3	Aniline	0.17 U	0.17	0.00448
120-12-7	Anthracene	0.033 U	0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:45
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-4-DP**	QC Batch:	97197 -129
Sample #:	**364039**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	86
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	Benzo (a) Anthracene	0.033 U	0.033	0.0101
50-32-8	Benzo (a) Pyrene	0.033 U	0.033	0.0100
205-99-2	Benzo (b) Fluoranthene	0.066 U	0.066	0.0236
191-24-2	Benzo (g,h,i,) Perylene	0.033 U	0.033	0.00934
207-08-9	Benzo (k) Fluoranthene	0.066 U UJ	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.24**	0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0143
85-68-7	Butyl Benzyl Phthalate	0.033 U	0.033	0.00824
86-74-8	Carbazole	0.033 U	0.033	0.00799
218-01-9	Chrysene	0.033 U UJ	0.033	0.00827
53-70-3	Dibenzo (a,h) Anthracene	0.066 U	0.066	0.0184
132-64-9	Dibenzofuran	0.033 U	0.033	0.00876
84-66-2	Diethylphthalate	0.033 U	0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U	0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.042** J	0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.00754
206-44-0	Fluoranthene	0.033 U	0.033	0.0109
86-73-7	Fluorene	0.033 U	0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.00570
67-72-1	Hexachloroethane	0.033 U UJ	0.033	0.00523
193-39-5	Indeno (1,2,3-cd) Pyrene	0.033 U UJ	0.033	0.0119
78-59-1	Isophorone	0.033 U	0.033	0.00491
91-20-3	Naphthalene	0.033 U	0.033	0.00642
98-95-3	Nitrobenzene	0.033 U	0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.00872

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 16:45
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-4-DP**	QC Batch:	97197 -129
Sample #:	**364039**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	86
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00602
85-01-8	Phenanthrene	0.033 U	0.033	0.00920
108-95-2	Phenol	0.033 U	0.033	0.00979
129-00-0	Pyrene	0.033 U UJ	0.033	0.00749

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00211

ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-5-SH**	QC Batch:	97197 -129
Sample #:	**364040**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	**2-Methylnaphthalene**	**0.0091 J**	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	**4-Chloro-3-Methylphenol**	**0.0059 J**	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	**Acenaphthene**	**0.014 J**	0.033	0.00579
208-96-8	**Acenaphthylene**	**0.27**	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.15**	0.033	0.00795

00212

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-5-SH**	QC Batch:	97197 -129
Sample #:	**364040**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.88** J	0.033	0.00923
50-32-8	***Benzo (a) Pyrene**	**1.3** J	0.033	0.00917
205-99-2	***Benzo (b) Fluoranthene**	**1.1** J	0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.58** J	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.94** J	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.057** J	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0131
85-68-7	**Butyl Benzyl Phthalate**	**0.012 J**	0.033	0.00756
86-74-8	**Carbazole**	**0.061**	0.033	0.00733
218-01-9	**Chrysene**	**0.73** J	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.39**	0.066	0.0168
132-64-9	**Dibenzofuran**	**0.011 J**	0.033	0.00803
84-66-2	Diethylphthalate	0.033 U	0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U	0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.046**	0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.00691
206-44-0	***Fluoranthene**	**1.6** J	0.033	0.00999
86-73-7	**Fluorene**	**0.040**	0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.00523
67-72-1	Hexachloroethane	0.033 U UJ	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.60** J	0.033	0.0109
78-59-1	Isophorone	0.033 U	0.033	0.00450
91-20-3	**Naphthalene**	**0.012 J**	0.033	0.00589
98-95-3	Nitrobenzene	0.033 U	0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.00800

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-5-SH**	QC Batch:	97197 -129
Sample #:	**364040**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00552
85-01-8	**Phenanthrene**	**0.49**	0.033	0.00844
108-95-2	Phenol	0.033 U	0.033	0.00898
129-00-0	***Pyrene**	**1.1** J	0.033	0.00686

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/02/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-5-SH**	QC Batch:	97197 -129
Sample #:	**364040RE**	Anal. Batch:	218553
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	2.3

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.0114
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00771
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00968
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.0121
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.0119
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.0147
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00794
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0292
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00720
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.0179
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.0189
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.0154
95-57-8	2-Chlorophenol	0.033 U	0.033	0.0129
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.0139
95-48-7	2-Methylphenol	0.033 U	0.033	0.0116
88-74-4	2-Nitroaniline	0.033 U	0.033	0.0147
88-75-5	2-Nitrophenol	0.033 U	0.033	0.0103
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	0.329
99-09-2	3-Nitroaniline	0.033 U	0.033	0.0106
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.0127
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.0131
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.0115
106-47-8	4-Chloroaniline	0.17 U	0.17	0.0495
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0215
106-44-5	4-Methylphenol	0.033 U	0.033	0.0112
100-01-6	4-Nitroaniline	0.033 U	0.033	0.0133
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0299
83-32-9	**Acenaphthene**	**0.028 J**	0.033	0.0121
208-96-8	**Acenaphthylene**	**0.53**	0.033	0.0140
62-53-3	Aniline	0.17 U	0.17	0.00858
120-12-7	**Anthracene**	**0.33**	0.033	0.0166

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/02/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-5-SH**	QC Batch:	97197 -129
Sample #:	**36404RE**	Anal. Batch:	218553
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	2.3

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**1.0**	0.033	0.0193
50-32-8	**Benzo (a) Pyrene**	**1.1**	0.033	0.0192
205-99-2	**Benzo (b) Fluoranthene**	**0.88**	0.066	0.0453
191-24-2	**Benzo (g,h,i,) Perylene**	**0.74**	0.033	0.0179
207-08-9	**Benzo (k) Fluoranthene**	**0.93**	0.066	0.0308
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.0100
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.0110
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.084**	0.033	0.0159
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0274
85-68-7	Butyl Benzyl Phthalate	0.033 U	0.033	0.0158
86-74-8	**Carbazole**	**0.082**	0.033	0.0153
218-01-9	**Chrysene**	**1.1**	0.033	0.0158
53-70-3	**Dibenzo (a,h) Anthracene**	**0.33**	0.066	0.0352
132-64-9	Dibenzofuran	0.033 U	0.033	0.0168
84-66-2	Diethylphthalate	0.033 U	0.033	0.0199
131-11-3	Dimethylphthalate	0.033 U	0.033	0.0173
84-74-2	**Di-n-Butylphthalate**	**0.062**	0.033	0.0178
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.0144
206-44-0	**Fluoranthene**	**1.6**	0.033	0.0209
86-73-7	**Fluorene**	**0.026 J**	0.033	0.0223
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.0203
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.0103
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.0109
67-72-1	Hexachloroethane	0.033 U	0.033	0.0100
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.82**	0.033	0.0228
78-59-1	Isophorone	0.033 U	0.033	0.00941
91-20-3	Naphthalene	0.033 U	0.033	0.0123
98-95-3	Nitrobenzene	0.033 U	0.033	0.00853
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.0124
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.0167

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/02/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-5-SH**	QC Batch:	97197 -129
Sample #:	**364040RE**	Anal. Batch:	218553
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	2.3

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.0115
85-01-8	**Phenanthrene**	**0.48**	0.033	0.0176
108-95-2	Phenol	0.033 U	0.033	0.0188
129-00-0	**Pyrene**	**1.4**	0.033	0.0144

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:05
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-5-DP**	QC Batch:	97197 -129
Sample #:	**364041**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	86
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00673
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00725
95-48-7	2-Methylphenol	0.033 U	0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00685
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0112
106-44-5	4-Methylphenol	0.033 U	0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0156
83-32-9	Acenaphthene	0.033 U	0.033	0.00631
208-96-8	Acenaphthylene	0.033 U	0.033	0.00731
62-53-3	Aniline	0.17 U	0.17	0.00448
120-12-7	Anthracene	0.033 U	0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:05
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-5-DP**	QC Batch:	97197 -129
Sample #:	**364041**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	86
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.028 J**		0.033	0.0101
50-32-8	**Benzo (a) Pyrene**	**0.041**	J	0.033	0.0100
205-99-2	**Benzo (b) Fluoranthene**	**0.036 J**		0.066	0.0236
191-24-2	**Benzo (g,h,i,) Perylene**	**0.033**	J	0.033	0.00934
207-08-9	**Benzo (k) Fluoranthene**	**0.029 J**	J	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.039**		0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0143
85-68-7	Butyl Benzyl Phthalate	0.033 U		0.033	0.00824
86-74-8	Carbazole	0.033 U		0.033	0.00799
218-01-9	**Chrysene**	**0.033**	J	0.033	0.00827
53-70-3	Dibenzo (a,h) Anthracene	0.066 U		0.066	0.0184
132-64-9	Dibenzofuran	0.033 U		0.033	0.00876
84-66-2	Diethylphthalate	0.033 U		0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.068**		0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00754
206-44-0	**Fluoranthene**	**0.040**		0.033	0.0109
86-73-7	Fluorene	0.033 U		0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00570
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00523
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.024 J**	J	0.033	0.0119
78-59-1	Isophorone	0.033 U		0.033	0.00491
91-20-3	Naphthalene	0.033 U		0.033	0.00642
98-95-3	Nitrobenzene	0.033 U		0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00872

00219 A 7/20/04

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:05
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-5-DP**	QC Batch:	97197 -129
Sample #:	**364041**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	86
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00602
85-01-8	**Phenanthrene**	**0.012 J**	0.033	0.00920
108-95-2	Phenol	0.033 U	0.033	0.00979
129-00-0	**Pyrene**	**0.038** J	0.033	0.00749

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00218

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:15
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-6-SH**	QC Batch:	97197 -129
Sample #:	**364042**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	**2-Methylnaphthalene**	**0.011 J**	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	**4-Chloro-3-Methylphenol**	**0.0082 J**	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	**Acenaphthene**	**0.022 J**	0.033	0.00579
208-96-8	**Acenaphthylene**	**0.18**	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.12**	0.033	0.00795

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:15
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-6-SH**	QC Batch:	97197 -129
Sample #:	**364042**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.97**	J	0.033	0.00923
50-32-8	***Benzo (a) Pyrene**	**1.2**	J	0.033	0.00917
205-99-2	***Benzo (b) Fluoranthene**	**1.1**	J	0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.69**	J	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.60**	J	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.094**	J	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0131
85-68-7	**Butyl Benzyl Phthalate**	**0.013 J**		0.033	0.00756
86-74-8	**Carbazole**	**0.062**		0.033	0.00733
218-01-9	**Chrysene**	**0.88**	J	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.078**	J	0.066	0.0168
132-64-9	**Dibenzofuran**	**0.016 J**		0.033	0.00803
84-66-2	Diethylphthalate	0.033 U		0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00827
84-74-2	***Di-n-Butylphthalate**	**0.10**	J	0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00691
206-44-0	***Fluoranthene**	**1.9**	J	0.033	0.00999
86-73-7	**Fluorene**	**0.032 J**		0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00523
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.75**	J	0.033	0.0109
78-59-1	Isophorone	0.033 U		0.033	0.00450
91-20-3	**Naphthalene**	**0.022 J**		0.033	0.00589
98-95-3	Nitrobenzene	0.033 U		0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00800

* See attached Statement of Data Qualifications.

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00220

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:15
Project:	Baltimbre District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-6-SH**	QC Batch:	97197 -129
Sample #:	**364042**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	**Pentachlorophenol**	**0.022 J**		0.033	0.00552
85-01-8	***Phenanthrene**	**0.55**	J	0.033	0.00844
108-95-2	Phenol	0.033 U		0.033	0.00898
129-00-0	***Pyrene**	**1.3**	J	0.033	0.00686

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:15
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/02/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-6-SH**	QC Batch:	97197 -129
Sample #:	**364042RE**	Anal. Batch:	218553
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	5.7

CAS Number	*Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.083 U	0.083	0.0282
95-50-1	1,2-Dichlorobenzene	0.083 U	0.083	0.0191
541-73-1	1,3-Dichlorobenzene	0.083 U	0.083	0.0240
106-46-7	1,4-Dichlorobenzene	0.083 U	0.083	0.0300
95-95-4	2,4,5-Trichlorophenol	0.083 U	0.083	0.0295
88-06-2	2,4,6-Trichlorophenol	0.083 U	0.083	0.0363
120-83-2	2,4-Dichlorophenol	0.083 U	0.083	0.0197
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0724
51-28-5	2,4-Dinitrophenol	0.083 U	0.083	0.0178
121-14-2	2,4-Dinitrotoluene	0.083 U	0.083	0.0443
606-20-2	2,6-Dinitrotoluene	0.083 U	0.083	0.0469
91-58-7	2-Chloronaphthalene	0.083 U	0.083	0.0382
95-57-8	2-Chlorophenol	0.083 U	0.083	0.0320
91-57-6	2-Methylnaphthalene	0.083 U	0.083	0.0344
95-48-7	2-Methylphenol	0.083 U	0.083	0.0288
88-74-4	2-Nitroaniline	0.083 U	0.083	0.0364
88-75-5	2-Nitrophenol	0.083 U	0.083	0.0255
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	0.815
99-09-2	3-Nitroaniline	0.083 U	0.083	0.0263
534-52-1	4,6-Dinitro-2-Methylphenol	0.083 U	0.083	0.0314
101-55-3	4-Bromophenyl Phenylether	0.083 U	0.083	0.0325
59-50-7	4-Chloro-3-Methylphenol	0.083 U	0.083	0.0286
106-47-8	4-Chloroaniline	0.17 U	0.17	0.123
7005-72-3	4-Chlorophenylphenyl-Ether	0.083 U	0.083	0.0532
106-44-5	4-Methylphenol	0.083 U	0.083	0.0278
100-01-6	4-Nitroaniline	0.083 U	0.083	0.0329
100-02-7	4-Nitrophenol	0.083 U	0.083	0.0741
83-32-9	**Acenaphthene**	**0.039 J**	0.083	0.0300
208-96-8	**Acenaphthylene**	**0.46**	0.083	0.0347
62-53-3	Aniline	0.17 U	0.17	0.0213
120-12-7	**Anthracene**	**0.28**	0.083	0.0412

* See attached Statement of Data Qualifications.

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00223

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:15
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/02/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-6-SH**	QC Batch:	97197 -129
Sample #:	**364042RE**	Anal. Batch:	218553
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	5.7

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**1.2**	0.083	0.0478
50-32-8	**Benzo (a) Pyrene**	**1.5**	0.083	0.0475
205-99-2	**Benzo (b) Fluoranthene**	**1.2**	0.22	0.112
191-24-2	**Benzo (g,h,i,) Perylene**	**1.1**	0.083	0.0443
207-08-9	**Benzo (k) Fluoranthene**	**1.3**	0.083	0.0764
111-44-4	Bis (2-Chloroethyl) Ether	0.083 U	0.083	0.0249
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.083 U	0.083	0.0274
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.13**	0.083	0.0394
111-91-1	Bis (2-Chloroethoxy)-Methane	0.083 U	0.083	0.0678
85-68-7	Butyl Benzyl Phthalate	0.083 U	0.083	0.0392
86-74-8	**Carbazole**	**0.085**	0.083	0.0380
218-01-9	**Chrysene**	**1.3**	0.083	0.0393
53-70-3	**Dibenzo (a,h) Anthracene**	**0.40**	0.17	0.0872
132-64-9	Dibenzofuran	0.083 U	0.083	0.0416
84-66-2	Diethylphthalate	0.083 U	0.083	0.0493
131-11-3	Dimethylphthalate	0.083 U	0.083	0.0429
84-74-2	**Di-n-Butylphthalate**	**0.12**	0.083	0.0442
117-84-0	Di-n-Octylphthalate	0.083 U	0.083	0.0358
206-44-0	**Fluoranthene**	**1.9**	0.083	0.0518
86-73-7	Fluorene	0.083 U	0.083	0.0553
118-74-1	Hexachlorobenzene	0.083 U	0.083	0.0503
87-68-3	Hexachlorobutadiene	0.083 U	0.083	0.0255
77-47-4	Hexachlorocyclopentadiene	0.083 U	0.083	0.0271
67-72-1	Hexachloroethane	0.083 U	0.083	0.0249
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**1.0**	0.083	0.0566
78-59-1	Isophorone	0.083 U	0.083	0.0233
91-20-3	Naphthalene	0.083 U	0.083	0.0305
98-95-3	Nitrobenzene	0.083 U	0.083	0.0211
621-64-7	N-Nitrosodi-n-Propylamine	0.083 U	0.083	0.0306
86-30-6	N-Nitroso-di-Phenylamine	0.083 U	0.083	0.0414

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:15
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/02/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-6-SH**	QC Batch:	97197 -129
Sample #:	**364042RE**	Anal. Batch:	218553
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	5.7

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.083 U	0.083	0.0286
85-01-8	**Phenanthrene**	**0.50**	0.083	0.0437
108-95-2	Phenol	0.083 U	0.083	0.0465
129-00-0	**Pyrene**	**1.8**	0.083	0.0356

00225

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-6-DP**	QC Batch:	97197 -129
Sample #:	**364043**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	Acenaphthene	0.033 U	0.033	0.00579
208-96-8	**Acenaphthylene**	**0.016 J**	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	Anthracene	0.033 U	0.033	0.00795

00225

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-6-DP**	QC Batch:	97197 -129
Sample #:	**364043**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.13**	J	0.033	0.00923
50-32-8	**Benzo (a) Pyrene**	**0.15**	J	0.033	0.00917
205-99-2	**Benzo (b) Fluoranthene**	**0.13**	J	0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.14**	J	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.14**	J	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.17**	J	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0131
85-68-7	Butyl Benzyl Phthalate	0.033 U		0.033	0.00756
86-74-8	Carbazole	0.033 U		0.033	0.00733
218-01-9	**Chrysene**	**0.12**	J	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.058 J**		0.066	0.0168
132-64-9	Dibenzofuran	0.033 U		0.033	0.00803
84-66-2	Diethylphthalate	0.033 U		0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.16**		0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00691
206-44-0	**Fluoranthene**	**0.17**		0.033	0.00999
86-73-7	Fluorene	0.033 U		0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00523
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.12**	J	0.033	0.0109
78-59-1	Isophorone	0.033 U		0.033	0.00450
91-20-3	Naphthalene	0.033 U		0.033	0.00589
98-95-3	Nitrobenzene	0.033 U		0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00800

00226

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-6-DP**	QC Batch:	97197 -129
Sample #:	**364043**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00552
85-01-8	**Phenanthrene**	**0.030 J**		0.033	0.00844
108-95-2	Phenol	0.033 U		0.033	0.00898
129-00-0	**Pyrene**	**0.16**	J	0.033	0.00686

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:10
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-7-SH**	QC Batch:	97197 -129
Sample #:	**364044**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	Acenaphthene	0.033 U	0.033	0.00579
208-96-8	**Acenaphthylene**	**0.017 J**	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.017 J**	0.033	0.00795

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:10
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-7-SH**	QC Batch:	97197 -129
Sample #:	**364044**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.14**		0.033	0.00923
50-32-8	**Benzo (a) Pyrene**	**0.16**	J	0.033	0.00917
205-99-2	**Benzo (b) Fluoranthene**	**0.093**	J	0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.12**	J	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.081**	J	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.062**	J	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0131
85-68-7	**Butyl Benzyl Phthalate**	**0.016 J**		0.033	0.00756
86-74-8	**Carbazole**	**0.010 J**		0.033	0.00733
218-01-9	**Chrysene**	**0.16**	J	0.033	0.00758
53-70-3	Dibenzo (a,h) Anthracene	0.066 U		0.066	0.0168
132-64-9	Dibenzofuran	0.033 U		0.033	0.00803
84-66-2	Diethylphthalate	0.033 U		0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.19**		0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00691
206-44-0	**Fluoranthene**	**0.21**		0.033	0.00999
86-73-7	Fluorene	0.033 U		0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00523
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.14**	J	0.033	0.0109
78-59-1	Isophorone	0.033 U		0.033	0.00450
91-20-3	Naphthalene	0.033 U		0.033	0.00589
98-95-3	Nitrobenzene	0.033 U		0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00800

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:10
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-7-SH**	QC Batch:	97197 -129
Sample #:	**364044**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00552
85-01-8	**Phenanthrene**	**0.070**		0.033	0.00844
108-95-2	Phenol	0.033 U		0.033	0.00898
129-00-0	**Pyrene**	**0.23**	J	0.033	0.00686

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:15
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-7-DP**	QC Batch:	97197 -129
Sample #:	**364045**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	90
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	Acenaphthene	0.033 U	0.033	0.00579
208-96-8	**Acenaphthylene**	**0.026 J**	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.016 J**	0.033	0.00795

A 9/1004

00230

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:15
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-7-DP**	QC Batch:	97197 -129
Sample #:	**364045**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	90
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.33**		0.033	0.00923
50-32-8	**Benzo (a) Pyrene**	**0.30**	J	0.033	0.00917
205-99-2	**Benzo (b) Fluoranthene**	**0.19**	J	0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.25**	J	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.18**	J	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.026 J**	J	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0131
85-68-7	Butyl Benzyl Phthalate	0.033 U		0.033	0.00756
86-74-8	**Carbazole**	**0.023 J**		0.033	0.00733
218-01-9	**Chrysene**	**0.29**	J	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.12**	J	0.066	0.0168
132-64-9	Dibenzofuran	0.033 U		0.033	0.00803
84-66-2	Diethylphthalate	0.033 U		0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.23**		0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00691
206-44-0	**Fluoranthene**	**0.44**		0.033	0.00999
86-73-7	Fluorene	0.033 U		0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00523
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.28**	J	0.033	0.0109
78-59-1	Isophorone	0.033 U		0.033	0.00450
91-20-3	**Naphthalene**	**0.0072 J**		0.033	0.00589
98-95-3	Nitrobenzene	0.033 U		0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00800

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002309

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:15
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-7-DP**	QC Batch:	97197 -129
Sample #:	**364045**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	90
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00552
85-01-8	**Phenanthrene**	**0.058**	0.033	0.00844
108-95-2	Phenol	0.033 U	0.033	0.00898
129-00-0	**Pyrene**	**0.44** J	0.033	0.00686

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00230

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:25
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-9-SH**	QC Batch:	97197 -129
Sample #:	**364047**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	83
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00673
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00725
95-48-7	2-Methylphenol	0.033 U	0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00685
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0112
106-44-5	4-Methylphenol	0.033 U	0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0156
83-32-9	Acenaphthene	0.033 U	0.033	0.00631
208-96-8	Acenaphthylene	0.033 U	0.033	0.00731
62-53-3	Aniline	0.17 U	0.17	0.00448
120-12-7	Anthracene	0.033 U	0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:25
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-9-SH**	QC Batch:	97197 -129
Sample #:	**364047**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	83
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.031 J**		0.033	0.0101
50-32-8	**Benzo (a) Pyrene**	**0.038**	J	0.033	0.0100
205-99-2	**Benzo (b) Fluoranthene**	**0.037 J**	~~J~~ UJ	0.066	0.0236
191-24-2	Benzo (g,h,i,) Perylene	0.033 U		0.033	0.00934
207-08-9	**Benzo (k) Fluoranthene**	**0.019 J**	J	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.026 J**	J	0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0143
85-68-7	**Butyl Benzyl Phthalate**	**0.012 J**		0.033	0.00824
86-74-8	Carbazole	0.033 U		0.033	0.00799
218-01-9	**Chrysene**	**0.036**	J	0.033	0.00827
53-70-3	Dibenzo (a,h) Anthracene	0.066 U		0.066	0.0184
132-64-9	Dibenzofuran	0.033 U		0.033	0.00876
84-66-2	Diethylphthalate	0.033 U		0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.34**		0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00754
206-44-0	**Fluoranthene**	**0.039**		0.033	0.0109
86-73-7	Fluorene	0.033 U		0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00570
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00523
193-39-5	Indeno (1,2,3-cd) Pyrene	0.033 U	UJ	0.033	0.0119
78-59-1	Isophorone	0.033 U		0.033	0.00491
91-20-3	Naphthalene	0.033 U		0.033	0.00642
98-95-3	Nitrobenzene	0.033 U		0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00872

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00234

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:25
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-9-SH**	QC Batch:	97197 -129
Sample #:	**364047**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	83
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00602
85-01-8	**Phenanthrene**	**0.021 J**		0.033	0.00920
108-95-2	Phenol	0.033 U		0.033	0.00979
129-00-0	**Pyrene**	**0.040**	J	0.033	0.00749

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-9-DP**	QC Batch:	97197 -129
Sample #:	**364046**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U		0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U		0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U		0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U		0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U		0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U		0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U		0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U		0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U		0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U		0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U		0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U		0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U		0.033	0.00673
91-57-6	2-Methylnaphthalene	0.033 U		0.033	0.00725
95-48-7	2-Methylphenol	0.033 U		0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U		0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U		0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U	UJ	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U		0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U		0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U		0.033	0.00685
59-50-7	4-Chloro-3-Methylphenol	0.033 U		0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U	UJ	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U		0.033	0.0112
106-44-5	4-Methylphenol	0.033 U		0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U		0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U		0.066	0.0156
83-32-9	Acenaphthene	0.033 U		0.033	0.00631
208-96-8	Acenaphthylene	0.033 U		0.033	0.00731
62-53-3	Aniline	0.17 U		0.17	0.00448
120-12-7	Anthracene	0.033 U		0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-9-DP**	QC Batch:	97197 -129
Sample #:	**364046**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	Benzo (a) Anthracene	0.033 U	0.033	0.0101
50-32-8	Benzo (a) Pyrene	0.033 U	0.033	0.0100
205-99-2	Benzo (b) Fluoranthene	0.066 U	0.066	0.0236
191-24-2	Benzo (g,h,i,) Perylene	0.033 U	0.033	0.00934
207-08-9	Benzo (k) Fluoranthene	0.066 U UJ	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.021 J** J	0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0143
85-68-7	Butyl Benzyl Phthalate	0.033 U	0.033	0.00824
86-74-8	Carbazole	0.033 U	0.033	0.00799
218-01-9	Chrysene	0.033 U UJ	0.033	0.00827
53-70-3	Dibenzo (a,h) Anthracene	0.066 U	0.066	0.0184
132-64-9	Dibenzofuran	0.033 U	0.033	0.00876
84-66-2	Diethylphthalate	0.033 U	0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U	0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.32**	0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.00754
206-44-0	Fluoranthene	0.033 U	0.033	0.0109
86-73-7	Fluorene	0.033 U	0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.00570
67-72-1	Hexachloroethane	0.033 U UJ	0.033	0.00523
193-39-5	Indeno (1,2,3-cd) Pyrene	0.033 U UJ	0.033	0.0119
78-59-1	Isophorone	0.033 U	0.033	0.00491
91-20-3	Naphthalene	0.033 U	0.033	0.00642
98-95-3	Nitrobenzene	0.033 U	0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.00872

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00233

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-9-DP**	QC Batch:	97197 -129
Sample #:	**364046**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00602
85-01-8	Phenanthrene	0.033 U		0.033	0.00920
108-95-2	Phenol	0.033 U		0.033	0.00979
129-00-0	**Pyrene**	**0.0095 J**	J	0.033	0.00749

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:50
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-10-SH**	QC Batch:	97197 -129
Sample #:	**364048**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	82
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U		0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U		0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U		0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U		0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U		0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U		0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U		0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U		0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U		0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U		0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U		0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U		0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U		0.033	0.00673
91-57-6	2-Methylnaphthalene	0.033 U		0.033	0.00725
95-48-7	2-Methylphenol	0.033 U		0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U		0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U		0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U	UJ	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U		0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U		0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U		0.033	0.00685
59-50-7	**4-Chloro-3-Methylphenol**	**0.0067 J**		0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U	UJ	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U		0.033	0.0112
106-44-5	4-Methylphenol	0.033 U		0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U		0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U		0.066	0.0156
83-32-9	Acenaphthene	0.033 U		0.033	0.00631
208-96-8	**Acenaphthylene**	**0.016 J**		0.033	0.00731
62-53-3	Aniline	0.17 U		0.17	0.00448
120-12-7	**Anthracene**	**0.012 J**		0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:50
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-10-SH**	QC Batch:	97197 -129
Sample #:	**364048**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	82
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.089**		0.033	0.0101
50-32-8	**Benzo (a) Pyrene**	**0.14**		0.033	0.0100
205-99-2	**Benzo (b) Fluoranthene**	**0.073**		0.066	0.0236
191-24-2	**Benzo (g,h,i,) Perylene**	**0.069**	J	0.033	0.00934
207-08-9	**Benzo (k) Fluoranthene**	**0.068**	J	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.053**	J	0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0143
85-68-7	**Butyl Benzyl Phthalate**	**0.024 J**		0.033	0.00824
86-74-8	Carbazole	0.033 U		0.033	0.00799
218-01-9	**Chrysene**	**0.12**	J	0.033	0.00827
53-70-3	Dibenzo (a,h) Anthracene	0.066 U		0.066	0.0184
132-64-9	Dibenzofuran	0.033 U		0.033	0.00876
84-66-2	Diethylphthalate	0.033 U		0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.34**		0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00754
206-44-0	**Fluoranthene**	**0.16**		0.033	0.0109
86-73-7	Fluorene	0.033 U		0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00570
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00523
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.086**	J	0.033	0.0119
78-59-1	Isophorone	0.033 U		0.033	0.00491
91-20-3	Naphthalene	0.033 U		0.033	0.00642
98-95-3	Nitrobenzene	0.033 U		0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00872

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:50
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/01/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-10-SH**	QC Batch:	97197 -129
Sample #:	**364048**	Anal. Batch:	218550
Matrix:	Soil	Percent Solids:	82
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00602
85-01-8	**Phenanthrene**	**0.056**		0.033	0.00920
108-95-2	Phenol	0.033 U		0.033	0.00979
129-00-0	**Pyrene**	**0.16**	J	0.033	0.00749

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-10-DP**	QC Batch:	97197 -129
Sample #:	**364049**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00673
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00725
95-48-7	2-Methylphenol	0.033 U	0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U UJ	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00685
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U UJ	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0112
106-44-5	4-Methylphenol	0.033 U	0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0156
83-32-9	Acenaphthene	0.033 U	0.033	0.00631
208-96-8	Acenaphthylene	0.033 U	0.033	0.00731
62-53-3	Aniline	0.17 U	0.17	0.00448
120-12-7	Anthracene	0.033 U	0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:55
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-10-DP**	QC Batch:	97197 -129
Sample #:	**364049**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	Benzo (a) Anthracene	0.033 U		0.033	0.0101
50-32-8	Benzo (a) Pyrene	0.033 U		0.033	0.0100
205-99-2	Benzo (b) Fluoranthene	0.066 U		0.066	0.0236
191-24-2	Benzo (g,h,i,) Perylene	0.033 U		0.033	0.00934
207-08-9	Benzo (k) Fluoranthene	0.066 U	UJ	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.32**		0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0143
85-68-7	**Butyl Benzyl Phthalate**	**0.023 J**		0.033	0.00824
86-74-8	Carbazole	0.033 U		0.033	0.00799
218-01-9	Chrysene	0.033 U	UJ	0.033	0.00827
53-70-3	Dibenzo (a,h) Anthracene	0.066 U		0.066	0.0184
132-64-9	Dibenzofuran	0.033 U		0.033	0.00876
84-66-2	Diethylphthalate	0.033 U		0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.29**		0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00754
206-44-0	Fluoranthene	0.033 U		0.033	0.0109
86-73-7	Fluorene	0.033 U		0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00570
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00523
193-39-5	Indeno (1,2,3-cd) Pyrene	0.033 U	UJ	0.033	0.0119
78-59-1	Isophorone	0.033 U		0.033	0.00491
91-20-3	Naphthalene	0.033 U		0.033	0.00642
98-95-3	Nitrobenzene	0.033 U		0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00872

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:55
Project:	Baltimbre District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	06/30/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-10-DP**	QC Batch:	97197 -129
Sample #:	**364049**	Anal. Batch:	218560
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00602
85-01-8	Phenanthrene	0.033 U	0.033	0.00920
108-95-2	Phenol	0.033 U	0.033	0.00979
129-00-0	Pyrene	0.033 U UJ	0.033	0.00749

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-11-SH**	QC Batch:	97197 -129
Sample #:	**364050**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U		0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U		0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U		0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U		0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U		0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U		0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U		0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U		0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U		0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U		0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U		0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U		0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U		0.033	0.00673
91-57-6	**2-Methylnaphthalene**	**0.015 J**		0.033	0.00725
95-48-7	2-Methylphenol	0.033 U		0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U		0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U		0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U	UJ	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U		0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U		0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U		0.033	0.00685
59-50-7	**4-Chloro-3-Methylphenol**	**0.0079 J**		0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U	UJ	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U		0.033	0.0112
106-44-5	4-Methylphenol	0.033 U		0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U		0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U		0.066	0.0156
83-32-9	**Acenaphthene**	**0.046**		0.033	0.00631
208-96-8	**Acenaphthylene**	**0.024 J**		0.033	0.00731
62-53-3	Aniline	0.17 U		0.17	0.00448
120-12-7	**Anthracene**	**0.16**		0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-11-SH**	QC Batch:	97197 -129
Sample #:	**364050**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.55**		0.033	0.0101
50-32-8	**Benzo (a) Pyrene**	**0.37**		0.033	0.0100
205-99-2	**Benzo (b) Fluoranthene**	**0.50**		0.066	0.0236
191-24-2	**Benzo (g,h,i,) Perylene**	**0.36**		0.033	0.00934
207-08-9	**Benzo (k) Fluoranthene**	**0.092**	J	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.39**		0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0143
85-68-7	**Butyl Benzyl Phthalate**	**0.078**		0.033	0.00824
86-74-8	**Carbazole**	**0.068**		0.033	0.00799
218-01-9	**Chrysene**	**0.54**	J	0.033	0.00827
53-70-3	Dibenzo (a,h) Anthracene	0.066 U		0.066	0.0184
132-64-9	**Dibenzofuran**	**0.017 J**		0.033	0.00876
84-66-2	Diethylphthalate	0.033 U		0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.35**		0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00754
206-44-0	**Fluoranthene**	**1.0**		0.033	0.0109
86-73-7	**Fluorene**	**0.045**		0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00570
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00523
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.39**	J	0.033	0.0119
78-59-1	Isophorone	0.033 U		0.033	0.00491
91-20-3	**Naphthalene**	**0.019 J**		0.033	0.00642
98-95-3	Nitrobenzene	0.033 U		0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00872

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-11-SH**	QC Batch:	97197 -129
Sample #:	**364050**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00602
85-01-8	**Phenanthrene**	**0.49**	0.033	0.00920
108-95-2	Phenol	0.033 U	0.033	0.00979
129-00-0	***Pyrene**	**1.1** J	0.033	0.00749

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/07/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-11-SH**	QC Batch:	97197 -129
Sample #:	**364050RE**	Anal. Batch:	218549
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	2.4

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.0119
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00804
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.0101
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.0126
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.0124
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.0153
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00828
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0305
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00751
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.0187
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.0197
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.0161
95-57-8	2-Chlorophenol	0.033 U	0.033	0.0135
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.0145
95-48-7	2-Methylphenol	0.033 U	0.033	0.0121
88-74-4	2-Nitroaniline	0.033 U	0.033	0.0153
88-75-5	2-Nitrophenol	0.033 U	0.033	0.0107
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	0.343
99-09-2	3-Nitroaniline	0.033 U	0.033	0.0111
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.0132
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.0137
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.0120
106-47-8	4-Chloroaniline	0.17 U	0.17	0.0516
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0224
106-44-5	4-Methylphenol	0.033 U	0.033	0.0117
100-01-6	4-Nitroaniline	0.033 U	0.033	0.0138
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0312
83-32-9	**Acenaphthene**	**0.043**	0.033	0.0126
208-96-8	**Acenaphthylene**	**0.016 J**	0.033	0.0146
62-53-3	Aniline	0.17 U	0.17	0.00895
120-12-7	**Anthracene**	**0.14**	0.033	0.0174

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/07/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-11-SH**	QC Batch:	97197 -129
Sample #:	**364050RE**	Anal. Batch:	218549
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	2.4

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.53**	0.033	0.0201
50-32-8	**Benzo (a) Pyrene**	**0.43**	0.033	0.0200
205-99-2	**Benzo (b) Fluoranthene**	**0.40**	0.066	0.0473
191-24-2	**Benzo (g,h,i,) Perylene**	**0.32**	0.033	0.0187
207-08-9	**Benzo (k) Fluoranthene**	**0.36**	0.066	0.0322
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.0105
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.0115
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.40**	0.033	0.0166
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0286
85-68-7	**Butyl Benzyl Phthalate**	**0.093**	0.033	0.0165
86-74-8	**Carbazole**	**0.082**	0.033	0.0160
218-01-9	**Chrysene**	**0.60**	0.033	0.0165
53-70-3	**Dibenzo (a,h) Anthracene**	**0.12**	0.066	0.0367
132-64-9	Dibenzofuran	0.033 U	0.033	0.0175
84-66-2	Diethylphthalate	0.033 U	0.033	0.0208
131-11-3	Dimethylphthalate	0.033 U	0.033	0.0180
84-74-2	**Di-n-Butylphthalate**	**0.36**	0.033	0.0186
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.0151
206-44-0	**Fluoranthene**	**1.0**	0.033	0.0218
86-73-7	**Fluorene**	**0.041**	0.033	0.0233
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.0212
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.0108
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.0114
67-72-1	Hexachloroethane	0.033 U	0.033	0.0105
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.32**	0.033	0.0238
78-59-1	Isophorone	0.033 U	0.033	0.00982
91-20-3	**Naphthalene**	**0.019 J**	0.033	0.0128
98-95-3	Nitrobenzene	0.033 U	0.033	0.00890
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.0129
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.0174

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:20
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/07/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-11-SH**	QC Batch:	97197 -129
Sample #:	**364050RE**	Anal. Batch:	218549
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	2.4

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.0120
85-01-8	**Phenanthrene**	**0.46**	0.033	0.0184
108-95-2	Phenol	0.033 U	0.033	0.0196
129-00-0	**Pyrene**	**0.95**	0.033	0.0150

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:25
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/07/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-11-DP**	QC Batch:	97197 -129
Sample #:	**364051**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U		0.033	0.00594
95-50-1	**1,2-Dichlorobenzene**	**0.0061 J**		0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U		0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U		0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U		0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U		0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U		0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U		0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U		0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U		0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U		0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U		0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U		0.033	0.00673
91-57-6	**2-Methylnaphthalene**	**0.020 J**		0.033	0.00725
95-48-7	2-Methylphenol	0.033 U		0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U		0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U		0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U	UJ	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U		0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U		0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U		0.033	0.00685
59-50-7	**4-Chloro-3-Methylphenol**	**0.0078 J**		0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U	UJ	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U		0.033	0.0112
106-44-5	4-Methylphenol	0.033 U		0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U		0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U		0.066	0.0156
83-32-9	**Acenaphthene**	**0.049**		0.033	0.00631
208-96-8	**Acenaphthylene**	**0.024 J**		0.033	0.00731
62-53-3	Aniline	0.17 U		0.17	0.00448
120-12-7	**Anthracene**	**0.13**		0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:25
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/07/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-11-DP**	QC Batch:	97197 -129
Sample #:	**364051**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.56**		0.033	0.0101
50-32-8	**Benzo (a) Pyrene**	**0.57**		0.033	0.0100
205-99-2	**Benzo (b) Fluoranthene**	**0.49**		0.066	0.0236
191-24-2	**Benzo (g,h,i,) Perylene**	**0.40**		0.033	0.00934
207-08-9	**Benzo (k) Fluoranthene**	**0.19**	J	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.15**		0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0143
85-68-7	Butyl Benzyl Phthalate	0.033 U		0.033	0.00824
86-74-8	**Carbazole**	**0.053**		0.033	0.00799
218-01-9	**Chrysene**	**0.41**	J	0.033	0.00827
53-70-3	Dibenzo (a,h) Anthracene	0.066 U		0.066	0.0184
132-64-9	**Dibenzofuran**	**0.015 J**		0.033	0.00876
84-66-2	Diethylphthalate	0.033 U		0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.36**		0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00754
206-44-0	**Fluoranthene**	**0.69**		0.033	0.0109
86-73-7	**Fluorene**	**0.035**		0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00570
67-72-1	Hexachloroethane	0.033 U	UJ	0.033	0.00523
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.46**	J	0.033	0.0119
78-59-1	Isophorone	0.033 U		0.033	0.00491
91-20-3	**Naphthalene**	**0.029 J**		0.033	0.00642
98-95-3	Nitrobenzene	0.033 U		0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00872

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:25
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/07/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-11-DP**	QC Batch:	97197 -129
Sample #:	**364051**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	85
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00602
85-01-8	**Phenanthrene**	**0.37**		0.033	0.00920
108-95-2	Phenol	0.033 U		0.033	0.00979
129-00-0	**Pyrene**	**0.73**	J	0.033	0.00749

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-12-SH**
Sample #: **364052**
Matrix: Soil
Unit: mg/kg dry

Sampled: 06/21/04 @ 13:30
Sampler: V. Griffin
Received: 06/25/04 @ 08:40
Prepared: 06/29/04 by MBS
Prep. Method: USEPA-3550B
Analyzed: 07/07/04 by DMC
Anal. Method: USEPA-8270C
QC Batch: 97201 -129
Anal. Batch: 218561
Percent Solids: 82
Dilution Factor: 1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00673
91-57-6	**2-Methylnaphthalene**	**0.096**	0.033	0.00725
95-48-7	2-Methylphenol	0.033 U	0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00685
59-50-7	**4-Chloro-3-Methylphenol**	**0.015 J**	0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0112
106-44-5	4-Methylphenol	0.033 U	0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0156
83-32-9	**Acenaphthene**	**0.19**	0.033	0.00631
208-96-8	**Acenaphthylene**	**0.038**	0.033	0.00731
62-53-3	Aniline	0.17 U	0.17	0.00448
120-12-7	**Anthracene**	**0.54**	0.033	0.00868

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ANALYTICAL REPORT

Client: **U.S. Army Corps of Engineers**
Project: Baltimore District
Fort Totten

Submittal #: **36620-1**
Submittal: June, 2004 Sampling Event
Fort Totten
Sample ID: **Ad2004- SS-12-SH**
Sample #: **364052**
Matrix: Soil
Unit: mg/kg dry

Sampled: 06/21/04 @ 13:30
Sampler: V. Griffin
Received: 06/25/04 @ 08:40
Prepared: 06/29/04 by MBS
Prep. Method: USEPA-3550B
Analyzed: 07/07/04 by DMC
Anal. Method: USEPA-8270C
QC Batch: 97201 -129
Anal. Batch: 218561
Percent Solids: 82
Dilution Factor: 1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	***Benzo (a) Anthracene**	**1.6**	J	0.033	0.0101
50-32-8	***Benzo (a) Pyrene**	**1.3**	JN	0.033	0.0100
205-99-2	**Benzo (b) Fluoranthene**	**0.66**	JN	0.066	0.0236
191-24-2	**Benzo (g,h,i,) Perylene**	**0.56**	JN	0.033	0.00934
207-08-9	**Benzo (k) Fluoranthene**	**0.30**	JN	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.34**		0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0143
85-68-7	Butyl Benzyl Phthalate	0.033 U		0.033	0.00824
86-74-8	**Carbazole**	**0.22**		0.033	0.00799
218-01-9	***Chrysene**	**1.1**	J	0.033	0.00827
53-70-3	**Dibenzo (a,h) Anthracene**	**0.078**	NJ	0.066	0.0184
132-64-9	**Dibenzofuran**	**0.13**		0.033	0.00876
84-66-2	Diethylphthalate	0.033 U		0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.066**		0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U	UJ	0.033	0.00754
206-44-0	***Fluoranthene**	**2.2**	J	0.033	0.0109
86-73-7	**Fluorene**	**0.25**		0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00570
67-72-1	Hexachloroethane	0.033 U		0.033	0.00523
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**1.0**	JN	0.033	0.0119
78-59-1	Isophorone	0.033 U		0.033	0.00491
91-20-3	**Naphthalene**	**0.13**		0.033	0.00642
98-95-3	Nitrobenzene	0.033 U		0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00872

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:30
Project:	Baltimbre District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/07/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-12-SH**	QC Batch:	97201 -129
Sample #:	**364052**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	82
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00602
85-01-8	***Phenanthrene**	**2.6**	J	0.033	0.00920
108-95-2	Phenol	0.033 U		0.033	0.00979
129-00-0	***Pyrene**	**4.3**	J	0.033	0.00749

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-12-SH**	QC Batch:	97201 -129
Sample #:	**364052RE**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	82
Unit:	mg/kg dry	Dilution Factor:	12

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.17 U	0.17	0.0594
95-50-1	1,2-Dichlorobenzene	0.17 U	0.17	0.0402
541-73-1	1,3-Dichlorobenzene	0.17 U	0.17	0.0505
106-46-7	1,4-Dichlorobenzene	0.17 U	0.17	0.0631
95-95-4	2,4,5-Trichlorophenol	0.17 U	0.17	0.0620
88-06-2	2,4,6-Trichlorophenol	0.17 U	0.17	0.0764
120-83-2	2,4-Dichlorophenol	0.17 U	0.17	0.0414
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.152
51-28-5	2,4-Dinitrophenol	0.17 U	0.17	0.0376
121-14-2	2,4-Dinitrotoluene	0.17 U	0.17	0.0934
606-20-2	2,6-Dinitrotoluene	0.17 U	0.17	0.0986
91-58-7	2-Chloronaphthalene	0.17 U	0.17	0.0805
95-57-8	2-Chlorophenol	0.17 U	0.17	0.0673
91-57-6	**2-Methylnaphthalene**	**0.089 J**	0.17	0.0725
95-48-7	2-Methylphenol	0.17 U	0.17	0.0606
88-74-4	2-Nitroaniline	0.17 U	0.17	0.0767
88-75-5	2-Nitrophenol	0.17 U	0.17	0.0536
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	1.72
99-09-2	3-Nitroaniline	0.17 U	0.17	0.0553
534-52-1	4,6-Dinitro-2-Methylphenol	0.17 U	0.17	0.0660
101-55-3	4-Bromophenyl Phenylether	0.17 U	0.17	0.0685
59-50-7	4-Chloro-3-Methylphenol	0.17 U	0.17	0.0601
106-47-8	4-Chloroaniline	0.17 U	0.52	0.258
7005-72-3	4-Chlorophenylphenyl-Ether	0.17 U	0.17	0.112
106-44-5	4-Methylphenol	0.17 U	0.17	0.0586
100-01-6	4-Nitroaniline	0.17 U	0.17	0.0692
100-02-7	4-Nitrophenol	0.17 U	0.17	0.156
83-32-9	**Acenaphthene**	**0.25**	0.17	0.0631
208-96-8	Acenaphthylene	0.17 U	0.17	0.0731
62-53-3	Aniline	0.17 U	0.17	0.0448
120-12-7	**Anthracene**	**0.63**	0.17	0.0868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-12-SH**	QC Batch:	97201 -129
Sample #:	**364052RE**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	82
Unit:	mg/kg dry	Dilution Factor:	12

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**1.4**	0.17	0.101
50-32-8	**Benzo (a) Pyrene**	**1.2**	0.17	0.100
205-99-2	**Benzo (b) Fluoranthene**	**0.76**	0.47	0.236
191-24-2	**Benzo (g,h,i,) Perylene**	**0.84**	0.17	0.0934
207-08-9	**Benzo (k) Fluoranthene**	**0.84**	0.17	0.161
111-44-4	Bis (2-Chloroethyl) Ether	0.17 U	0.17	0.0523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.17 U	0.17	0.0576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.39**	0.17	0.0830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.17 U	0.17	0.143
85-68-7	Butyl Benzyl Phthalate	0.17 U	0.17	0.0824
86-74-8	**Carbazole**	**0.25**	0.17	0.0799
218-01-9	**Chrysene**	**1.3**	0.17	0.0827
53-70-3	**Dibenzo (a,h) Anthracene**	**0.23**	0.37	0.184
132-64-9	**Dibenzofuran**	**0.14 J**	0.17	0.0876
84-66-2	Diethylphthalate	0.17 U	0.17	0.104
131-11-3	Dimethylphthalate	0.17 U	0.17	0.0902
84-74-2	**Di-n-Butylphthalate**	**0.16 J**	0.17	0.0930
117-84-0	Di-n-Octylphthalate	0.17 U	0.17	0.0754
206-44-0	**Fluoranthene**	**2.7**	0.17	0.109
86-73-7	**Fluorene**	**0.30**	0.17	0.116
118-74-1	Hexachlorobenzene	0.17 U	0.17	0.106
87-68-3	Hexachlorobutadiene	0.17 U	0.17	0.0538
77-47-4	Hexachlorocyclopentadiene	0.17 U	0.17	0.0570
67-72-1	Hexachloroethane	0.17 U	0.17	0.0523
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**1.0**	0.17	0.119
78-59-1	Isophorone	0.17 U	0.17	0.0491
91-20-3	**Naphthalene**	**0.13 J**	0.17	0.0642
98-95-3	Nitrobenzene	0.17 U	0.17	0.0445
621-64-7	N-Nitrosodi-n-Propylamine	0.17 U	0.17	0.0644
86-30-6	N-Nitroso-di-Phenylamine	0.17 U	0.17	0.0872

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:30
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-12-SH**	QC Batch:	97201 -129
Sample #:	**364052RE**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	82
Unit:	mg/kg dry	Dilution Factor:	12

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.17 U	0.17	0.0602
85-01-8	**Phenanthrene**	**2.5**	0.17	0.0920
108-95-2	Phenol	0.17 U	0.17	0.0979
129-00-0	**Pyrene**	**2.6**	0.17	0.0749

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:35
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-12-DP**	QC Batch:	97201 -129
Sample #:	**364053**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U		0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U		0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U		0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U		0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U		0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U		0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U		0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U		0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U		0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U		0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U		0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U		0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U		0.033	0.00673
91-57-6	**2-Methylnaphthalene**	**0.014 J**		0.033	0.00725
95-48-7	2-Methylphenol	0.033 U		0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U		0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U		0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U		2.0	0.172
99-09-2	3-Nitroaniline	0.033 U		0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U		0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U		0.033	0.00685
59-50-7	**4-Chloro-3-Methylphenol**	**0.0092 J**		0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U		0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U		0.033	0.0112
106-44-5	**4-Methylphenol**	**0.0078 J**	J	0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U		0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U		0.066	0.0156
83-32-9	**Acenaphthene**	**0.057**		0.033	0.00631
208-96-8	**Acenaphthylene**	**0.016 J**		0.033	0.00731
62-53-3	Aniline	0.17 U		0.17	0.00448
120-12-7	**Anthracene**	**0.11**		0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:35
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-12-DP**	QC Batch:	97201 -129
Sample #:	**364053**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.51**	0.033	0.0101
50-32-8	**Benzo (a) Pyrene**	**0.35**	0.033	0.0100
205-99-2	**Benzo (b) Fluoranthene**	**0.26**	0.066	0.0236
191-24-2	**Benzo (g,h,i,) Perylene**	**0.24**	0.033	0.00934
207-08-9	**Benzo (k) Fluoranthene**	**0.22**	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.19**	0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0143
85-68-7	*Butyl Benzyl Phthalate	0.033 U	0.033	0.00824
86-74-8	**Carbazole**	**0.068**	0.033	0.00799
218-01-9	**Chrysene**	**0.38**	0.033	0.00827
53-70-3	**Dibenzo (a,h) Anthracene**	**0.090**	0.066	0.0184
132-64-9	**Dibenzofuran**	**0.016 J**	0.033	0.00876
84-66-2	Diethylphthalate	0.033 U	0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U	0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.035**	0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.00754
206-44-0	**Fluoranthene**	**0.70**	0.033	0.0109
86-73-7	**Fluorene**	**0.040**	0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.00570
67-72-1	Hexachloroethane	0.033 U	0.033	0.00523
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.31**	0.033	0.0119
78-59-1	Isophorone	0.033 U	0.033	0.00491
91-20-3	**Naphthalene**	**0.022 J**	0.033	0.00642
98-95-3	Nitrobenzene	0.033 U	0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.00872

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 13:35
Project:	Baltimbre District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-12-DP**	QC Batch:	97201 -129
Sample #:	**364053**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	84
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00602
85-01-8	**Phenanthrene**	**0.39**	0.033	0.00920
108-95-2	Phenol	0.033 U	0.033	0.00979
129-00-0	**Pyrene**	**0.80**	0.033	0.00749

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/07/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-25-SH**	QC Batch:	97201 -129
Sample #:	**364105**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	**2-Methylnaphthalene**	**0.014 J**	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	**4-Chloro-3-Methylphenol**	**0.0094 J**	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	**Acenaphthene**	**0.030 J**	0.033	0.00579
208-96-8	**Acenaphthylene**	**0.34**	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.28**	0.033	0.00795

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/07/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-25-SH**	QC Batch:	97201 -129
Sample #:	**364105**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
56-55-3	***Benzo (a) Anthracene**	**1.6**	J	0.033	0.00923
50-32-8	**Benzo (a) Pyrene**	**0.93**		0.033	0.00917
205-99-2	**Benzo (b) Fluoranthene**	**0.71**		0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.84**		0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.42**		0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U		0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U		0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.12**		0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U		0.066	0.0131
85-68-7	Butyl Benzyl Phthalate	0.033 U		0.033	0.00756
86-74-8	**Carbazole**	**0.080**		0.033	0.00733
218-01-9	***Chrysene**	**1.3**	J	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.25**		0.066	0.0168
132-64-9	**Dibenzofuran**	**0.0085 J**		0.033	0.00803
84-66-2	Diethylphthalate	0.033 U		0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U		0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.036**		0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U		0.033	0.00691
206-44-0	***Fluoranthene**	**1.6**	J	0.033	0.00999
86-73-7	**Fluorene**	**0.031 J**		0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U		0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U		0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U		0.033	0.00523
67-72-1	Hexachloroethane	0.033 U		0.033	0.00480
193-39-5	***Indeno (1,2,3-cd) Pyrene**	**1.5**	J	0.033	0.0109
78-59-1	Isophorone	0.033 U		0.033	0.00450
91-20-3	**Naphthalene**	**0.010 J**		0.033	0.00589
98-95-3	Nitrobenzene	0.033 U		0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U		0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U		0.033	0.00800

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/07/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-25-SH**	QC Batch:	97201 -129
Sample #:	**364105**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result		Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U		0.033	0.00552
85-01-8	**Phenanthrene**	**0.51**		0.033	0.00844
108-95-2	Phenol	0.033 U		0.033	0.00898
129-00-0	***Pyrene**	**7.7**	J	0.033	0.00686

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-25-SH**	QC Batch:	97201 -129
Sample #:	**364105RE**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	5.7

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.083 U	0.083	0.0282
95-50-1	1,2-Dichlorobenzene	0.083 U	0.083	0.0191
541-73-1	1,3-Dichlorobenzene	0.083 U	0.083	0.0240
106-46-7	1,4-Dichlorobenzene	0.083 U	0.083	0.0300
95-95-4	2,4,5-Trichlorophenol	0.083 U	0.083	0.0295
88-06-2	2,4,6-Trichlorophenol	0.083 U	0.083	0.0363
120-83-2	2,4-Dichlorophenol	0.083 U	0.083	0.0197
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0724
51-28-5	2,4-Dinitrophenol	0.083 U	0.083	0.0178
121-14-2	2,4-Dinitrotoluene	0.083 U	0.083	0.0443
606-20-2	2,6-Dinitrotoluene	0.083 U	0.083	0.0469
91-58-7	2-Chloronaphthalene	0.083 U	0.083	0.0382
95-57-8	2-Chlorophenol	0.083 U	0.083	0.0320
91-57-6	2-Methylnaphthalene	0.083 U	0.083	0.0344
95-48-7	2-Methylphenol	0.083 U	0.083	0.0288
88-74-4	2-Nitroaniline	0.083 U	0.083	0.0364
88-75-5	2-Nitrophenol	0.083 U	0.083	0.0255
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	0.815
99-09-2	3-Nitroaniline	0.083 U	0.083	0.0263
534-52-1	4,6-Dinitro-2-Methylphenol	0.083 U	0.083	0.0314
101-55-3	4-Bromophenyl Phenylether	0.083 U	0.083	0.0325
59-50-7	4-Chloro-3-Methylphenol	0.083 U	0.083	0.0286
106-47-8	4-Chloroaniline	0.17 U	0.17	0.123
7005-72-3	4-Chlorophenylphenyl-Ether	0.083 U	0.083	0.0532
106-44-5	4-Methylphenol	0.083 U	0.083	0.0278
100-01-6	4-Nitroaniline	0.083 U	0.083	0.0329
100-02-7	4-Nitrophenol	0.083 U	0.083	0.0741
83-32-9	**Acenaphthene**	**0.035 J**	0.083	0.0300
208-96-8	**Acenaphthylene**	**0.27**	0.083	0.0347
62-53-3	Aniline	0.17 U	0.17	0.0213
120-12-7	**Anthracene**	**0.20**	0.083	0.0412

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-25-SH**	QC Batch:	97201 -129
Sample #:	**364105RE**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	5.7

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**1.4**	0.083	0.0478
50-32-8	**Benzo (a) Pyrene**	**1.2**	0.083	0.0475
205-99-2	**Benzo (b) Fluoranthene**	**1.3**	0.22	0.112
191-24-2	**Benzo (g,h,i,) Perylene**	**0.88**	0.083	0.0443
207-08-9	**Benzo (k) Fluoranthene**	**0.66**	0.083	0.0764
111-44-4	Bis (2-Chloroethyl) Ether	0.083 U	0.083	0.0249
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.083 U	0.083	0.0274
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.10**	0.083	0.0394
111-91-1	Bis (2-Chloroethoxy)-Methane	0.083 U	0.083	0.0678
85-68-7	Butyl Benzyl Phthalate	0.083 U	0.083	0.0392
86-74-8	**Carbazole**	**0.079 J**	0.083	0.0380
218-01-9	**Chrysene**	**1.4**	0.083	0.0393
53-70-3	**Dibenzo (a,h) Anthracene**	**0.32**	0.17	0.0872
132-64-9	Dibenzofuran	0.083 U	0.083	0.0416
84-66-2	Diethylphthalate	0.083 U	0.083	0.0493
131-11-3	Dimethylphthalate	0.083 U	0.083	0.0429
84-74-2	**Di-n-Butylphthalate**	**0.055 J**	0.083	0.0442
117-84-0	Di-n-Octylphthalate	0.083 U	0.083	0.0358
206-44-0	**Fluoranthene**	**1.8**	0.083	0.0518
86-73-7	Fluorene	0.083 U	0.083	0.0553
118-74-1	Hexachlorobenzene	0.083 U	0.083	0.0503
87-68-3	Hexachlorobutadiene	0.083 U	0.083	0.0255
77-47-4	Hexachlorocyclopentadiene	0.083 U	0.083	0.0271
67-72-1	Hexachloroethane	0.083 U	0.083	0.0249
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**1.0**	0.083	0.0566
78-59-1	Isophorone	0.083 U	0.083	0.0233
91-20-3	Naphthalene	0.083 U	0.083	0.0305
98-95-3	Nitrobenzene	0.083 U	0.083	0.0211
621-64-7	N-Nitrosodi-n-Propylamine	0.083 U	0.083	0.0306
86-30-6	N-Nitroso-di-Phenylamine	0.083 U	0.083	0.0414

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 17:00
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-25-SH**	QC Batch:	97201 -129
Sample #:	**364105RE**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	87
Unit:	mg/kg dry	Dilution Factor:	5.7

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.083 U	0.083	0.0286
85-01-8	**Phenanthrene**	**0.48**	0.083	0.0437
108-95-2	Phenol	0.083 U	0.083	0.0465
129-00-0	**Pyrene**	**1.8**	0.083	0.0356

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:23
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-29-SH**	QC Batch:	97201 -129
Sample #:	**364107**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	83
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00594
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00402
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00505
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00631
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00620
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00764
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00414
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0152
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00376
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00934
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00986
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00805
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00673
91-57-6	2-Methylnaphthalene	0.033 U	0.033	0.00725
95-48-7	2-Methylphenol	0.033 U	0.033	0.00606
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00767
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00536
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	0.172
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00553
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00660
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00685
59-50-7	**4-Chloro-3-Methylphenol**	**0.0096 J**	0.033	0.00601
106-47-8	4-Chloroaniline	0.17 U	0.17	0.0258
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0112
106-44-5	4-Methylphenol	0.033 U	0.033	0.00586
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00692
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0156
83-32-9	Acenaphthene	0.033 U	0.033	0.00631
208-96-8	Acenaphthylene	0.033 U	0.033	0.00731
62-53-3	Aniline	0.17 U	0.17	0.00448
120-12-7	Anthracene	0.033 U	0.033	0.00868

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:23
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-29-SH**	QC Batch:	97201 -129
Sample #:	**364107**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	83
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.021 J**	0.033	0.0101
50-32-8	**Benzo (a) Pyrene**	**0.023 J**	0.033	0.0100
205-99-2	**Benzo (b) Fluoranthene**	**0.024 J**	0.066	0.0236
191-24-2	Benzo (g,h,i,) Perylene	0.033 U	0.033	0.00934
207-08-9	Benzo (k) Fluoranthene	0.066 U	0.066	0.0161
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.00523
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.00576
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.026 J**	0.033	0.00830
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0143
85-68-7	Butyl Benzyl Phthalate	0.033 U	0.033	0.00824
86-74-8	Carbazole	0.033 U	0.033	0.00799
218-01-9	**Chrysene**	**0.019 J**	0.033	0.00827
53-70-3	Dibenzo (a,h) Anthracene	0.066 U	0.066	0.0184
132-64-9	Dibenzofuran	0.033 U	0.033	0.00876
84-66-2	Diethylphthalate	0.033 U	0.033	0.0104
131-11-3	Dimethylphthalate	0.033 U	0.033	0.00902
84-74-2	**Di-n-Butylphthalate**	**0.033**	0.033	0.00930
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.00754
206-44-0	**Fluoranthene**	**0.033**	0.033	0.0109
86-73-7	Fluorene	0.033 U	0.033	0.0116
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.0106
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.00538
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.00570
67-72-1	Hexachloroethane	0.033 U	0.033	0.00523
193-39-5	Indeno (1,2,3-cd) Pyrene	0.033 U	0.033	0.0119
78-59-1	Isophorone	0.033 U	0.033	0.00491
91-20-3	Naphthalene	0.033 U	0.033	0.00642
98-95-3	Nitrobenzene	0.033 U	0.033	0.00445
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.00644
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.00872

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	06/21/04 @ 14:23
Project:	Baltimore District	Sampler:	V. Griffin
	Fort Totten	Received:	06/25/04 @ 08:40
		Prepared:	06/29/04 by MBS
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/06/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-29-SH**	QC Batch:	97201 -129
Sample #:	**364107**	Anal. Batch:	218561
Matrix:	Soil	Percent Solids:	83
Unit:	mg/kg dry	Dilution Factor:	1.2

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00602
85-01-8	**Phenanthrene**	**0.016 J**	0.033	0.00920
108-95-2	Phenol	0.033 U	0.033	0.00979
129-00-0	**Pyrene**	**0.038**	0.033	0.00749

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	07/01/04 @ 00:00
Project:	Baltimore District	Sampler:	R. Whitten
	Fort Totten	Received:	07/02/04 @ 08:25
		Prepared:	07/02/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/08/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-8-SH**	QC Batch:	97201 -102
Sample #:	**364523**	Anal. Batch:	218549
Matrix:	Soil	Percent Solids:	88
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	**2-Methylnaphthalene**	**0.0071 J**	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	**Acenaphthene**	**0.0086 J**	0.033	0.00579
208-96-8	**Acenaphthylene**	**0.029 J**	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.031 J**	0.033	0.00795

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	07/01/04 @ 00:00
Project:	Baltimore District	Sampler:	R. Whitten
	Fort Totten	Received:	07/02/04 @ 08:25
		Prepared:	07/02/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/08/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-8-SH**	QC Batch:	97201 -102
Sample #:	**364523**	Anal. Batch:	218549
Matrix:	Soil	Percent Solids:	88
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.20**	0.033	0.00923
50-32-8	**Benzo (a) Pyrene**	**0.19**	0.033	0.00917
205-99-2	**Benzo (b) Fluoranthene**	**0.20**	0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.14**	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.092**	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.15**	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0131
85-68-7	Butyl Benzyl Phthalate	0.033 U	0.033	0.00756
86-74-8	**Carbazole**	**0.020 J**	0.033	0.00733
218-01-9	**Chrysene**	**0.22**	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.044 J**	0.066	0.0168
132-64-9	Dibenzofuran	0.033 U	0.033	0.00803
84-66-2	Diethylphthalate	0.033 U	0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U	0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.056**	0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.00691
206-44-0	**Fluoranthene**	**0.33**	0.033	0.00999
86-73-7	**Fluorene**	**0.014 J**	0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.00523
67-72-1	Hexachloroethane	0.033 U	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.14**	0.033	0.0109
78-59-1	Isophorone	0.033 U	0.033	0.00450
91-20-3	**Naphthalene**	**0.0089 J**	0.033	0.00589
98-95-3	Nitrobenzene	0.033 U	0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.00800

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	07/01/04 @ 00:00
Project:	Baltimore District	Sampler:	R. Whitten
	Fort Totten	Received:	07/02/04 @ 08:25
		Prepared:	07/02/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/08/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-8-SH**	QC Batch:	97201 -102
Sample #:	**364523**	Anal. Batch:	218549
Matrix:	Soil	Percent Solids:	88
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00552
85-01-8	**Phenanthrene**	**0.18**	0.033	0.00844
108-95-2	Phenol	0.033 U	0.033	0.00898
129-00-0	**Pyrene**	**0.38**	0.033	0.00686

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	07/01/04 @ 00:00
Project:	Baltimore District	Sampler:	R. Whitten
	Fort Totten	Received:	07/02/04 @ 08:25
		Prepared:	07/02/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/08/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-8-DP**	QC Batch:	97201 -102
Sample #:	**364524**	Anal. Batch:	218549
Matrix:	Soil	Percent Solids:	89
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
120-82-1	1,2,4-Trichlorobenzene	0.033 U	0.033	0.00545
95-50-1	1,2-Dichlorobenzene	0.033 U	0.033	0.00369
541-73-1	1,3-Dichlorobenzene	0.033 U	0.033	0.00463
106-46-7	1,4-Dichlorobenzene	0.033 U	0.033	0.00579
95-95-4	2,4,5-Trichlorophenol	0.033 U	0.033	0.00569
88-06-2	2,4,6-Trichlorophenol	0.033 U	0.033	0.00701
120-83-2	2,4-Dichlorophenol	0.033 U	0.033	0.00380
105-67-9	2,4-Dimethylphenol	0.17 U	0.17	0.0140
51-28-5	2,4-Dinitrophenol	0.033 U	0.033	0.00344
121-14-2	2,4-Dinitrotoluene	0.033 U	0.033	0.00856
606-20-2	2,6-Dinitrotoluene	0.033 U	0.033	0.00904
91-58-7	2-Chloronaphthalene	0.033 U	0.033	0.00738
95-57-8	2-Chlorophenol	0.033 U	0.033	0.00617
91-57-6	**2-Methylnaphthalene**	**0.056**	0.033	0.00664
95-48-7	2-Methylphenol	0.033 U	0.033	0.00556
88-74-4	2-Nitroaniline	0.033 U	0.033	0.00703
88-75-5	2-Nitrophenol	0.033 U	0.033	0.00492
91-94-1	3,3'-Dichlorobenzidine	2.0 U	2.0	0.157
99-09-2	3-Nitroaniline	0.033 U	0.033	0.00507
534-52-1	4,6-Dinitro-2-Methylphenol	0.033 U	0.033	0.00605
101-55-3	4-Bromophenyl Phenylether	0.033 U	0.033	0.00628
59-50-7	4-Chloro-3-Methylphenol	0.033 U	0.033	0.00551
106-47-8	4-Chloroaniline	0.17 U	0.17	0.0237
7005-72-3	4-Chlorophenylphenyl-Ether	0.033 U	0.033	0.0103
106-44-5	4-Methylphenol	0.033 U	0.033	0.00537
100-01-6	4-Nitroaniline	0.033 U	0.033	0.00635
100-02-7	4-Nitrophenol	0.066 U	0.066	0.0143
83-32-9	**Acenaphthene**	**0.011 J**	0.033	0.00579
208-96-8	**Acenaphthylene**	**0.049**	0.033	0.00670
62-53-3	Aniline	0.17 U	0.17	0.00410
120-12-7	**Anthracene**	**0.045**	0.033	0.00795

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	07/01/04 @ 00:00
Project:	Baltimore District	Sampler:	R. Whitten
	Fort Totten	Received:	07/02/04 @ 08:25
		Prepared:	07/02/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/08/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-8-DP**	QC Batch:	97201 -102
Sample #:	**364524**	Anal. Batch:	218549
Matrix:	Soil	Percent Solids:	89
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
56-55-3	**Benzo (a) Anthracene**	**0.39**	0.033	0.00923
50-32-8	**Benzo (a) Pyrene**	**0.36**	0.033	0.00917
205-99-2	**Benzo (b) Fluoranthene**	**0.36**	0.066	0.0217
191-24-2	**Benzo (g,h,i,) Perylene**	**0.26**	0.033	0.00856
207-08-9	**Benzo (k) Fluoranthene**	**0.21**	0.066	0.0147
111-44-4	Bis (2-Chloroethyl) Ether	0.033 U	0.033	0.00480
108-60-1	Bis (2-Chloroisopropyl)-Ether	0.033 U	0.033	0.00528
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.089**	0.033	0.00761
111-91-1	Bis (2-Chloroethoxy)-Methane	0.066 U	0.066	0.0131
85-68-7	**Butyl Benzyl Phthalate**	**0.0086 J**	0.033	0.00756
86-74-8	**Carbazole**	**0.028 J**	0.033	0.00733
218-01-9	**Chrysene**	**0.48**	0.033	0.00758
53-70-3	**Dibenzo (a,h) Anthracene**	**0.084**	0.066	0.0168
132-64-9	**Dibenzofuran**	**0.0084 J**	0.033	0.00803
84-66-2	Diethylphthalate	0.033 U	0.033	0.00952
131-11-3	Dimethylphthalate	0.033 U	0.033	0.00827
84-74-2	**Di-n-Butylphthalate**	**0.032 J**	0.033	0.00853
117-84-0	Di-n-Octylphthalate	0.033 U	0.033	0.00691
206-44-0	**Fluoranthene**	**0.75**	0.033	0.00999
86-73-7	**Fluorene**	**0.028 J**	0.033	0.0107
118-74-1	Hexachlorobenzene	0.033 U	0.033	0.00970
87-68-3	Hexachlorobutadiene	0.033 U	0.033	0.00493
77-47-4	Hexachlorocyclopentadiene	0.033 U	0.033	0.00523
67-72-1	Hexachloroethane	0.033 U	0.033	0.00480
193-39-5	**Indeno (1,2,3-cd) Pyrene**	**0.29**	0.033	0.0109
78-59-1	Isophorone	0.033 U	0.033	0.00450
91-20-3	**Naphthalene**	**0.080**	0.033	0.00589
98-95-3	Nitrobenzene	0.033 U	0.033	0.00408
621-64-7	N-Nitrosodi-n-Propylamine	0.033 U	0.033	0.00591
86-30-6	N-Nitroso-di-Phenylamine	0.033 U	0.033	0.00800

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ANALYTICAL REPORT

Client:	**U.S. Army Corps of Engineers**	Sampled:	07/01/04 @ 00:00
Project:	Baltimore District	Sampler:	R. Whitten
	Fort Totten	Received:	07/02/04 @ 08:25
		Prepared:	07/02/04 by PAK
Submittal #:	**36620-1**	Prep. Method:	USEPA-3550B
Submittal:	June, 2004 Sampling Event	Analyzed:	07/08/04 by DMC
	Fort Totten	Anal. Method:	USEPA-8270C
Sample ID:	**Ad2004- SS-8-DP**	QC Batch:	97201 -102
Sample #:	**364524**	Anal. Batch:	218549
Matrix:	Soil	Percent Solids:	89
Unit:	mg/kg dry	Dilution Factor:	1.1

CAS Number	Semivolatile Organics	Analytical Result	Reporting Limit	MDL
87-86-5	Pentachlorophenol	0.033 U	0.033	0.00552
85-01-8	**Phenanthrene**	**0.45**	0.033	0.00844
108-95-2	Phenol	0.033 U	0.033	0.00898
129-00-0	**Pyrene**	**0.76**	0.033	0.00686

End of Analytical Report

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Appendix G

Data Usability Summary Report and Chemical Quality Assurance Report

Data Usability Summary Report
Fort Totten
October 2004

Prepared for

Department of the Army
U.S. Army Corps of Engineers, Baltimore District
10 South Howard Street
Baltimore, Maryland 21201

Prepared by

Laboratory Data Consultants
7750 El Camino Real, Suite 2L
Carlsbad, California 92009

TABLE OF CONTENTS

		Page No.
LIST OF TABLES AND APPENDICES		iii
LIST OF ACRONYMS AND ABBREVIATIONS		iv
1.0	**PROJECT SCOPE**	1
2.0	**PROJECT DESCRIPTION**	1
3.0	**QUALITY CONTROL ACTIVITIES**	1
3.1	Semivolatile Organic Compounds (EPA Test Method 8270C)	2
	3.1.1 Sample Preservation and Holding Time	2
	3.1.2 Instrument Calibration	2
	3.1.3 Method Blanks	4
	3.1.4 Surrogates and Internal Standards	5
	3.1.5 Matrix Spikes/Matrix Spike Duplicates	6
	3.1.6 Laboratory Control Samples	7
	3.1.7 Compound Quantitation	7
	3.1.8 Compound Identification & Analytical Sensitivity	11
3.2	Metals (EPA Test Method 6010B, 6020, 7174A, NIOSH 6009)	11
	3.2.1 Sample Preservation and Holding Time	11
	3.2.2 Instrument Calibration	11
	3.2.3 Method Blanks	11
	3.2.4 Interference Check Sample Analysis	12
	3.2.5 Matrix Spikes/Matrix Spike Duplicates	12
	3.2.6 Laboratory Control Samples	14
	3.2.7 ICP Serial Dilution	14
	3.2.8 Analyte Identification and Analytical Sensitivity	15
4.0	**ANALYTICAL PROCEDURES**	15
4.1	Semivolatile Organic Compounds (EPA Test Method 8270C)	15
4.2	Metals (EPA Test Method 6010B, 6020, 7174A, NIOSH 6009)	15
5.0	**CHEMICAL DATA QUALITY**	16
5.1	Summary Data Quality Assessment	16
5.2	Completeness Summary	16
6.0	**CONCLUSIONS AND RECOMMENDATIONS**	17
7.0	**REFERENCES**	17

LIST OF TABLES

Table 1	Sample ID Cross Reference

LIST OF APPENDICES

Appendix A	SVOC calibration exceedance summary forms
Appendix B	SVOC method blank exceedance summary forms
Appendix C	SVOC surrogate and internal standard exceedance summary forms
Appendix D	SVOC MS/MSD exceedance summary forms
Appendix E	SVOC LCS exceedance summary forms
Appendix F	Metals calibration exceedance summary forms
Appendix G	Metals method blank exceedance summary forms
Appendix H	Metals Interference Check Sample exceedance summary forms
Appendix I	Metals MS/MSD and duplicate exceedance summary forms
Appendix J	Metals serial dilution exceedance summary forms

LIST OF ACRONYMS AND ABBREVIATIONS

AR/COC	Analysis Request/Chain of Custody
°C	Degrees Centigrade
CLPNFG	Contract Laboratory Program National Functional Guidelines
%D	Percent Difference
DQI	Data Quality Indicator
DUSR	Data Usability Summary Report
ICS	Interference Check Sample
LCS	Laboratory Control Sample
LDC	Laboratory Data Consultants
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
DUSR	Data Usability Summary Report
r^2	Coefficient of Determination
%R	Percent Recovery
RL	Reporting Limit
RPD	Relative Percent Difference
%RSD	Percent Relative Standard Deviated
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compounds
ug/Kg	micrograms per kilogram
ug/L	micrograms per liter
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency

1.0 PROJECT SCOPE

This Data Usability Summary Report (DUSR) presents Level III and Level IV data validation results for samples collected during June through August 2004 sampling period. Data review was performed in accordance with the NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5), USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio (March 1979), 40CFR Part 792 on Good Laboratory Practice Standards, and a modified outline of the USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (CLPNFG) (EPA, 1999a), and *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (CLPNFG) (EPA, 1994a). The data validation task was performed by Laboratory Data Consultants, an independent subcontractor to USACE Baltimore District. This report was prepared for the U.S. Army Corps of Engineers (USACE) by Laboratory Data Consultants.

All sample results from the sampling period were subjected to Level III review, which comprises an evaluation of quality control (QC) summary results for sample holding times, initial and continuing calibrations, surrogates, matrix spike/matrix spike duplicates (MS/MSD), laboratory control samples (LCS), method blanks, field blanks and field duplicate samples.

In addition, a Level IV evaluation of the QC summary forms as well as the raw data, to confirm sample quantitation and identification was performed on 100 percent of all samples.

2.0 PROJECT DESCRIPTION

Sixty seven soil, water and air samples were collected and analyzed for Semivolatile Organic Compounds by EPA Test Method 8270C, and metals by EPA Test Method 6010B, 6020, 7471A and NIOSH Test Method 6009, as part of the Fort Totten sampling program. Additionally, eleven QC samples (i.e., field duplicates and equipment blanks) were collected for this sampling round.

3.0 QUALITY CONTROL ACTIVITIES

Sample analysis was performed by TriMatrix Laboratories, Inc., Adirondack Environmental Services, Inc., Galson Laboratories, and Northeast Analytical, Inc. Method detection limits (MDLs) were determined to be acceptable for this activity.

Level IV review was performed on the Semivolatile and Metals data which included:

- Holding Times
- Instrument Calibration
- Method Blank Contamination
- Surrogates and internal Standards
- Matrix Spike/Matrix Spike Duplicates
- Laboratory Control Samples
- Field Duplicates
- Field Blank Contamination
- Laboratory reports and analysis request/chain of custody (AR/COC) documentation to check for errors and omissions
- Laboratory case narratives to check for anomalies and exceedances of QC requirements
- Laboratory reports to check for correct reporting limits and units

The validation incorporated QC criteria from the CLPNFG. Where specific guidance was not available, the data was evaluated in a conservative manner consistent with industry standards using professional experience.

3.1 Semivolatile Organic Compounds (EPA Test Method 8270C)

The following sections describe the analytical elements that were evaluated for Semivolatile Organic Compounds (SVOC) by EPA Method 8270C.

3.1.1 Sample Preservation and Holding Time

Samples should be analyzed as soon as possible after sample collection. Holding times are generally considered maximum times that samples may be held before analysis and still be considered compliant with method guidelines. After holding times have expired there is a greater likelihood that changes can occur in the sample that can bias the initial sample concentrations. These biases result in sample concentrations of analytes in the insitu sample.

Samples were properly stored in amber containers at 4±2 C.

All SVOC samples met the 14 day to extraction holding time criteria for soils and 7 day to extraction holding time criteria for waters.

3.1.2 Instrument Calibration

Initial and continuing calibrations were performed at the required frequencies. All initial calibration factors were within method and validation acceptance limits of 20.5 percent relative standard deviation (%RSD) and 0.990 for coefficient of determination (r^2) for all compounds with the following exceptions:

ITEM #	Date	Compound	%RSD	Associated Samples	Flag	A or P
1	7/7/04	Nitrobenzene	21.3	Ad2004-SS-13-SH Ad2004-SS-14-SH AH06258BLANK	J (all detects) UJ (all non-detects)	A
2	8/18/04	N-Nitrosodimethylamine	44.3	All samples in SDG 04080062	J (all detects) UJ (all non-detects)	A

ITEM #	Date	Compound	%RSD	Associated Samples	Flag	A or P
3	7/1/04	Hexachloroethane	20.7	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP Ad2004-SS-6-SHMS Ad2004-SS-6-SHMSD 97197-129MB 97201-129MB	J (all detects) UJ (all non-detects)	A

ITEM #	Date	Compound	r^2	Associated Samples	Flag	A or P
4	7/1/04	4-Chloroaniline 3,3'-Dichlorobenzidine Chrysene Pyrene Benzo(k)fluoranthene Indeno(1,2,3-cd)pyrene	0.982 0.979 0.978 0.982 0.980 0.975	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP Ad2004-SS-6-SHMS Ad2004-SS-6-SHMSD 97197-129MB 97201-129MB	J (all detects) UJ (all non-detects)	A
5	8/18/04	Benzoic acid 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	0.966 0.982 0.980	All samples in SDG 04080062	J (all detects) UJ (all non-detects)	A

ITEM #	Date	Compound	r^2	Associated Samples	Flag	A or P
6	8/10/04	Indeno(1,2,3-cd)pyrene	0.989	All samples in SDG 36620-2	J (all detects) UJ (all non-detects)	A
7	9/2/04	2,4-Dinitrophenol	0.978	All samples in SDG 36620-3	J (all detects) UJ (all non-detects)	A

All initial calibration verification (ICV) and continuing calibration factors were within method and validation acceptance limits of 25 percent difference (%D) for all compounds with the following exceptions:

ITEM #	Date	Compound	%D	Associated Samples	Flag	A or P
8	7/1/04	Benzo(k)fluoranthene	29	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-5-SH Ad2004-SS-6-SH Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-10-SH	J (all detects)	A
9	8/20/04	Azobenzene	57.0	All samples in SDG 04080062	J (all detects)	A

The 0.05 RRF validation acceptance criteria were met for all compounds.

The corresponding summary forms for SVOC calibrations exceedances are reported in Appendix A.

3.1.3 Method Blanks

Method blanks are analyzed to assess background interference or contamination that exists in the analytical system that might lead to the reporting of elevated concentration levels or false positive data. The method blank is defined as an interference-free blank matrix similar to the sample matrix to which all reagents are added in the same volumes or proportions as used in sample preparation and carried through the complete sample preparation, cleanup and determinative procedures.

Method blanks were performed at the required frequencies. There were limited detectable concentrations of target compounds in the method blanks. No sample results were qualified based upon this parameter with the following exceptions:

ITEM #	Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
10	Ad2004-GW-MW4R-03	Bis(2-ethylhexyl)phthalate	1.68 ug/L	1.68U ug/L
11	Ad2004-GW-MW4R-01	4-Chloro-3-methylphenol Bis(2-ethylhexyl)phthalate Diethylphthalate	0.33 ug/L 1.2 ug/L 0.16 ug/L	1.0U ug/L 5.0U ug/L 1.0U ug/L
12	Ad2004-GW-MW4R-02	4-Chloro-3-methylphenol Bis(2-ethylhexyl)phthalate Diethylphthalate	0.49 ug/L 1.3 ug/L 0.21 ug/L	1.0U ug/L 5.0U ug/L 1.0U ug/L

The corresponding summary forms for SVOC blank contamination are reported in Appendix B.

3.1.4 Surrogates and Internal Standards

Surrogates are compounds that are added to every single QC, blank, and environmental sample. The surrogates are present to evaluate the success (or lack of success) of the sample preparation and as such can indicate biases in sample results (e.g., high surrogate recovery can indicate a high bias). Surrogates are chosen to expose sample preparation problems, thus they must be very similar chemically to the target analytes. Since they are added to every sample, they must never be found naturally in a sample. For this reason, surrogates are often isotope-labeled target analytes such as Phenol-d5, where all the hydrogens have been replaced with deuterium. Internal standards are compounds that are added to every single QC, blank, and environmental sample in a known amount and carried through the entire determination procedure as a reference for calibrating and controlling the precision and bias of the applied analytical method. Internal standard performance criteria ensure that sensitivity and response are stable during each analysis. Since internal standards must be added to every sample similar to surrogates, they have similar properties as surrogates (e.g, isotope-labeled, not found naturally).

Surrogates and internal standards were added to all samples and blanks as required. All surrogate and internal standard recoveries were within the acceptance limits with the following exception:

ITEM #	Sample	Internal Standards	Area (Limits)	Compound	Flag	A or P
13	Ad2004-SS-B11-DP	Perylene-d12	6478407 (1314865-5259460)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J (all detects) UJ (all non-detects)	A

The corresponding summary forms for SVOC surrogate and internal standard exceedances are reported in Appendix C.

3.1.5 Matrix Spike/Matrix Spike Duplicates

The matrix spike/matrix spike duplicate is analyzed to assess the accuracy and precision of the method for the matrix. The MS/MSD is spiked with all single component target analytes before it is carried through the preparation, cleanup, and determinative procedures. The laboratory will perform corrective action based on failure of set list of any analytes in the spiking list.

Matrix spike/matrix spike duplicates were performed at the required frequency of one per twenty samples. All percent recoveries and relative percent differences were within the acceptance limits listed with the following exceptions:

ITEM #	Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
14A	Ad2004-SS-6-SHMS/ Ad2004-SS-6-SHMD (Ad2004-SS-6-SH)	Phenanthrene	120 (67-116)	-	-	J (all detects)	A
		Di-n-butylphthalate	-	139 (62-126)	-	J (all detects)	
		2,4-Dinitrotoluene	-	92 (28-89)	-	J (all detects)	
14B	Ad2004-SS-6-SHMS/ Ad2004-SS-6-SHMD (Ad2004-SS-6-SH)	Indeno(1,2,3-cd)pyrene	18 (63-123)	19 (63-123)	-	J (all detects) UJ (all non-detects)	A
15	Ad2004-SS-12-DPMS/ Ad2004-SS-12-DPMSD (Ad2004-SS-12-DP)	Butylbenzylphthalate	122 (61-120)	-	-	J (all detects)	A
		Phenol	-	95 (26-90)	-	J (all detects)	
16A	Ad2004-SS-B11-DPMS/ Ad2004-SS-B11-DPMSD (Ad2004-SS-B11-DP)	2,4-Dichlorophenol	63 (64-110)	59 (64-110)	-	J (all detects)	A
		4,6-Dinitro-2-methylphenol	20 (22-132)	17 (22-132)	-	UJ (all non-detects)	
		4-Bromophenyl-phenyl ether	60 (67-113)	-	-		
		4-Chloroaniline	28 (30-92)	17 (30-92)	46 (≤40)		
		4-Nitroaniline	47 (57-110)	49 (57-110)	-		
		Acenaphthylene	61 (70-112)	56 (70-112)	-		
		Anthracene	40 (66-118)	29 (66-118)	-		
		Benzo(a)anthracene	39 (68-129)	12 (68-129)	-		
		Benzo(g,h,i)perylene	33 (61-118)	19 (61-118)	-		
		Bis(2-ethylhexyl)phthalate	50 (55-123)	42 (55-123)	-		
		Carbazole	51 (70-130)	44 (70-130)	-		
		Dibenz(a,h)anthracene	31 (53-131)	28 (53-131)	-		
		Dibenzofuran	55 (65-114)	52 (65-114)	-		
		Di-n-butylphthalate	36 (67-126)	33 (67-126)	-		
		Fluorene	48 (65-112)	45 (65-112)	-		
		Hexachlorobenzene	46 (63-113)	43 (63-113)	-		
		Indeno(1,2,3-cd)pyrene	58 (63-123)	40 (63-123)	-		
		Isophorone	67 (68-112)	-	-		
		Naphthalene	56 (59-135)	53 (59-135)	-		
		2,6-Dinitrotoluene	-	59 (61-114)	-		
		Di-n-octylphthalate	-	57 (61-121)	-		
		Hexachlorocyclopentadiene	-	28 (45-111)	50 (≤23)		
16A	Ad2004-SS-B11-DPMS/ Ad2004-SS-B11-DPMSD (Ad2004-SS-B11-DP)	2,4-Dinitrophenol	12 (28-97)	6 (28-97)	62 (≤20)	J (all detects)	A
		Benzo(a)pyrene	33 (61-124)	3 (61-124)	28 (≤20)	R (all non-detects)	
		Benzo(b)fluoranthene	34 (55-135)	8 (55-135)	30 (≤20)		
		Benzo(k)fluoranthene	13 (62-125)	0 (62-125)	-		
		Chrysene	41 (70-123)	9 (70-123)	27 (≤20)		
		Fluoranthene	0 (66-117)	0 (66-117)	25 (≤20)		
		Phenanthrene	0 (67-116)	0 (67-116)	24 (≤15)		
		Pyrene	24 (35-142)	24 (35-142)	-		

ITEM #	Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
16B	Ad2004-SS-B11-DPMSDL/ Ad2004-SS-B11-DPMSDDL (Ad2004-SS-B11-DPDL)	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene	49 (61-124) - 51 (61-118) 29 (62-125)	22 (61-124) 51 (55-135) 35 (61-118) 19 (62-125)	21 (≤20) - 15 (≤14) -	J (all detects) UJ (all non-detects)	A

The corresponding summary forms for SVOC MS/MSD exceedances are reported in Appendix D.

3.1.6 Laboratory Control Samples

The LCS is analyzed to assess general method performance by the ability of the laboratory to successfully recover the target analytes from a control matrix. Data for LCSs are generated to provide information on the accuracy of the analytical method and on the laboratory performance, which are indicators of potential bias that could affect sample results. The LCS is similar in composition to the method blank. The LCS is spiked with all single-component target analytes (the complete target compound or analyte list) before it is carried through the preparation, cleanup, and determinative procedures. The laboratory will perform corrective action based on failure of set list of any analytes in the spiking list. An LCS must be analyzed once per Sample Delivery Group (SDG) and concurrently with the samples in the SDG.

Laboratory control samples were performed at the required frequency. All percent recoveries were within the acceptance limits with the following exceptions:

ITEM #	LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
17	97201-102LCS/D (Ad2004-SS-8-SH Ad2004-SS-8-DP 97201-102MB)	Bis(2-chloroisopropyl)ether	115 (32-109)	111 (32-109)	-	J (all detects)	P
18	AH06258LCS (Ad2004-SS-13-SH Ad2004-SS-14-SH AH06258BLANK)	4-Chloro-3-methylphenol	166 (22-147)	-	-	J (all detects)	P
19	98895-103LCS (All samples in SDG 36620-3)	Diethylphthalate Dimethylphthalate	115 (52-111) 117 (44-116)	N/A N/A	N/A N/A	J (all detects) J (all detects)	P

The corresponding summary forms for SVOC LCS exceedances are reported in Appendix E.

3.1.7 Compound Quantitation

All sample results were verified from the raw data. All sample results were reproducible with the following exceptions:

ITEM #	Sample	Compound	Finding	Flag	A or P
21	Ad2004-SS-12-DP	4-Methylphenol	Sample results co-eluted with 3-Methylphenol	J (all detects)	A

ITEM #	Sample	Compound	Reported Concentration (mg/Kg)	Recalculated Concentration (mg/Kg)	Flag	A or P
22	Ad2004-SS-1-SH	Benzo(a)pyrene	0.14	0.12456	J (all detects)	A
		Benzo(b)fluoranthene	0.11	0.09801	J (all detects)	
		Benzo(g,h,i)perylene	0.11	0.09067	J (all detects)	
		Benzo(k)fluoranthene	0.061	0.06738	J (all detects)	
		Bis(2-ethylhexyl)phthalate	0.11	0.13654	J (all detects)	
		Chrysene	0.12	0.14107	J (all detects)	
		Dibenz(a,h)anthracene	0.036	0.04170	J (all detects)	
		Indeno(1,2,3-cd)pyrene	0.14	0.07709	J (all detects)	
		Pyrene	0.2	0.22190	J (all detects)	
23	AD2004-SS-1-DP	Benzo(b)fluoranthene	0.073	0.06562	J (all detects)	A
		Benzo(g,h,i)perylene	0.073	0.03072	J (all detects)	
		Benzo(k)flouranthene	0.049	0.06122	J (all detects)	
		Bis(2-ethylhexyl)phthalate	0.074	0.09194	J (all detects)	
		Dibenzo(a,h)anthracene	0.026	0.03635	J (all detects)	
		Indeno(1,2,3-cd)pyrene	0.072	0.04419	J (all detects)	
		Pyrene	0.130	0.14572	J (all detects)	
24	AD2004-SS-2-SH	Benzo(g,h,i)perylene	0.26	0.22288	J (all detects)	A
		Benzo(k)flouranthene	0.18	0.14616	J (all detects)	
		Bis(2-ethylhexyl)phthalate	0.058	0.07034	J (all detects)	
		Dibenzo(a,h)anthracene	0.14	0.11475	J (all detects)	
		Indeno(1,2,3-cd)pyrene	0.35	0.18739	J (all detects)	
					J (all detects)	
25	AD2004-SS-2-DP	Benzo(g,h,i)perylene	0.31	0.28596	J (all detects)	A
		Benzo(k)flouranthene	0.23	0.18711	J (all detects)	
		Bis(2-ethylhexyl)phthalate	0.11	0.13780	J (all detects)	
		Dibenzo(a,h)anthracene	0.19	0.16031	J (all detects)	
		Indeno(1,2,3-cd)pyrene	0.44	0.23681	J (all detects)	
26	AD2004-SS-3-SH	Benzo(a)pyrene	0.12	0.10724	J (all detects)	A
		Benzo(b)fluoranthene	0.099	0.08692	J (all detects)	
		Benzo(g,h,i)perylene	0.097	0.08300	J (all detects)	
		Benzo(k)flouranthene	0.057	0.06738	J (all detects)	
		Chrysene	0.12	0.14006	J (all detects)	
		Dibenzo(a,h)anthracene	0.033	0.04122	J (all detects)	
		Indeno(1,2,3-cd)pyrene	0.12	0.07186	J (all detects)	
		Pyrene	0.20	0.22310	J (all detects)	
27	AD2004-SS-3-DP	Bis(2-ethylhexyl)phthalate	0.063	0.07618	J (all detects)	A
		Pyrene	0.015	-0.01146	J (all detects)	
28	AD2004-SS-4-SH	Benzo(a)pyrene	0.29	0.25935	J (all detects)	A
		Benzo(g,h,i)perylene	0.23	0.18795	J (all detects)	
		Benzo(k)flouranthene	0.26	0.21633	J (all detects)	
		Bis(2-ethylhexyl)phthalate	0.028	0.02375	J (all detects)	
		Dibenzo(a,h)anthracene	0.10	0.08658	J (all detects)	
		Indeno(1,2,3-cd)pyrene	0.24	0.17366	J (all detects)	

ITEM #	Sample	Compound	Reported Concentration (mg/Kg)	Recalculated Concentration (mg/Kg)	Flag	A or P
29	AD2004-SS-4-DP	Di-n-butylphthalate	0.042	0.03257	J (all detects)	A
30	AD2004-SS-5-SH	Benzo(a)anthracene Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Indeno(1,2,3-cd)pyrene	0.88 0.58 0.94 0.057 0.60	0.69491 0.60573 1.14802 0.06736 0.49166	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
31	AD2004-SS-5-DP	Benzo(a)pyrene Benzo(g,h,i)perylene Benzo(k)flouranthene Chrysene Indeno(1,2,3-cd)pyrene Pyrene	0.041 0.033 0.029 0.033 0.024 0.038	0.05203 0.04391 0.04897 0.01073 0.00940 0.02691	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
32	AD2004-SS-6-SH	Benzo(g,h,i)perylene Bis(2-ethylhexyl)phthalate Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	0.69 0.094 0.078 0.75	0.72416 0.11836 0.06890 0.45674	J (all detects) J (all detects) J (all detects) J (all detects)	A
33	AD2004-SS-6-DP	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Chrysene Indeno(1,2,3-cd)pyrene Pyrene	0.15 0.13 0.14 0.14 0.17 0.12 0.12 0.16	0.13366 0.11331 0.11255 0.11911 0.20924 0.13749 0.10140 0.17816	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
34	AD2004-SS-7-SH	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Bis(2-ethylhexyl)phthalate Chrysene Indeno(1,2,3-cd)pyrene	0.16 0.093 0.12 0.062 0.16 0.14	0.13913 0.08200 0.10033 0.07419 0.17940 0.07627	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
35	AD2004-SS-7-DP	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	0.30 0.19 0.25 0.18 0.026 0.12 0.28	0.26819 0.16943 0.20869 0.14713 0.01978 0.09972 0.16840	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
36	AD2004-SS-9-DP	Bis(2-ethylhexyl)phthalate Pyrene	0.021 0.0095	0.01028 -0.02220	J (all detects) J (all detects)	A
37	AD2004-SS-9-SH	Benzo(a)pyrene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Chrysene Pyrene	0.038 0.019 0.026 0.036 0.04	0.05073 0.04432 0.01717 0.01555 0.02847	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A

ITEM #	Sample	Compound	Reported Concentration (mg/Kg)	Recalculated Concentration (mg/Kg)	Flag	A or P
38	AD2004-SS-10-SH	Benzo(g,h,i)perylene Benzo(k)flouranthene Bis(2-ethylhexyl)phthalate Chrysene Indeno(1,2,3-cd)pyrene Pyrene	0.069 0.068 0.053 0.12 0.086 0.16	0.06606 0.07495 0.06105 0.13240 0.05211 0.17991	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A

ITEM #	Sample	Compound	Finding	Criteria	Flag	A or P
39	Ad2004-SS-2-DP	Fluoranthene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A
40	Ad2004-SS-5-SH	Fluoranthene Pyrene Benzo(b)fluoranthene Benzo(a)pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects) J (all detects)	A
41	Ad2004-SS-6-SH	Benzo(a)pyrene Benzo(b)fluoranthene Di-n-butylphthalate Fluoranthene Phenanthrene Pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
42	Ad2004-SS-11-SH	Pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A
43	Ad2004-SS-12-SH	Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Phenanthrene Pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
44	Ad2004-SS-25-SH	Benzo(a)anthracene Chrysene Fluoranthene Indeno(1,2,3-cd)pyrene Pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
45	Ad2004-SS-14-SH	Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A

ITEM #	Sample	Compound	Finding	Criteria	Flag	A or P
46	Ad2004-SS-14-SHDL1	Phenanthrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

3.1.8 Target Compound Identification and Analytical Sensitivity

Chromatograms and spectra from the raw data were evaluated. All target compound identifications were acceptable.

The raw data was evaluated for instrument sensitivity. The instrument sensitivity was determined to be technically acceptable. All laboratory reporting limits met the specified requirements.

3.2 Metals (EPA Test Method 6010B, 6020, 7471A, and NIOSH 6009)

The following sections describe the analytical elements that were evaluated for metals by EPA Method 6010B, 6020, 7471A, and NIOSH 6009.

3.2.1 Sample Preservation and Holding Time

Samples were preserved to a pH of < 2 with HNO3 and properly stored in polypropylene containers. All samples were stored at 4±2 C.

All ICP metals samples met the180 day holding time criteria for soil and water samples. All mercury samples met the 28 day holding time criteria for soil and water samples.

3.2.2 Instrument Calibration

Initial and continuing calibrations were performed at the required frequencies.
All initial and continuing calibration factors were within acceptance limits of ≥ 0.995 for the correlation coefficient and 90-110 percent recovery for all analytes with the following exceptions:

ITEM #	Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
47	7/8/04 (0213)	CRDL1	Silver	215.0 (80-120)	Ad2004-SS-13-SH	R	P
48	7/8/04 (0440)	CRDL2	Silver	215.6 (80-120)	Ad2004-SS-13-DP Ad2004-SS-14-SH	R	P

The corresponding summary forms for metals calibration exceedances are reported in Appendix F.

3.2.3 Blanks

Method blanks were performed at the required frequencies. There were limited detectable concentrations of target analytes in the method blanks. No sample results were qualified based upon this parameter with the following exceptions:

ITEM #	Sample	Analyte	Reported Concentration	Modified Final Concentration

ITEM #	Sample	Analyte	Reported Concentration	Modified Final Concentration
49	Ad2004-SS-12-DP	Silver	1.5 mg/Kg	1.5U mg/Kg
50	Ad2004-SS-27-SH	Silver	1.7 mg/Kg	1.7U mg/Kg
51	Ad2004-SS-12-SH	Silver	2.7 mg/Kg	2.7U mg/Kg
52	Ad2004-SS-32-SH	Silver	3.0 mg/Kg	3.0U mg/Kg
53	Ad2004-SS-8-SH	Silver	0.53 mg/Kg	0.53U mg/Kg

The corresponding summary forms for metals blank contamination exceedances are reported in Appendix G.

3.2.4 Interference Check Sample Analysis

Interference Check Samples (ICS) were performed at the required frequency. All percent recoveries were within the acceptance limits with the following exception:

ITEM #	ICS ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
54A	ICSAB (7/8/04 0203)	Sodium	124.9 (80-120)	All samples in SDG 04060132	J (all detects)	P
54B	ICSAB (7/8/04 0430)	Sodium	123.5 (80-120)	All samples in SDG 04060132	J (all detects)	P
54C	ICSAB (7/9/04 1121)	Potassium	153.1 (80-120)	All samples in SDG 04060132	J (all detects)	P
54D	ICSAB (7/9/04 1219)	Potassium	152.6 (80-120)	All samples in SDG 04060132	J (all detects)	P

The corresponding summary forms for metals ICS exceedances are reported in Appendix H.

3.2.5 Matrix Spike/Matrix Spike Duplicate and Laboratory Duplicate Samples

Matrix spike/matrix spike duplicates and DUPs were performed at the required frequency. All percent recoveries and relative percent differences were within the acceptance limits with the following exceptions:

ITEM #	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
55A	Ad2004-SS-6-SHMS/MSD (Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP)	Potassium	135 (75-125)	-	-	J (all detects)	A
55B	Ad2004-SS-6-SHMS/MSD (Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP)	Vanadium	69 (75-125)	-	-	J (all detects) UJ (all non-detects)	A
56	Ad2004-SS-12-DPMS/MSD (Ad2004-SS-12-SH Ad2004-SS-12-DP Ad2004-SS-27-SH Ad2004-SS-32-SH Ad2004-SS-30-SH)	Selenium Thallium Vanadium	72 (75-125) 74 (75-125) -	- - 60 (75-125)	- - -	J (all detects) UJ (all non-detects)	A
57	Ad2004-SS-13-SHMS (All samples in SDG 04060132)	Chromium Nickel	55.2 64.5	N/A N/A	N/A N/A	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

ITEM #	DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
58	Ad2004-SS-13-SHDUP (All samples in SDG 04060132)	Calcium Magnesium	40.2 (≤35) 65.2 (≤35)	- -	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

The corresponding summary forms for metals MS/MSD/Duplicate exceedances are reported in Appendix I.

3.2.6 Laboratory Control Samples

Laboratory control samples were performed at the required frequency. All percent recoveries were within the acceptance limits.

3.2.7 ICP Serial Dilution

Serial dilutions were performed at the required frequency. All %D were within the acceptance limits listed with the following exceptions:

ITEM #	Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
59	Ad2004-SS-6-SHL	Nickel	11.8 (≤10)	Ad2004-SS-1-SH Ad2004-SS-1-DP Ad2004-SS-2-SH Ad2004-SS-2-DP Ad2004-SS-3-SH Ad2004-SS-3-DP Ad2004-SS-4-SH Ad2004-SS-4-DP Ad2004-SS-5-SH Ad2004-SS-5-DP Ad2004-SS-6-SH Ad2004-SS-6-DP Ad2004-SS-7-SH Ad2004-SS-7-DP Ad2004-SS-9-SH Ad2004-SS-9-DP Ad2004-SS-10-SH Ad2004-SS-10-DP Ad2004-SS-11-SH Ad2004-SS-11-DP	J (all detects)	A
60	Ad2004-SS-12-DPL	Chromium Nickel	12.9 (≤10) 14.3 (≤10)	Ad2004-SS-12-SH Ad2004-SS-12-DP Ad2004-SS-27-SH Ad2004-SS-32-SH Ad2004-SS-30-SH	J (all detects) J (all detects)	A

ITEM #	Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
61	Ad2004-SS-13-SHL	Aluminum	12.7 (≤10)	All samples in SDG 0406132	J (all detects)	A
		Barium	14.6 (≤10)		J (all detects)	
		Lead	20.4 (≤10)		J (all detects)	
		Cobalt	18.4 (≤10)		J (all detects)	
		Chromium	14.3 (≤10)		J (all detects)	
		Iron	18.8 (≤10)		J (all detects)	
		Manganese	13.4 (≤10)		J (all detects)	
		Nickel	19.0 (≤10)		J (all detects)	
		Vanadium	12.0 (≤10)		J (all detects)	
		Zinc	15.0 (≤10)		J (all detects)	

The corresponding summary forms for metals serial dilution exceedances are reported in Appendix J.

3.2.8 Analyte Identification and Analytical Sensitivity

Absorbance readings, chromatography printouts, and raw data from logbooks were evaluated. All target analyte identifications were acceptable.

The raw data was evaluated for instrument sensitivity. The instrument sensitivity was determined to be sufficient to support project reporting requirements. All laboratory reporting limits met the specified requirements.

4.0 ANALYTICAL PROCEDURES

The analytical and preparation procedures that were used for this project are briefly described in the following sections.

4.1 Semivolatile Organic Compounds (EPA Test Method 8270C)

U.S. Environmental Protection Agency Method 8270C is a procedure intended for the analysis of SVOC in extracts prepared from all types of solid waste matrices, soils, and groundwater samples by direct injection in conjunction with a mass spectrometer interfaced with a gas chromatograph (GC/MS). Prior to use of this method, appropriate sample preparation techniques must be used.

4.2 Metals (EPA Test Method 6010B, 6020, 7471A, and NIOSH 6009)

U.S. Environmental Protection Agency Method 6010B and 6020 are procedures intended for the analysis of metals in solution and extractions prepared from all types of solid waste matrices, soils, and groundwater samples by injection into an inductively coupled plasma-atomic emission spectrometer (ICP-AES) and inductively coupled plasma-mass spectroscopy (ICP-MS). Prior to use of these methods, appropriate sample preparation techniques must be used.

U.S. Environmental Protection Agency Method 7471A is a procedure intended for the analysis of mercury in soils, sediment, and sludge materials. Method NIOSH 6009 is a procedure intended for the analysis of mercury in air samples. They are a cold vapor atomic absorption method based on the absorption of radiation at the 253.7nm wavelength by mercury vapor. The mercury is reduced to its elemental state and aerated from solution in a closed system. The mercury vapors passes through a cell position in the light path of an atomic absorption

spectrophotometer. Absorbance (peak height) is measured as a function of mercury concentration. Prior to use of these methods, appropriate sample preparation techniques must be used.

5.0 CHEMICAL DATA QUALITY

This section provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

5.1 Summary Data Quality Assessment

The overall quality of the data was acceptable. All project DQIs were met. All holding times were met. All instrument performance checks and calibrations were performed as required. All calibration factors met the acceptance criteria with the exception noted in Section 3.1.2 and 3.2.2. All surrogate, MS/MSD, LCS, and internal standard percent recoveries and relative percent differences were within acceptance criteria with the exceptions noted in Sections 3.1.4, 3.1.5, 3.1.6, and 3.2.5. All interference check samples percent recoveries and serial dilutions percent differences were withing validation criteria with the exceptions noted in Sections 3.2.4 and 3.2.7. All compound quantitation met acceptance criteria with the exception noted in Section 2.1.7. Method blanks and field blanks were performed at the required frequency and only trace amounts of contamination were detected as described in Sections 3.1.3 and 3.2.3. Field duplicates were performed at the required frequency.

5.2 Completeness Summary

Four types of completeness were calculated for this project: contract, analytical, technical, and field sampling. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations are used to calculate the four types of completeness.

%Contract Completeness = (Number of contract compliant results/Number of reported results) X 100

%Analytical Completeness = (Number of unqualified results/Number of reported results) X 100

%Technical Completeness = (Number of usable results/Number of reported results) X 100

%Field Sampling Completeness = (Number of samples collected/Number of planned samples) X 100

The contract completeness level attained for the field samples was 88.1 percent. Due to quality control exceedances, 410 out of 3449 results were qualified as estimated or non-detected.

The analytical completeness level attained for the field samples was 88.0 percent. Due to quality control exceedances, 413 out of 3449 results were qualified as estimated, rejected or non-detected.

The technical completeness level attained for the field samples was 99.9 percent. Due to quality control exceedances, 3 out of 3449 results were qualified as rejected.

The field sampling completeness level attained for the field samples was 100 percent.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The overall assessment of the Fort Totten field sampling, QA/QC data review of the June through August 2004, data set met project requirements and completeness levels. The data set is considered usable for the intended purpose.

7.0 REFERENCES

NYS Department of Environmental Conservation Handbook for Analytical Quality Control in Water and Wastewater Laboratories EPA 600/4-79-019 (sections 4 & 5)

USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, March 1979

40CFR Part 792 on Good Laboratory Practice Standards

USEPA, 1994, *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA/540/R-99/012, Washington, D.C.

USEPA, 1999, *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, EPA/540/R-99/012, Washington, D.C.

USEPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September1994; update IIB, January 1995; update III, December 1996

TABLE 1

SAMPLE ID CROSS REFERENCE

SDG#: 36620-1	VALIDATION SAMPLE TABLE																LDC#: 12274A
Project Name: Fort Totten	Parameters/Analytical Method																
Client ID #	Lab ID #	Matrix	Date Collected	SVOA (8270C)	Metals (SW846)												
Ad2004-SS-1-SH	364032	soil	6-21-04	X	X												
Ad2004-SS-1-DP	364033	soil	6-21-04	X	X												
Ad2004-SS-2-SH	364034	soil	6-21-04	X	X												
Ad2004-SS-2-DP	364035	soil	6-21-04	X	X												
Ad2004-SS-2-DPRE	364035RE	soil	6-21-04	X													
Ad2004-SS-3-SH	364036	soil	6-21-04	X	X												
Ad2004-SS-3-DP	364037	soil	6-21-04	X	X												
Ad2004-4-SH	364038	soil	6-21-04	X	X												
Ad2004-4-DP	364039	soil	6-21-04	X	X												
Ad2004-5-SH	364040	soil	6-21-04	X	X												
Ad2004-5-SHRE	364040RE	soil	6-21-04	X													
Ad2004-5-DP	364041	soil	6-21-04	X	X												
Ad2004-6-SH	364042	soil	6-21-04	X	X												
Ad2004-6-SHRE	364042RE	soil	6-21-04	X													
Ad2004-6-DP	364043	soil	6-21-04	X	X												
Ad2004-7-SH	364044	soil	6-21-04	X	X												
Ad2004-7-DP	364045	soil	6-21-04	X	X												
Ad2004-9-SH	364046	soil	6-21-04	X	X												
Ad2004-9-DP	364047	soil	6-21-04	X	X												
Ad2004-10-SH	364048	soil	6-21-04	X	X												
Ad2004-10-DP	364049	soil	6-21-04	X	X												
Ad2004-11-SH	364050	soil	6-21-04	X	X												
Ad2004-11-SHRE	364050RE	soil	6-21-04	X													
Ad2004-11-DP	364051	soil	6-21-04	X	X												
Ad2004-12-SH	364052	soil	6-21-04	X	X												

Note: X = Validation was performed.

SDG#: 36620-1 **VALIDATION SAMPLE TABLE** **LDC#:** 12274A

Project Name: Fort Totten Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	Date Collected	SVOA (8270C)	Metals (SW846)											
Ad2004-12-SHRE	364052RE	soil	6-21-04	X												
Ad2004-12-DP	364053	soil	6-21-04	X	X											
Ad2004-25-SH	364105	soil	6-21-04	X												
Ad2004-25-SHRE	364105RE	soil	6-21-04	X												
Ad2004-27-SH	364106	soil	6-21-04		X											
Ad2004-29-SH	364107	soil	6-21-04	X												
Ad2004-32-SH	364109	soil	6-21-04		X											
Ad2004-30-SH	364110	soil	6-21-04		X											
Ad2004-8-SH	364523	soil	7-1-04	X	X											
Ad2004-8-DP	364524	soil	7-1-04	X	X											
Ad2004-6-SHMS	364042MS	soil	6-21-04	X	X											
Ad2004-6-SHMSD	364042MSD	soil	6-21-04	X												
Ad2004-6-SHREMS	364042REMS	soil	6-21-04	X												
Ad2004-6-SHREMSD	364042REMSD	soil	6-21-04	X												
Ad2004-6-SHDUP	364042DUP	soil	6-21-04		X											
Ad2004-12-DPMS	364053MS	soil	6-21-04	X	X											
Ad2004-12-DPMSD	364053MSD	soil	6-21-04	X												
Ad2004-12-DPDUP	364053DUP	soil	6-21-04		X											

Note: X = Validation was performed.

SDG#: 040624EB **VALIDATION SAMPLE TABLE** **LDC#: 12274B**

Project Name: Fort Totten Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	Date Collected	Mercury (NIOSH 6009)												
AD2004-AIR-HG-01-H	040628010-001	air	6-26-04	X												
AD2004-AIR-HG-01-L	040628010-002	air	6-26-04	X												
AD2004-AIR-HG-02-H	040628010-003	air	6-26-04	X												
AD2004-AIR-HG-02-L	040628010-004	air	6-26-04	X												
AD2004-AIR-HG-03-H	040628010-005	air	6-26-04	X												
AD2004-AIR-HG-03-L	040628010-006	air	6-26-04	X												
AD2004-AIR-HG-04-H	040628010-007	air	6-26-04	X												
AD2004-AIR-HG-04-L	040628010-008	air	6-26-04	X												
AD2004-AIR-HG-24-H	040628010-009	air	6-26-04	X												
AD2004-AIR-HG-24-L	040628010-010	air	6-26-04	X												
AD2004-AIR-HG-05-H	040628010-011	air	6-26-04	X												
AD2004-AIR-HG-05-L	040628010-012	air	6-26-04	X												
AD2004-AIR-HG-06-H	040628010-013	air	6-26-04	X												
AD2004-AIR-HG-06-L	040628010-014	air	6-26-04	X												
AD2004-AIR-HG-07-H	040628010-015	air	6-26-04	X												
AD2004-AIR-HG-07-L	040628010-016	air	6-26-04	X												
AD2004-AIR-HG-08-H	040628010-017	air	6-26-04	X												
AD2004-AIR-HG-08-L	040628010-018	air	6-26-04	X												
AD2004-AIR-HG-09-H	040628010-019	air	6-26-04	X												
AD2004-AIR-HG-09-L	040628010-020	air	6-26-04	X												
AD2004-AIR-HG-10-H	040628010-021	air	6-26-04	X												
AD2004-AIR-HG-10-L	040628010-022	air	6-26-04	X												
AD2004-BKGA-HG-01-H	040628010-023	air	6-26-04	X												
AD2004-BKGA-HG-01-H	040628010-024	air	6-26-04	X												
Eblank	040628010-025	air	6-26-04	X												

Note: X = Validation was performed.

SDG#: L106602 **VALIDATION SAMPLE TABLE** **LDC#:** 12274C

Project Name: Fort Totten Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	Date Collected	Mercury (NIOSH 6009)												
AD2004-AIR-HG-04-L	040628010-008	air	6-26-04	X												
Fblank	040628010-025	air	6-26-04	X												

Note: X = Validation was performed.

SDG#: 04080062 **VALIDATION SAMPLE TABLE** LDC#: 12443A

Project Name: Fort Totten Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	Date Collected	SVOA (8270C)												
Ad2004-GW-MW4R-03	AH08534	water	8-4-04	X												

Note: X = Validation was performed.

SDG#: 36620-2 | VALIDATION SAMPLE TABLE | LDC#: 12478A

Project Name: Fort Totten | Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	Date Collected	SVOA (8270C)	Mercury (7471A)											
Ad2004-GW-MW4R-01	367345	water	08/04/04	X												
Ad2004-GW-MW4R-02	367346	water	08/04/04	X												
Ad2004-GW-MW4R-04	367347	water	08/04/04													
Ad2004-PS-01	367348	solid	08/05/04		X											
Ad2004-GW-MW4R-04DUP	367347DUP	water	08/04/04													

Note: X = Validation was performed.

Attachment 2

SDG#: 36620-3 **VALIDATION SAMPLE TABLE** **LDC#:** 12552A

Project Name: Fort Totten Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	Date Collected	SVOA (8270C)												
Ad2004-SS-B11-SH	369216	soil	08/26/04	X												
Ad2004-SS-B11-DP	369217	soil	08/26/04	X												
Ad2004-SS-B11-DPMS	369217MS	soil	08/26/04	X												
Ad2004-SS-B11-DPMSD	369217MSD	soil	08/26/04	X												

Note: X = Validation was performed.

12552VALA.wpd

SDG#: 36620-4	VALIDATION SAMPLE TABLE															LDC#: 12564A
Project Name: Fort Totten	Parameters/Analytical Method															
Client ID #	**Lab ID #**	**Matrix**	**Date Collected**	**Mercury (7471A)**												
Ad2004-SD-615D	369507	solid	08/30/04	X												
Ad2004-SD-615DMS	369507MS	solid	08/30/04	X												
Ad2004-SD-615DMSD	369507MSD	solid	08/30/04	X												

Note: X = Validation was performed.

APPENDIX A

SVOC CALIBRATION EXCEEDANCE SUMMARY FORMS

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 3BNA070704

Instrument ID: GCMS3 Calibration Date(s): 07/07/04 07/07/04

Column: DBXLB ID: 0.25 (mm) Calibration Time(s): 1801 2226

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	
Phenol	AVRG		1.54696325		4.5	<-
Bis(2-chloroethyl)ether	AVRG		0.67106571		14.2	<-
2-Chlorophenol	AVRG		1.41538010		9.2	<-
1,3-Dichlorobenzene	AVRG		0.77948656		12.4	<-
1,4-Dichlorobenzene	2ORDR	-1.9e-002	0.97111213	0.29242414	1.000	<-
N-Nitrosodimethylamine	AVRG					<-
1,2-Dichlorobenzene	2ORDR	3.052e-002	0.88253411	0.39626635	1.000	<-
2-Methylphenol	AVRG		1.41268591		5.1	<-
bis(2-Chloroisopropyl)ether	AVRG		0.19171944		14.3	<-
N-Nitrosodinpropylamine	2ORDR	-3.31e-002	2.22959401	0.87009357	1.000	<-
4-Methylphenol	AVRG		1.10731936		3.9	<-
Hexachloroethane	AVRG		0.78501240		13.5	<-
Nitrobenzene	AVRG		0.47623988		* 21.3	<-
Isophorone	AVRG		0.91508828		11.6	<-
2-Nitrophenol	AVRG		0.17540686		4.5	<-
2,4-Dimethylphenol	AVRG		0.50746169		11.9	<-
Bis(2-chloroethoxy)methane	AVRG		0.50686294		8.1	<-
2,4-Dichlorophenol	AVRG		0.24518304		7.3	<-
1,2,4-Trichlorobenzene	AVRG		0.26377742		10.3	<-
Naphthalene	AVRG		1.86571612		4.5	<-
4-Chloroaniline	AVRG		0.65382342		6.5	<-
Hexachlorobutadiene	2ORDR	5.686e-002	3.76038474	10.3821772	1.000	<-
4-Chloro-3-Methylphenol	AVRG		0.71398787		9.6	<-
2-Methylnaphthalene	AVRG		0.48646361		13.1	<-
Hexachlorocyclopentadiene	AVRG		0.38980485		5.0	<-
2,4,6-Trichlorophenol	LINR	-0.2245434	4.41842052		0.998	<-
2,4,5-Trichlorophenol	AVRG		0.33991329		10.5	<-
2-Chloronaphthalene	AVRG		0.99019521		4.7	<-
2-Nitroaniline	2ORDR	5.808e-002	1.84495627	2.88580344	1.000	<-
Acenaphthylene	AVRG		1.63733188		3.4	<-
2,6-Dinitrotoluene	AVRG		0.30707441		6.0	<-
3-Nitroaniline	AVRG		0.33011578		10.9	<-
Acenaphthene	AVRG		1.18232825		6.5	<-
2,4-Dinitrophenol	LINR	9.26e-002	6.26168984		0.998	<-
Dibenzofuran	AVRG		1.36285656		7.6	<-
4-Nitrophenol	AVRG		0.15937449		11.6	<-
2,4-Dinitrotoluene	AVRG		0.49972903		10.7	<-

* EXCEEDS RSD LIMIT

Northeast Analytical

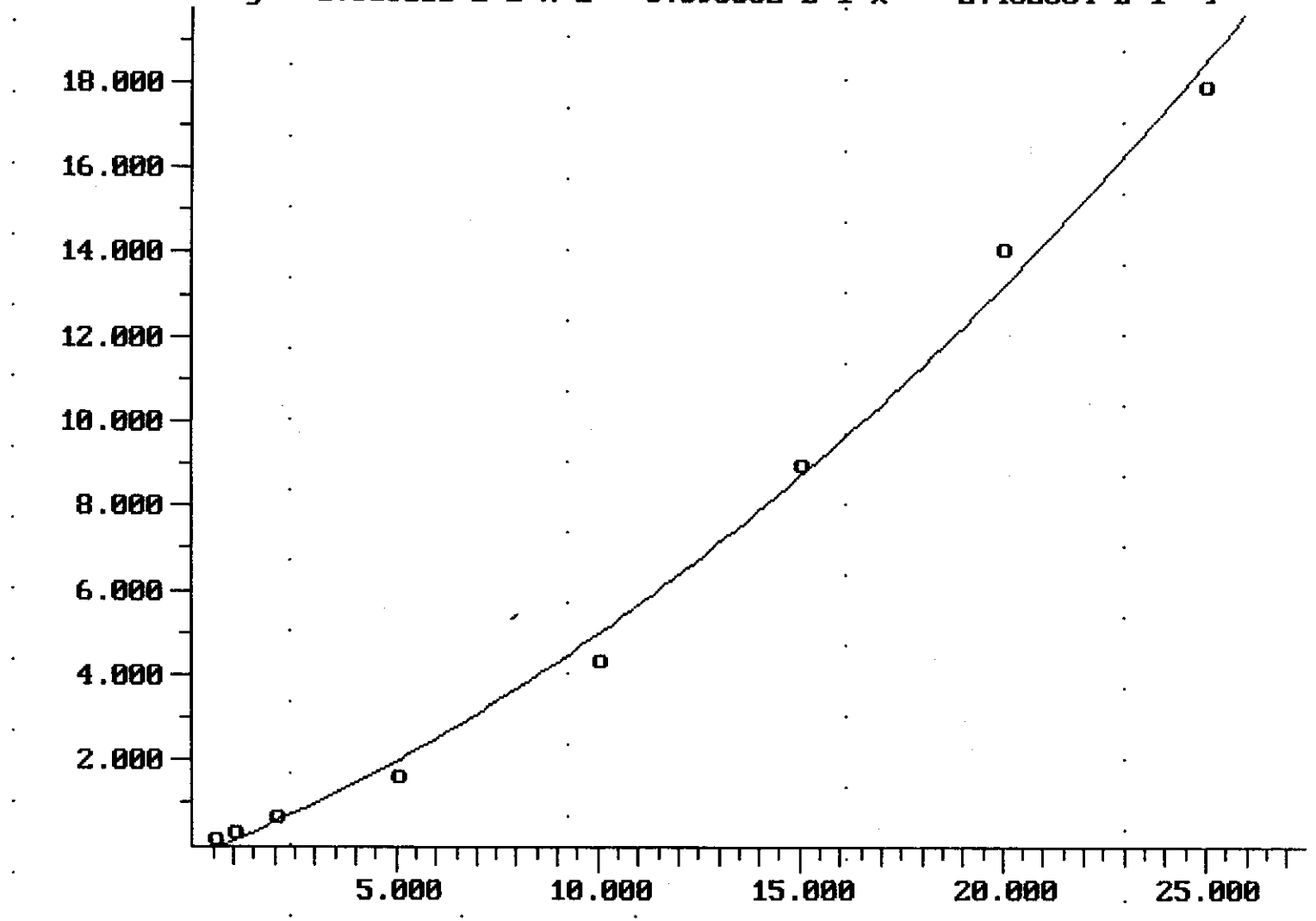
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GCMS3.i
Lab File ID: M3070803.d
Analysis Type: WATER
Lab Sample ID: CCV3-0708A
Method: \\NORTHEAST1\VOL2\tp04\GCMS3.i\070804-BNA.b\8270.m

Injection Date: 08-JUL-2004 10:28
Init. Cal. Date(s): 07-JUL-2004 07-JUL-2004
Init. Cal. Times: 18:01 22:26
Quant Type: ISTD

	COMPOUND	RRF	RF40	MIN RRF	%D	MAX %D	
$	3 2-Fluorophenol	1.19439	1.19204	0.050	-0.2	20.0	
$	4 Phenol-d5	1.48929	1.44179	0.050	-3.2	20.0	
	5 Phenol	1.54696	1.53134	0.050	-1.0	20.0	
	6 2-Chlorophenol	1.41538	1.34508	0.050	-5.0	20.0	
	7 Bis(2-chloroethyl)ether	0.67107	0.68459	0.050	2.0	20.0	
	8 1,3-Dichlorobenzene	0.77949	0.77583	0.050	-0.5	20.0	
	10 1,4-Dichlorobenzene	40.00000	40.58144	0.050	-1.5	20.0	
	14 2-Methylphenol	1.41269	1.52709	0.050	8.1	20.0	
	11 1,2-Dichlorobenzene	40.00000	37.72108	0.050	5.7	20.0	
	16 4-Methylphenol	1.10732	1.14823	0.050	3.7	20.0	
	15 bis(2-Chloroisopropyl)ether	0.19172	0.19538	0.050	1.9	20.0	
	17 Hexachloroethane	0.78501	0.72185	0.050	-8.0	20.0	
	18 N-Nitrosodinpropylamine	40.00000	35.30987	0.050	11.7	20.0	
$	19 Nitrobenzene-d5	0.47617	0.45475	0.050	-4.5	20.0	
	20 Nitrobenzene	0.47624	0.48707	0.050	2.3	20.0	
	21 Isophorone	0.91509	0.77172	0.050	-15.7	20.0	
	22 2,4-Dimethylphenol	0.50746	0.47503	0.050	-6.4	20.0	
	24 2-Nitrophenol	0.17541	0.17572	0.050	0.2	20.0	
	25 Bis(2-chloroethoxy)methane	0.50686	0.51305	0.050	1.2	20.0	
	26 2,4-Dichlorophenol	0.24518	0.24001	0.050	-2.1	20.0	
	27 1,2,4-Trichlorobenzene	0.26378	0.25003	0.050	-5.2	20.0	
	29 Hexachlorobutadiene	40.00000	39.12369	0.050	2.2	20.0	
	30 Naphthalene	1.86572	1.78738	0.050	-4.2	20.0	
	31 4-Chloroaniline	0.65362	0.60660	0.050	-7.2	20.0	
	32 4-Chloro-3-Methylphenol	0.71399	0.72330	0.050	1.3	20.0	
	33 2-Methylnaphthalene	0.48646	0.46798	0.050	-3.8	20.0	
	34 Hexachlorocyclopentadiene	0.38980	0.30954	0.050	-20.6	20.0	<-
	35 2,4,6-Trichlorophenol	40.00000	40.31502	0.050	-0.8	20.0	
$	36 2-Fluorobiphenyl	1.39898	1.25794	0.050	-10.1	20.0	
	37 2,4,5-Trichlorophenol	0.33991	0.27898	0.050	-17.9	20.0	
	38 2-Chloronaphthalene	0.99020	0.89102	0.050	-9.9	20.0	
	39 2-Nitroaniline	40.00000	35.56408	0.050	11.1	20.0	
	40 Dimethylphthalate	1.43850	1.36272	0.050	-5.3	20.0	
	41 Acenaphthylene	1.63733	1.48109	0.050	-9.5	20.0	
	42 2,6-Dinitrotoluene	0.30707	0.30582	0.050	-0.4	20.0	

Calibration Plot (Int Stds) Filename: ICC0810 Correlation Coeff: 0.989
Indeno(1,2,3-cd)Pyrene Compound: 82 of 93 Standard Deviation: 0.477
(Area of Sample/Area of Standard) vs (Amount of Sample Injected) (Lin|Lin)
[y = 1.513111 E-2 x^2 + 3.696552 E-1 x + -2.462064 E-1]



FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 3PH081804

Instrument ID: GCMS3 Calibration Date(s): 08/18/04 08/18/04

Column: DBXLB ID: 0.25 (mm) Calibration Time(s): 1047 2230

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	
N-Nitrosodimethylamine	AVRG		7.035e-002		44.3	<- *
Phenol	AVRG		0.77696046		13.4	
Bis(2-chloroethyl)ether	AVRG		0.34379620		11.2	
Aniline	AVRG		0.81075968		12.6	
2-Chlorophenol	AVRG		0.73913939		12.2	
1,3-Dichlorobenzene	AVRG		0.44510673		9.9	
1,4-Dichlorobenzene	AVRG		0.48781489		8.8	
Benzyl Alcohol	AVRG		0.35193247		15.4	<-
1,2-Dichlorobenzene	2ORDR	2.248e-002	1.61957595	1.51806565	0.996	
2-Methylphenol	AVRG		0.63074309		12.9	
bis(2-Chloroisopropyl)ether	AVRG		0.10228495		9.7	
N-Nitroso-di-n-propylamine	AVRG		0.21712319		11.6	
4-Methylphenol	AVRG		0.61709866		10.3	
Hexachloroethane	AVRG		0.42634945		10.0	
Nitrobenzene	AVRG		0.22115037		13.1	
Isophorone	AVRG		0.42364962		12.7	
2-Nitrophenol	AVRG		6.897e-002		18.3	<-
2,4-Dimethylphenol	AVRG		0.31067838		10.4	
Bis(2-chloroethoxy)methane	AVRG		0.21588881		9.3	
Benzoic Acid	2ORDR	9.835e-002	7.81697573	19.0481463	0.966	<-
2,4-Dichlorophenol	AVRG		0.10924695		10.6	
1,2,4-Trichlorobenzene	AVRG		0.13662028		10.5	
Naphthalene	AVRG		0.89896212		10.5	
4-Chloroaniline	AVRG		0.31508578		11.9	
Hexachlorobutadiene	AVRG		9.698e-002		9.6	
4-Chloro-3-Methylphenol	AVRG		0.32272635		11.9	
2-Methylnaphthalene	LINR	-8.26e-003	4.25211423		0.998	
Hexachlorocyclopentadiene	AVRG		0.15437252		12.7	
2,4,6-Trichlorophenol	AVRG		0.15406822		12.6	
2,4,5-Trichlorophenol	AVRG		0.17995732		19.1	<-
2-Chloronaphthalene	AVRG		0.41186116		9.4	
2-Nitroaniline	AVRG		0.13417636		25.5	<- (ω)
Acenaphthylene	AVRG		0.65641170		6.3	
2,6-Dinitrotoluene	AVRG		0.11925840		5.6	
3-Nitroaniline	AVRG		0.12242927		19.3	<-
Acenaphthene	AVRG		0.48868916		7.4	
2,4-Dinitrophenol	LINR	0.12475005	9.57650598		0.982	<-

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 3PH081804

Instrument ID: GCMS3 Calibration Date(s): 08/18/04 08/18/04

Column: DBXLB ID: 0.25 (mm) Calibration Time(s): 1047 2230

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	
Dibenzofuran	LINR	8.626e-003	1.68371992		0.993	
4-Nitrophenol	AVRG		6.754e-002		17.2	<-
2,4-Dinitrotoluene	AVRG		0.19958339		9.1	
Fluorene	AVRG		0.41647511		7.8	
Dimethylphthalate	AVRG		0.56113637		8.1	
Diethylphthalate	AVRG		0.60103106		3.8	
4-Chlorophenyl-phenylether	AVRG		0.25096712		12.2	
4-Nitroaniline	AVRG		0.11254886		9.2	
4,6-Dinitro-2-methylphenol	LINR	0.11024561	19.2611532		0.980	<-
N-Nitrosodiphenylamine	AVRG		0.33228680		10.1	
4-Bromophenyl-phenylether	AVRG		9.396e-002		14.9	
Hexachlorobenzene	AVRG		9.243e-002		8.1	
Pentachlorophenol	LINR	4.895e-002	16.7488263		0.990	
Phenanthrene	AVRG		0.37491569		9.1	
Anthracene	AVRG		0.37625469		9.1	
Di-n-Butylphthalate	AVRG		0.50959810		6.3	
Fluoranthene	AVRG		0.38353021		7.7	
Pyrene	AVRG		0.52647744		6.2	
Butylbenzylphthalate	AVRG		0.36568665		9.6	
Benzo(a)Anthracene	AVRG		0.57669680		8.5	
3,3'-Dichlorobenzidine	AVRG		0.21638304		9.3	
Chrysene	AVRG		0.46765494		7.6	
bis(2-ethylhexyl)Phthalate	AVRG		0.58819067		7.4	
Di-n-octylphthalate	AVRG		1.14394084		9.3	
Benzo(b)fluoranthene	AVRG		0.63652182		7.4	
Benzo(k)fluoranthene	AVRG		0.68153391		8.6	
Benzo(a)pyrene	AVRG		0.62666041		9.8	
Indeno(1,2,3-cd)pyrene	AVRG		0.69152408		11.1	
Dibenzo(a,h)anthracene	AVRG		0.60167310		8.8	
Benzo(g,h,i)perylene	AVRG		0.59729976		7.3	
Carbazole	AVRG		0.32400903		8.9	
2,3,4,6-Tetrachlorophenol	AVRG		0.11556656		18.9	<-
2,3,4,5;2,3,5,6-TCP	LINR	6.7e-002	11.9831062		0.997	
Azobenzene	2ORDR	1.719e-002	0.68781120	0.34406414	0.997	
2-Fluorophenol	LINR	-4.43e-005	1.53051239		0.991	
Phenol-d5	AVRG		0.72519010		15.5	

Northeast Analytical Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: GCMS3.i
Lab File ID: M3082004.d
Analysis Type: WATER
Lab Sample ID: CCV3-0820B
Method: \\NORTHEAST1\VOL2\tp04\GCMS3.i\082004-PH.b\8270PH.m

Injection Date: 20-AUG-2004 09:19
Init. Cal. Date(s): 18-AUG-2004 18-AUG-2004
Init. Cal. Times: 10:47 22:30
Quant Type: ISTD

	COMPOUND	RRF	RF40	MIN RRF	%D	MAX %D	
	38 2-Nitroaniline	0.13418	0.16264	0.050	21.2	30.0	
	39 Dimethylphthalate	0.56114	0.67836	0.050	20.9	30.0	
	40 Acenaphthylene	0.65641	0.79859	0.050	21.7	30.0	
	41 2,6-Dinitrotoluene	0.11926	0.14001	0.050	17.4	30.0	
	43 3-Nitroaniline	0.12243	0.17121	0.050	39.8	30.0	<-
	44 Acenaphthene	0.48869	0.58667	0.050	20.0	20.0	<-
	45 4-Nitrophenol	0.06754	0.07914	0.001	17.2	30.0	
	46 Dibenzofuran	40.00000	46.13511	0.050	-15.3	30.0	
	47 2,3,4,6-Tetrachlorophenol	0.11557	0.13898	0.050	20.3	30.0	
	48 Diethylphthalate	0.60103	0.71021	0.050	18.2	30.0	
	49 2,3,4,5;2,3,5,6-TCP	80.00000	83.39476	0.001	-4.2	30.0	
	50 2,4-Dinitrophenol	40.00000	34.65509	0.000	13.4	30.0	
	51 2,4-Dinitrotoluene	0.19958	0.24808	0.050	24.3	30.0	
	52 4-Chlorophenyl-phenylether	0.25097	0.29968	0.050	19.4	30.0	
	53 Fluorene	0.41648	0.48968	0.050	17.6	30.0	
	54 N-Nitrosodiphenylamine	0.33229	0.37777	0.050	13.7	30.0	
	55 4-Nitroaniline	0.11255	0.13288	0.050	18.1	30.0	
	56 Azobenzene	40.00000	62.79449	0.050	-57.0	30.0	<-
$	57 2,4,6-Tribromophenol	40.00000	45.43735	0.050	-13.6	30.0	
	58 4,6-Dinitro-2-methylphenol	40.00000	42.74895	0.050	-6.9	30.0	
	59 4-Bromophenyl-phenylether	0.09396	0.10625	0.050	13.1	30.0	
	60 Hexachlorobenzene	0.09243	0.10883	0.050	17.7	30.0	
	61 Pentachlorophenol	40.00000	40.03411	0.001	-0.1	20.0	
	63 Phenanthrene	0.37492	0.42012	0.050	12.1	30.0	
	64 Anthracene	0.37625	0.42624	0.050	13.3	30.0	
	65 Carbazole	0.32401	0.37569	0.050	16.0	30.0	
	66 Di-n-Butylphthalate	0.50960	0.56552	0.050	11.0	30.0	
	67 Fluoranthene	0.38353	0.41616	0.050	8.5	20.0	
	68 Pyrene	0.52648	0.56003	0.050	6.4	30.0	
$	69 Terphenyl-d14	0.39182	0.36902	0.050	-5.8	30.0	
	70 Butylbenzylphthalate	0.36569	0.35651	0.050	-2.5	30.0	
	71 bis(2-ethylhexyl)Phthalate	0.58819	0.57504	0.050	-2.2	30.0	
	72 3,3'-Dichlorobenzidine	0.21638	0.20196	0.050	-6.7	30.0	
	73 Benzo(a)Anthracene	0.57670	0.53738	0.050	-6.8	30.0	
	75 Chrysene	0.46765	0.45901	0.050	-1.8	30.0	
	76 Di-n-octylphthalate	1.14394	1.32320	0.050	15.7	20.0	

APPENDIX B

SVOC METHOD BLANK EXCEEDANCE SUMMARY FORMS

TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
METHOD PREPARATION BLANK

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom
Test Date: 08/11/04
Analytical Batch No: 219946
QC Batch No: 98153-110
Units: ug/L

Parameter	Blank Concentration		Quantitation Limit
1,2,4-Trichlorobenzene	ND	U	2.0
1,2-Dichlorobenzene	ND	U	1.0
1,3-Dichlorobenzene	ND	U	1.0
1,4-Dichlorobenzene	ND	U	1.0
2,4,5-Trichlorophenol	ND	U	1.0
2,4,6-Trichlorophenol	ND	U	1.0
2,4-Dichlorophenol	ND	U	1.0
2,4-Dimethylphenol	ND	U	1.0
2,4-Dinitrophenol	ND	U	1.0
2,4-Dinitrotoluene	ND	U	1.0
2,6-Dinitrotoluene	ND	U	1.0
2-Chloronaphthalene	ND	U	1.0
2-Chlorophenol	ND	U	1.0
2-Methylnaphthalene	ND	U	1.0
2-Methylphenol	ND	U	1.0
2-Nitroaniline	ND	U	1.0
2-Nitrophenol	ND	U	1.0
3,3'-Dichlorobenzidine	ND	U	5.0
3-Nitroaniline	ND	U	1.0
4,6-Dinitro-2-Methylphenol	ND	U	1.0
4-Bromophenyl Phenylether	ND	U	1.0
4-Chloro-3-Methylphenol	0.180	J	1.0
4-Chloroaniline	ND	U	1.0
4-Chlorophenylphenyl-Ether	ND	U	1.0
4-Methylphenol	ND	U	1.0
4-Nitroaniline	ND	U	1.0
4-Nitrophenol	ND	U	1.0
Acenaphthene	ND	U	1.0
Acenaphthylene	ND	U	1.0
Aniline	ND	U	5.0
Anthracene	ND	U	1.0
Benzo (a) Anthracene	ND	U	1.0
Benzo (a) Pyrene	ND	U	1.0
Benzo (b) Fluoranthene	ND	U	1.0
Benzo (g,h,i,) Perylene	ND	U	1.0
Benzo (k) Fluoranthene	ND	U	1.0

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TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
METHOD PREPARATION BLANK

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom
Analytical Batch No: 219946
QC Batch No: 98153-110
Units: ug/L

Test Date: 08/11/04

Parameter	Blank Concentration		Quantitation Limit
Bis (2-Chloroethyl) Ether	ND	U	1.0
Bis (2-Chloroisopropyl)-Ether	ND	U	1.0
Bis (2-ethylhexyl)-Phthalate	**1.10**	**J**	5.0
Bis (2-Chloroethoxy)-Methane	ND	U	1.0
Butyl Benzyl Phthalate	**0.250**	**J**	5.0
Carbazole	ND	U	1.0
Chrysene	ND	U	1.0
Dibenzo (a,h) Anthracene	ND	U	1.0
Dibenzofuran	ND	U	1.0
Diethylphthalate	**0.0860**	**J**	1.0
Dimethylphthalate	ND	U	1.0
Di-n-Butylphthalate	ND	U	10
Di-n-Octylphthalate	ND	U	1.0
Fluoranthene	ND	U	1.0
Fluorene	ND	U	1.0
Hexachlorobenzene	ND	U	1.0
Hexachlorobutadiene	ND	U	1.0
Hexachlorocyclopentadiene	ND	U	1.0
Hexachloroethane	ND	U	1.0
Indeno (1,2,3-cd) Pyrene	ND	U	1.0
Isophorone	ND	U	1.0
Naphthalene	ND	U	1.0
Nitrobenzene	ND	U	1.0
N-Nitrosodi-n-Propylamine	ND	U	1.0
N-Nitroso-di-Phenylamine	ND	U	1.0
Pentachlorophenol	ND	U	1.0
Phenanthrene	ND	U	1.0
Phenol	ND	U	1.0
Pyrene	ND	U	1.0

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QUALITY CONTROL REPORT
METHOD PREPARATION BLANK

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom Test Date: 08/11/04
Analytical Batch No: 219946
QC Batch No: 98153-110
Units: ug/L

Parameter	Blank Concentration		Quantitation Limit
1,2,4-Trichlorobenzene	ND	U	2.0
1,2-Dichlorobenzene	ND	U	1.0
1,3-Dichlorobenzene	ND	U	1.0
1,4-Dichlorobenzene	ND	U	1.0
2,4,5-Trichlorophenol	ND	U	1.0
2,4,6-Trichlorophenol	ND	U	1.0
2,4-Dichlorophenol	ND	U	1.0
2,4-Dimethylphenol	ND	U	1.0
2,4-Dinitrophenol	ND	U	1.0
2,4-Dinitrotoluene	ND	U	1.0
2,6-Dinitrotoluene	ND	U	1.0
2-Chloronaphthalene	ND	U	1.0
2-Chlorophenol	ND	U	1.0
2-Methylnaphthalene	ND	U	1.0
2-Methylphenol	ND	U	1.0
2-Nitroaniline	ND	U	1.0
2-Nitrophenol	ND	U	1.0
3,3'-Dichlorobenzidine	ND	U	5.0
3-Nitroaniline	ND	U	1.0
4,6-Dinitro-2-Methylphenol	ND	U	1.0
4-Bromophenyl Phenylether	ND	U	1.0
4-Chloro-3-Methylphenol	0.180	J	1.0
4-Chloroaniline	ND	U	1.0
4-Chlorophenylphenyl-Ether	ND	U	1.0
4-Methylphenol	ND	U	1.0
4-Nitroaniline	ND	U	1.0
4-Nitrophenol	ND	U	1.0
Acenaphthene	ND	U	1.0
Acenaphthylene	ND	U	1.0
Aniline	ND	U	5.0
Anthracene	ND	U	1.0
Benzo (a) Anthracene	ND	U	1.0
Benzo (a) Pyrene	ND	U	1.0
Benzo (b) Fluoranthene	ND	U	1.0
Benzo (g,h,i,) Perylene	ND	U	1.0
Benzo (k) Fluoranthene	ND	U	1.0

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Individual sample results relate only to the sample tested.
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QUALITY CONTROL REPORT
METHOD PREPARATION BLANK

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom Test Date: 08/11/04
Analytical Batch No: 219946
QC Batch No: 98153-110
Units: ug/L

Parameter	Blank Concentration		Quantitation Limit
Bis (2-Chloroethyl) Ether	ND	U	1.0
Bis (2-Chloroisopropyl)-Ether	ND	U	1.0
Bis (2-ethylhexyl)-Phthalate	**1.10**	**J**	5.0
Bis (2-Chloroethoxy)-Methane	ND	U	1.0
Butyl Benzyl Phthalate	**0.250**	**J**	5.0
Carbazole	ND	U	1.0
Chrysene	ND	U	1.0
Dibenzo (a,h) Anthracene	ND	U	1.0
Dibenzofuran	ND	U	1.0
Diethylphthalate	**0.0860**	**J**	1.0
Dimethylphthalate	ND	U	1.0
Di-n-Butylphthalate	ND	U	10
Di-n-Octylphthalate	ND	U	1.0
Fluoranthene	ND	U	1.0
Fluorene	ND	U	1.0
Hexachlorobenzene	ND	U	1.0
Hexachlorobutadiene	ND	U	1.0
Hexachlorocyclopentadiene	ND	U	1.0
Hexachloroethane	ND	U	1.0
Indeno (1,2,3-cd) Pyrene	ND	U	1.0
Isophorone	ND	U	1.0
Naphthalene	ND	U	1.0
Nitrobenzene	ND	U	1.0
N-Nitrosodi-n-Propylamine	ND	U	1.0
N-Nitroso-di-Phenylamine	ND	U	1.0
Pentachlorophenol	ND	U	1.0
Phenanthrene	ND	U	1.0
Phenol	ND	U	1.0
Pyrene	ND	U	1.0

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FORM 1 US ARMY CORP OF ENGINEERS SAM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AH08534BLANK

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04080062USACE-SC

Matrix: (soil/water) WATER Lab Sample ID: AH08534B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M3082013

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 08/20/04

GC Column: DBXLB ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	1.00	U
83-32-9	Acenaphthene	1.00	U
51-28-5	2,4-Dinitrophenol	1.00	U
132-64-9	Dibenzofuran	1.00	U
100-02-7	4-Nitrophenol	1.00	U
121-14-2	2,4-Dinitrotoluene	1.00	U
86-73-7	Fluorene	1.00	U
131-11-3	Dimethylphthalate	1.00	U
84-66-2	Diethylphthalate	1.00	U
7005-72-3	4-Chlorophenyl-phenylether	1.00	U
100-01-6	4-Nitroaniline	1.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1.00	U
86-30-6	N-Nitrosodiphenylamine (1)	1.00	U
101-55-3	4-Bromophenyl-phenylether	1.00	U
118-74-1	Hexachlorobenzene	1.00	U
87-86-5	Pentachlorophenol	1.00	U
85-01-8	Phenanthrene	1.00	U
120-12-7	Anthracene	1.00	U
84-74-2	Di-n-Butylphthalate	1.00	U
206-44-0	Fluoranthene	1.00	U
129-00-0	Pyrene	1.00	U
85-68-7	Butylbenzylphthalate	1.00	U
56-55-3	Benzo(a)Anthracene	1.00	U
91-94-1	3,3'-Dichlorobenzidine	1.00	U
218-01-9	Chrysene	1.00	U
117-81-7	bis(2-ethylhexyl)Phthalate	2.20	
117-84-0	Di-n-octylphthalate	1.00	U
205-99-2	Benzo(b)fluoranthene	1.00	U
207-08-9	Benzo(k)fluoranthene	1.00	U
50-32-8	Benzo(a)pyrene	1.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U
53-70-3	Dibenzo(a,h)anthracene	1.00	U
191-24-2	Benzo(g,h,i)perylene	1.00	U

APPENDIX C

SVOC SURROGATE AND INTERNAL STANDARD EXCEEDANCE SUMMARY FORMS

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: TRIMATRIX Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Lab File ID (Standard) : 10C0706A Date Analyzed: 07/06/04

Instrument ID: 138 Time Analyzed: 15:55

	IS4 AREA	#	RT	#	IS5 AREA	#	RT	#	IS6 AREA	#	RT	#
12 HOUR STD	2291602		20:27		2110632		24:49		2515841		29:34	
UPPER LIMIT	4583204		20:57		4221264		25:19		5031682		30:04	
LOWER LIMIT	1145801		19:57		1055316		24:19		1257921		29:04	
EPA SAMPLE NO.												
INST BLK	2235629		20:28		2348830		24:52		2465186		29:38	
METHOD BLK	2507725		20:29		2421186		24:52		2398456		29:40	
LAB FORT BL	2539797		20:27		2287620		24:49		2493199		29:31	
AD2004SS12D	2972204		20:27		2233696		24:49		3782473		29:35	
AD2004SS12M	2582923		20:28		1888175		24:51		3354845		29:40	
AD2004SS12M	2518416		20:30		1991559		24:56		3796931		29:50	
AD2004SS12S	2142818		20:31		2330648		24:57		3295517		29:49	
AD2004SS25S	2409237		20:28		2365740		24:52		3175831		29:40	
AD2004SS29S	2546142		20:27		2475060		24:51		3003466		29:41	
AD2004SS11S	2227757		20:29		2006057		24:55		2848068		29:49	
AD2004SS11D	2431947		20:31		2179112		25:00		2351302		30:00	
AD2004SS12S	2618785		20:34		1684663		25:06		3986509		30:11	*
AD2004SS25S	2401798		20:31		1498990		24:59		4444555		30:01	

IS4 = IS:D10-Phenanthrene
IS5 = IS:D12-Chrysene
IS6 = IS:D12-Perylene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270

b Name: TRIMATRIX Contract: SATURN 3

b Code: GC/MS Case No.: ION TRAP SAS No.: SDG No.:

b File ID (Standard) : 10C0906A Date Analyzed: 09/06/04

STRUMENT ID: 138 Time Analyzed: 11:09

Column: DB5MS ID: 0.32 (mm)

	IS4 AREA	#	RT	#	IS5 AREA	#	RT	#	IS6 AREA	#	RT	#
12 HOUR STD	2863601		20:24		2472846		24:42		2629730		29:22	
UPPER LIMIT	5727202		20:54		4945692		25:12		5259460		29:52	
LOWER LIMIT	1431801		19:54		1236423		24:12		1314865		28:52	
EPA SAMPLE NO.												
INST BLK	3784431		20:26		3892348		24:46		3651997		29:27	
METHOD BLK	2564492		20:23		2341935		24:40		1913752		29:18	
AD2004SS-B1	1647758		20:25		1472349		24:45		1657863		29:26	
AD2004SS-B1	4854850		20:26		4315278		24:47		6478407	*	29:31	
AD2004SS-B1	4785253		20:23		3458399		24:43		6776843	*	29:23	
AD2004SS-B1	4659843		20:23		3504720		24:42		6708587	*	29:23	

ran @ 5x for high IS results.

IS4 = IS:D10-Phenanthrene
IS5 = IS:D12-Chrysene
IS6 = IS:D12-Perylene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

APPENDIX D

SVOC MS/MSD EXCEEDANCE SUMMARY FORMS

TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 07/01/04
Analytical Batch No: 218550
QC Batch No: 97197-129
Sample No: 364042
Units: mg/kg dry

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzo (k) Fluoranthene	0.60	0.383	0.930	86	62 - 125
Bis (2-Chloroethyl) Ether	<0.033	0.383	0.278	73	60 - 116
Bis (2-Chloroisopropyl)-Ether	<0.033	0.383	0.338	88	58 - 141
Bis (2-ethylhexyl)-Phthalate	0.094	0.383	0.393	78	55 - 123
Bis (2-Chloroethoxy)-Methane	<0.066	0.383	0.330	86	56 - 122
Butyl Benzyl Phthalate	0.013	0.383	0.448	114	61 - 120
Carbazole	0.062	0.383	0.369	80	70 - 130
Chrysene	0.88	0.383	1.19	81	70 - 123
Dibenzo (a,h) Anthracene	0.078	0.383	0.342	69	53 - 131
Dibenzofuran	0.016	0.383	0.346	86	65 - 114
Diethylphthalate	<0.033	0.383	0.349	91	57 - 119
Dimethylphthalate	<0.033	0.383	0.348	91	59 - 116
Di-n-Butylphthalate	0.10	0.383	0.584	126	62 - 126
Di-n-Octylphthalate	<0.033	0.383	0.427	111	61 - 121
Fluoranthene	1.9	0.383	2.36	**120**	66 - 117
Fluorene	0.032	0.383	0.378	90	65 - 112
Hexachlorobenzene	<0.033	0.383	0.311	81	63 - 113
Hexachlorobutadiene	<0.033	0.383	0.282	74	59 - 112
Hexachlorocyclopentadiene	<0.033	0.383	0.281	73	45 - 111
Hexachloroethane	<0.033	0.383	0.276	72	51 - 130
Indeno (1,2,3-cd) Pyrene	0.75	0.383	1.09	89	63 - 123
Isophorone	<0.033	0.383	0.293	77	68 - 112
Naphthalene	0.022	0.383	0.316	77	59 - 135
Nitrobenzene	<0.033	0.383	0.320	84	51 - 126
N-Nitrosodi-n-Propylamine	<0.033	0.383	0.322	84	50 - 128
N-Nitroso-di-Phenylamine	<0.033	0.383	0.366	96	57 - 132
Pentachlorophenol	0.022	0.383	0.291	70	33 - 130
Phenanthrene	0.55	0.383	1.01	**120**	67 - 116
Phenol	<0.033	0.383	0.326	85	53 - 118
Pyrene	1.3	0.383	1.86	**146**	51 - 135

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TriMatrix Laboratories, Inc.

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QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 07/01/04
Analytical Batch No: 218550
QC Batch No: 97197-129
Sample No: 364042
Units: mg/kg dry

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzo (k) Fluoranthene	0.60	0.383	0.856	67	62 - 125
Bis (2-Chloroethyl) Ether	<0.033	0.383	0.273	71	60 - 116
Bis (2-Chloroisopropyl)-Ether	<0.033	0.383	0.364	95	58 - 141
Bis (2-ethylhexyl)-Phthalate	0.094	0.383	0.418	85	55 - 123
Bis (2-Chloroethoxy)-Methane	<0.066	0.383	0.359	94	56 - 122
Butyl Benzyl Phthalate	0.013	0.383	0.403	102	61 - 120
Carbazole	0.062	0.383	0.360	78	70 - 130
Chrysene	0.88	0.383	1.25	97	70 - 123
Dibenzo (a,h) Anthracene	0.078	0.383	0.340	68	53 - 131
Dibenzofuran	0.016	0.383	0.380	95	65 - 114
Diethylphthalate	<0.033	0.383	0.399	104	57 - 119
Dimethylphthalate	<0.033	0.383	0.394	103	59 - 116
Di-n-Butylphthalate	0.10	0.383	0.655	**145**	62 - 126
Di-n-Octylphthalate	<0.033	0.383	0.410	107	61 - 121
Fluoranthene	1.9	0.383	2.25	91	66 - 117
Fluorene	0.032	0.383	0.423	102	65 - 112
Hexachlorobenzene	<0.033	0.383	0.346	90	63 - 113
Hexachlorobutadiene	<0.033	0.383	0.323	84	59 - 112
Hexachlorocyclopentadiene	<0.033	0.383	0.294	77	45 - 111
Hexachloroethane	<0.033	0.383	0.312	81	51 - 130
Indeno (1,2,3-cd) Pyrene	0.75	0.383	1.06	81	63 - 123
Isophorone	<0.033	0.383	0.316	83	68 - 112
Naphthalene	0.022	0.383	0.358	88	59 - 135
Nitrobenzene	<0.033	0.383	0.365	95	51 - 126
N-Nitrosodi-n-Propylamine	<0.033	0.383	0.358	93	50 - 128
N-Nitroso-di-Phenylamine	<0.033	0.383	0.401	105	57 - 132
Pentachlorophenol	0.022	0.383	0.318	77	33 - 130
Phenanthrene	0.55	0.383	0.896	90	67 - 116
Phenol	<0.033	0.383	0.344	90	53 - 118
Pyrene	1.3	0.383	1.55	65	51 - 135

00186

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TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 07/01/04
Analytical Batch No: 218550
QC Batch No: 97197-129
Sample No: 364042
Units: mg/kg dry

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits	
1,2,4-Trichlorobenzene	<0.033	0.383	0.324	85	63 - 112	
1,2-Dichlorobenzene	<0.033	0.383	0.330	86	62 - 115	
1,3-Dichlorobenzene	<0.033	0.383	0.260	68	59 - 114	
1,4 Dichlorobenzene	<0.033	0.383	0.304	79	56 - 116	
2,4,5-Trichlorophenol	<0.033	0.383	0.377	98	56 - 112	
2,4,6-Trichlorophenol	<0.033	0.383	0.379	99	56 - 117	
2,4-Dichlorophenol	<0.033	0.383	0.381	99	64 - 110	
2,4-Dimethylphenol	<0.17	0.383	0.342	89	33 - 127	
2,4-Dinitrophenol	<0.033	0.383	0.240	63	28 - 97	
2,4-Dinitrotoluene	<0.033	0.383	0.354	92	~~47 - 133~~	28-89
2,6-Dinitrotoluene	<0.033	0.383	0.375	98	61 - 114	
2-Chloronaphthalene	<0.033	0.383	0.383	100	61 - 114	
2-Chlorophenol	<0.033	0.383	0.320	84	58 - 120	
2-Methylnaphthalene	0.011	0.383	0.401	102	56 - 122	
2-Methylphenol	<0.033	0.383	0.342	89	52 - 115	
2-Nitroaniline	<0.033	0.383	0.366	96	60 - 112	
2-Nitrophenol	<0.033	0.383	0.367	96	59 - 128	
3,3'-Dichlorobenzidine	<2.0	0.383	0.295	77	31 - 117	
3-Nitroaniline	<0.033	0.383	0.146	38	32 - 107	
4,6-Dinitro-2-Methylphenol	<0.033	0.383	0.249	65	22 - 132	
4-Bromophenyl Phenylether	<0.033	0.383	0.371	97	67 - 113	
4-Chloro-3-Methylphenol	0.0082	0.383	0.397	102	63 - 116	
4-Chloroaniline	<0.17	0.383	0.177	46	30 - 92	
4-Chlorophenylphenyl-Ether	<0.033	0.383	0.382	100	49 - 123	
4 Methylphenol	<0.033	0.383	0.312	81	47 - 120	
4-Nitroaniline	<0.033	0.383	0.274	72	57 - 110	
4-Nitrophenol	<0.066	0.383	0.378	99	41 - 125	
Acenaphthene	0.022	0.383	0.379	93	47 - 124	
Acenaphthylene	0.18	0.383	0.591	107	70 - 112	
Aniline	<0.17	0.383	0.0846	22	1 - 105	
Anthracene	0.12	0.383	0.486	96	66 - 118	
Benzo (a) Anthracene	0.97	0.383	1.30	86	68 - 129	
Benzo (a) Pyrene	1.2	0.383	1.63	112	61 - 124	
Benzo (b) Fluoranthene	1.1	0.383	1.38	73	55 - 135	
Benzo (g,h,i,) Perylene	0.69	0.383	1.01	84	61 - 118	

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TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 07/06/04
Analytical Batch No: 218561
QC Batch No: 97201-129
Sample No: 364053
Units: mg/kg dry

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzo (k) Fluoranthene	0.22	0.397	0.492	69	62 - 125
Bis (2-Chloroethyl) Ether	<0.033	0.397	0.332	84	60 - 116
Bis (2-Chloroisopropyl)-Ether	<0.033	0.397	0.376	95	58 - 141
Bis (2-ethylhexyl)-Phthalate	0.19	0.397	0.519	83	55 - 123
Bis (2-Chloroethoxy)-Methane	<0.066	0.397	0.339	85	56 - 122
Butyl Benzyl Phthalate	<0.033	0.397	0.485	**122**	61 - 120
Carbazole	0.068	0.397	0.406	85	70 - 130
Chrysene	0.38	0.397	0.759	95	70 - 123
Dibenzo (a,h) Anthracene	0.090	0.397	0.312	56	53 - 131
Dibenzofuran	0.016	0.397	0.352	85	65 - 114
Diethylphthalate	<0.033	0.397	0.372	94	57 - 119
Dimethylphthalate	<0.033	0.397	0.360	91	59 - 116
Di-n-Butylphthalate	0.035	0.397	0.394	90	62 - 126
Di-n-Octylphthalate	<0.033	0.397	0.395	99	61 - 121
Fluoranthene	0.70	0.397	0.991	73	66 - 117
Fluorene	0.040	0.397	0.398	90	65 - 112
Hexachlorobenzene	<0.033	0.397	0.275	69	63 - 113
Hexachlorobutadiene	<0.033	0.397	0.313	79	59 - 112
Hexachlorocyclopentadiene	<0.033	0.397	0.206	52	45 - 111
Hexachloroethane	<0.033	0.397	0.356	90	51 - 130
Indeno (1,2,3-cd) Pyrene	0.31	0.397	0.661	88	63 - 123
Isophorone	<0.033	0.397	0.297	75	68 - 112
Naphthalene	0.022	0.397	0.358	85	59 - 135
Nitrobenzene	<0.033	0.397	0.337	85	51 - 126
N-Nitrosodi-n-Propylamine	<0.033	0.397	0.374	94	50 - 128
N-Nitroso-di-Phenylamine	<0.033	0.397	0.361	91	57 - 132
Pentachlorophenol	<0.033	0.397	0.192	48	33 - 130
Phenanthrene	0.39	0.397	0.765	94	67 - 116
Phenol	<0.033	0.397	0.366	92	53 - 118
Pyrene	0.80	0.397	1.29	123	51 - 135

00187

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QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 07/06/04
Analytical Batch No: 218561
QC Batch No: 97201-129
Sample No: 364053
Units: mg/kg dry

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzo (k) Fluoranthene	0.22	0.397	0.488	68	62 - 125
Bis (2-Chloroethyl) Ether	<0.033	0.397	0.342	86	60 - 116
Bis (2-Chloroisopropyl)-Ether	<0.033	0.397	0.385	97	58 - 141
Bis (2-ethylhexyl)-Phthalate	0.19	0.397	0.543	89	55 - 123
Bis (2-Chloroethoxy)-Methane	<0.066	0.397	0.343	86	56 - 122
Butyl Benzyl Phthalate	<0.033	0.397	0.459	116	61 - 120
Carbazole	0.068	0.397	0.418	88	70 - 130
Chrysene	0.38	0.397	0.777	100	70 - 123
Dibenzo (a,h) Anthracene	0.090	0.397	0.302	53	53 - 131
Dibenzofuran	0.016	0.397	0.351	84	65 - 114
Diethylphthalate	<0.033	0.397	0.368	93	57 - 119
Dimethylphthalate	<0.033	0.397	0.355	89	59 - 116
Di-n-Butylphthalate	0.035	0.397	0.370	84	62 - 126
Di-n-Octylphthalate	<0.033	0.397	0.376	95	61 - 121
Fluoranthene	0.70	0.397	0.984	72	66 - 117
Fluorene	0.040	0.397	0.400	91	65 - 112
Hexachlorobenzene	<0.033	0.397	0.280	71	63 - 113
Hexachlorobutadiene	<0.033	0.397	0.317	80	59 - 112
Hexachlorocyclopentadiene	<0.033	0.397	0.224	56	45 - 111
Hexachloroethane	<0.033	0.397	0.344	87	51 - 130
Indeno (1,2,3-cd) Pyrene	0.31	0.397	0.651	86	63 - 123
Isophorone	<0.033	0.397	0.304	77	68 - 112
Naphthalene	0.022	0.397	0.367	87	59 - 135
Nitrobenzene	<0.033	0.397	0.347	87	51 - 126
N-Nitrosodi-n-Propylamine	<0.033	0.397	0.383	96	50 - 128
N-Nitroso-di-Phenylamine	<0.033	0.397	0.394	99	57 - 132
Pentachlorophenol	<0.033	0.397	0.189	48	33 - 130
Phenanthrene	0.39	0.397	0.792	101	67 - 116
Phenol	<0.033	0.397	0.378	95	~~53 - 118~~ 26-90
Pyrene	0.80	0.397	1.23	108	51 - 135

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36620- 3

QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom
Analytical Batch No: 221399
QC Batch No: 98895-103
Sample No: 369217
Units: mg/kg dry

USEPA-8270C SOIL
Test Date: 09/06/04

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
1,2,4-Trichlorobenzene	ND	0.422	0.267	63	63 - 112
1,2-Dichlorobenzene	ND	0.422	0.281	67	62 - 115
1,3-Dichlorobenzene	ND	0.422	0.267	63	59 - 114
1,4-Dichlorobenzene	ND	0.422	0.261	62	56 - 116
2,4,5-Trichlorophenol	ND	0.422	0.255	60	56 - 112
2,4,6-Trichlorophenol	ND	0.422	0.256	61	56 - 117
2,4-Dichlorophenol	ND	0.422	0.264	**63**	64 - 110
2,4-Dimethylphenol	ND	0.422	0.267	63	33 - 127
2,4-Dinitrophenol	ND	0.422	0.0491	**12**	28 - 97
2,4-Dinitrotoluene	ND	0.422	0.260	62	47 - 133
2,6-Dinitrotoluene	ND	0.422	0.274	65	61 - 114
2-Chloronaphthalene	ND	0.422	0.278	66	61 - 114
2-Chlorophenol	ND	0.422	0.259	61	58 - 120
2-Methylnaphthalene	0.014	0.422	0.266	60	56 - 122
2-Methylphenol	ND	0.422	0.293	69	52 - 115
2-Nitroaniline	ND	0.422	0.279	66	60 - 112
2-Nitrophenol	ND	0.422	0.275	65	59 - 128
3,3'-Dichlorobenzidine	ND	0.422	0.169	40	31 - 117
3-Nitroaniline	ND	0.422	0.151	36	32 - 107
4,6-Dinitro-2-Methylphenol	ND	0.422	0.0854	**20**	22 - 132
4-Bromophenyl Phenylether	ND	0.422	0.252	**60**	67 - 113
4-Chloro-3-Methylphenol	0.0064	0.422	0.285	66	63 - 116
4-Chloroaniline	ND	0.422	0.117	**28**	30 - 92
4-Chlorophenylphenyl-Ether	ND	0.422	0.248	59	49 - 123
4-Methylphenol	ND	0.422	0.255	60	47 - 120
4-Nitroaniline	ND	0.422	0.199	**47**	57 - 110
4-Nitrophenol	ND	0.422	0.367	87	41 - 125
Acenaphthene	0.071	0.422	0.230	**38**	~~47 - 124~~ 31-137 (CAPP)
Acenaphthylene	0.014	0.422	0.270	**61**	70 - 112
Aniline	ND	0.422	0.0402	10	1 - 105
Anthracene	0.20	0.422	0.367	**40**	66 - 118
Benzo (a) Anthracene	0.49	0.422	0.656	**39**	68 - 129
Benzo (a) Pyrene	0.37	0.422	0.508	**33**	61 - 124
Benzo (b) Fluoranthene	0.28	0.422	0.424	**34**	55 - 135
Benzo (g,h,i,) Perylene	0.20	0.422	0.339	**33**	61 - 118

000058

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QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 09/06/04
Analytical Batch No: 221399
QC Batch No: 98895-103
Sample No: 369217
Units: mg/kg dry

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzo (k) Fluoranthene	0.21	0.422	0.264	**13**	62 - 125
Bis (2-Chloroethyl) Ether	ND	0.422	0.312	74	60 - 116
Bis (2-Chloroisopropyl)-Ether	ND	0.422	0.299	71	58 - 141
Bis (2-ethylhexyl)-Phthalate	0.11	0.422	0.322	**50**	55 - 123
Bis (2-Chloroethoxy)-Methane	ND	0.422	0.274	65	56 - 122
Butyl Benzyl Phthalate	ND	0.422	0.284	67	61 - 120
Carbazole	0.068	0.422	0.285	**51**	70 - 130
Chrysene	0.38	0.422	0.553	**41**	70 - 123
Dibenzo (a,h) Anthracene	0.057	0.422	0.186	**31**	53 - 131
Dibenzofuran	0.030	0.422	0.261	**55**	65 - 114
Diethylphthalate	ND	0.422	0.271	64	57 119
Dimethylphthalate	ND	0.422	0.286	68	59 - 116
Di-n-Butylphthalate	0.15	0.422	0.303	**36**	62 - 126
Di-n-Octylphthalate	ND	0.422	0.292	69	61 - 121
Fluoranthene	0.82	0.422	0.641	**0**	66 - 117
Fluorene	0.062	0.422	0.263	**48**	65 - 112
Hexachlorobenzene	ND	0.422	0.196	**46**	63 - 113
Hexachlorobutadiene	ND	0.422	0.270	64	59 - 112
Hexachlorocyclopentadiene	ND	0.422	0.199	47	45 - 111
Hexachloroethane	ND	0.422	0.296	70	51 - 130
Indeno (1,2,3-cd) Pyrene	0.25	0.422	0.493	**58**	63 - 123
Isophorone	ND	0.422	0.281	**67**	68 - 112
Naphthalene	0.026	0.422	0.264	**56**	59 - 135
Nitrobenzene	ND	0.422	0.250	59	51 - 126
N-Nitrosodi-n-Propylamine	ND	0.422	0.279	66	50 - 128
N-Nitroso-di-Phenylamine	ND	0.422	0.322	76	57 - 132
Pentachlorophenol	ND	0.422	0.167	40	33 - 130
Phenanthrene	0.58	0.422	0.484	**0**	67 - 116
Phenol	ND	0.422	0.290	69	53 - 118
Pyrene	0.69	0.422	0.790	**24**	~~51 — 135~~ 35-142 (QAPP)

000059

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36620- 3

QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 09/06/04
Analytical Batch No: 221399
QC Batch No: 98895-103
Sample No: 369217
Units: mg/kg dry

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits	
1,2,4-Trichlorobenzene	ND	0.422	0.258	**61**	~~63 - 112~~	38-107 (CAPP)
1,2-Dichlorobenzene	ND	0.422	0.273	65	62 - 115	
1,3-Dichlorobenzene	ND	0.422	0.263	62	59 - 114	
1,4-Dichlorobenzene	ND	0.422	0.265	63	56 - 116	
2,4,5-Trichlorophenol	ND	0.422	0.252	60	56 - 112	
2,4,6-Trichlorophenol	ND	0.422	0.255	60	56 - 117	
2,4-Dichlorophenol	ND	0.422	0.251	**59**	64 - 110	
2,4-Dimethylphenol	ND	0.422	0.252	60	33 - 127	
2,4-Dinitrophenol	ND	0.422	0.0259	**6**	28 - 97	
2,4-Dinitrotoluene	ND	0.422	0.243	58	47 - 133	
2,6-Dinitrotoluene	ND	0.422	0.249	**59**	61 - 114	
2-Chloronaphthalene	ND	0.422	0.267	63	61 - 114	
2-Chlorophenol	ND	0.422	0.248	59	58 - 120	
2-Methylnaphthalene	0.014	0.422	0.254	57	56 - 122	
2-Methylphenol	ND	0.422	0.271	64	52 - 115	
2-Nitroaniline	ND	0.422	0.272	64	60 - 112	
2-Nitrophenol	ND	0.422	0.280	66	59 - 128	
3,3'-Dichlorobenzidine	ND	0.422	0.159	38	31 - 117	
3-Nitroaniline	ND	0.422	0.139	33	32 - 107	
4,6-Dinitro-2-Methylphenol	ND	0.422	0.0699	**17**	22 - 132	
4-Bromophenyl Phenylether	ND	0.422	0.247	59	67 - 113	
4-Chloro-3-Methylphenol	0.0064	0.422	0.264	**61**	~~63 - 116~~	26-103 (CAPP)
4-Chloroaniline	ND	0.422	0.0735	**17**	30 - 92	
4-Chlorophenylphenyl-Ether	ND	0.422	0.221	52	49 - 123	
4-Methylphenol	ND	0.422	0.254	60	47 - 120	
4-Nitroaniline	ND	0.422	0.205	**49**	57 - 110	
4-Nitrophenol	ND	0.422	0.344	82	41 - 125	
Acenaphthene	0.071	0.422	0.215	**34**	~~47 - 124~~	31-137 (CAPP)
Acenaphthylene	0.014	0.422	0.251	**56**	70 - 112	
Aniline	ND	0.422	0.0288	7	1 - 105	
Anthracene	0.20	0.422	0.321	**29**	66 - 118	
Benzo (a) Anthracene	0.49	0.422	0.542	**12**	68 - 129	
Benzo (a) Pyrene	0.37	0.422	0.383	**3**	61 - 124	
Benzo (b) Fluoranthene	0.28	0.422	0.312	**8**	55 - 135	
Benzo (g,h,i,) Perylene	0.20	0.422	0.281	**19**	61 - 118	

000060

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36620- 3

QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 09/06/04
Analytical Batch No: 221399
QC Batch No: 98895-103
Sample No: 369217
Units: mg/kg dry

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzo (k) Fluoranthene	0.21	0.422	0.192	**0**	62 - 125
Bis (2-Chloroethyl) Ether	ND	0.422	0.286	68	60 - 116
Bis (2-Chloroisopropyl)-Ether	ND	0.422	0.277	66	58 - 141
Bis (2-ethylhexyl)-Phthalate	0.11	0.422	0.286	**42**	55 - 123
Bis (2-Chloroethoxy)-Methane	ND	0.422	0.259	61	56 - 122
Butyl Benzyl Phthalate	ND	0.422	0.259	61	61 - 120
Carbazole	0.068	0.422	0.255	**44**	70 - 130
Chrysene	0.38	0.422	0.420	**9**	70 - 123
Dibenzo (a,h) Anthracene	0.057	0.422	0.177	**28**	53 - 131
Dibenzofuran	0.030	0.422	0.249	**52**	65 - 114
Diethylphthalate	ND	0.422	0.261	62	57 - 119
Dimethylphthalate	ND	0.422	0.274	65	59 - 116
Di-n-Butylphthalate	0.15	0.422	0.289	**33**	62 - 126
Di-n-Octylphthalate	ND	0.422	0.241	**57**	61 - 121
Fluoranthene	0.82	0.422	0.499	**0**	66 - 117
Fluorene	0.062	0.422	0.254	**45**	65 - 112
Hexachlorobenzene	ND	0.422	0.180	**43**	63 - 113
Hexachlorobutadiene	ND	0.422	0.256	61	59 - 112
Hexachlorocyclopentadiene	ND	0.422	0.119	**28**	45 - 111
Hexachloroethane	ND	0.422	0.295	70	51 - 130
Indeno (1,2,3-cd) Pyrene	0.25	0.422	0.419	**40**	63 - 123
Isophorone	ND	0.422	0.272	64	68 - 112
Naphthalene	0.026	0.422	0.250	**53**	59 - 135
Nitrobenzene	ND	0.422	0.244	58	51 - 126
N-Nitrosodi-n-Propylamine	ND	0.422	0.271	64	50 - 128
N-Nitroso-di-Phenylamine	ND	0.422	0.302	72	57 - 132
Pentachlorophenol	ND	0.422	0.162	38	33 - 130
Phenanthrene	0.58	0.422	0.381	**0**	67 - 116
Phenol	ND	0.422	0.276	65	53 - 118
Pyrene	0.69	0.422	0.638	**0**	51 - 135

000061

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36620- 3

QUALITY CONTROL REPORT
MATRIX SPIKE DUPLICATE
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 09/06/04
Analytical Batch No: 221399
QC Batch No: 98895-103
Sample No: 369217
Units: mg/kg dry

Parameter	Sample+Spike Conc #1	Sample+Spike Conc #2	Relative % Diff.	Control Limits
1,2,4-Trichlorobenzene	0.267	0.258	3	0 - 24
1,2-Dichlorobenzene	0.281	0.273	3	0 - 19
1,3-Dichlorobenzene	0.267	0.263	2	0 - 22
1,4-Dichlorobenzene	0.261	0.265	2	0 - 27
2,4,5-Trichlorophenol	0.255	0.252	1	0 - 15
2,4,6-Trichlorophenol	0.256	0.255	0	0 - 26
2,4-Dichlorophenol	0.264	0.251	5	0 - 20
2,4-Dimethylphenol	0.267	0.252	6	0 - 40
2,4-Dinitrophenol	0.0491	0.0259	**62**	0 - 32
2,4-Dinitrotoluene	0.260	0.243	7	0 - 22
2,6-Dinitrotoluene	0.274	0.249	10	0 - 20
2-Chloronaphthalene	0.278	0.267	4	0 - 17
2-Chlorophenol	0.259	0.248	4	0 - 16
2-Methylnaphthalene	0.266	0.254	5	0 - 17
2-Methylphenol	0.293	0.271	8	0 - 22
2-Nitroaniline	0.279	0.272	3	0 - 11
2-Nitrophenol	0.275	0.280	2	0 - 13
3,3'-Dichlorobenzidine	0.169	0.159	6	0 - 39
3-Nitroaniline	0.151	0.139	8	0 - 24
4,6-Dinitro-2-Methylphenol	0.0854	0.0699	20	0 - 46
4-Bromophenyl Phenylether	0.252	0.247	2	0 - 19
4-Chloro-3-Methylphenol	0.285	0.264	8	0 - 21
4-Chloroaniline	0.117	0.0735	**46**	0 - 40
4-Chlorophenylphenyl-Ether	0.248	0.221	12	0 - 12
4-Methylphenol	0.255	0.254	0	0 - 11
4-Nitroaniline	0.199	0.205	3	0 - 25
4-Nitrophenol	0.367	0.344	6	0 - 24
Acenaphthene	0.230	0.215	7	0 - 22
Acenaphthylene	0.270	0.251	7	0 - 29
Aniline	0.0402	0.0288	33	0 - 60
Anthracene	0.367	0.321	13	0 - 20
Benzo (a) Anthracene	0.656	0.542	19	0 - 26
Benzo (a) Pyrene	0.508	0.383	**28**	0 - 20
Benzo (b) Fluoranthene	0.424	0.312	**30**	0 - 27
Benzo (g,h,i,) Perylene	0.339	0.281	19	0 - 19

000062

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QUALITY CONTROL REPORT
MATRIX SPIKE DUPLICATE
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 09/06/04
Analytical Batch No: 221399
QC Batch No: 98895-103
Sample No: 369217
Units: mg/kg dry

Parameter	Sample+Spike Conc #1	Sample+Spike Conc #2	Relative % Diff.	Control Limits
Benzo (k) Fluoranthene	0.264	0.192	32	0 - 36
Bis (2-Chloroethyl) Ether	0.312	0.286	9	0 - 16
Bis (2-Chloroisopropyl)-Ether	0.299	0.277	8	0 - 10
Bis (2-ethylhexyl)-Phthalate	0.322	0.286	12	0 - 43
Bis (2-Chloroethoxy)-Methane	0.274	0.259	6	0 - 11
Butyl Benzyl Phthalate	0.284	0.259	9	0 - 18
Carbazole	0.285	0.255	11	0 - 40
Chrysene	0.553	0.420	**27**	0 - 20
Dibenzo (a,h) Anthracene	0.186	0.177	5	0 - 19
Dibenzofuran	0.261	0.249	5	0 - 26
Diethylphthalate	0.271	0.261	4	0 13
Dimethylphthalate	0.286	0.274	4	0 - 20
Di-n-Butylphthalate	0.303	0.289	5	0 - 13
Di-n-Octylphthalate	0.292	0.241	19	0 - 40
Fluoranthene	0.641	0.499	**25**	0 - 20
Fluorene	0.263	0.254	3	0 - 13
Hexachlorobenzene	0.196	0.180	9	0 - 13
Hexachlorobutadiene	0.270	0.256	5	0 - 25
Hexachlorocyclopentadiene	0.199	0.119	**50**	0 - 23
Hexachloroethane	0.296	0.295	0	0 - 18
Indeno (1,2,3-cd) Pyrene	0.493	0.419	16	0 - 20
Isophorone	0.281	0.272	3	0 - 12
Naphthalene	0.264	0.250	5	0 - 20
Nitrobenzene	0.250	0.244	2	0 - 22
N-Nitrosodi-n-Propylamine	0.279	0.271	3	0 - 23
N-Nitroso-di-Phenylamine	0.322	0.302	6	0 - 18
Pentachlorophenol	0.167	0.162	3	0 - 36
Phenanthrene	0.484	0.381	**24**	0 - 15
Phenol	0.290	0.276	5	0 - 21
Pyrene	0.790	0.638	21	0 - 23

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TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom
Analytical Batch No: 221253
QC Batch No: 98895-103
Sample No: 369217DL
Units: mg/kg dry

USEPA-8270C SOIL
Test Date: 09/08/04

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzo (a) Pyrene	0.38	0.422	0.585	**49**	61 - 124
Benzo (b) Fluoranthene	0.35	0.422	0.603	60	55 - 135
Benzo (g,h,i,) Perylene	0.25	0.422	0.464	**51**	61 - 118
Benzo (k) Fluoranthene	0.30	0.422	0.423	**29**	62 - 125
Dibenzo (a,h) Anthracene	0.068	0.422	0.317	59	53 - 131

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QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 09/08/04
Analytical Batch No: 221253
QC Batch No: 98895-103
Sample No: 369217DL
Units: mg/kg dry

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzo (a) Pyrene	0.38	0.422	0.473	**22**	61 - 124
Benzo (b) Fluoranthene	0.35	0.422	0.567	**51**	55 - 135
Benzo (g,h,i,) Perylene	0.25	0.422	0.399	**35**	61 - 118
Benzo (k) Fluoranthene	0.30	0.422	0.382	**19**	62 - 125
Dibenzo (a,h) Anthracene	0.068	0.422	0.291	53	53 - 131

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QUALITY CONTROL REPORT
MATRIX SPIKE DUPLICATE
USEPA CLP FORM 3

Method: Semi-Volatiles GC/MS USEPA-8270C SOIL
Analyst: Dawn M. Carlstrom Test Date: 09/08/04
Analytical Batch No: 221253
QC Batch No: 98895-103
Sample No: 369217DL
Units: mg/kg dry

Parameter	Sample+Spike Conc #1	Sample+Spike Conc #2	Relative % Diff.	Control Limits
Benzo (a) Pyrene	0.585	0.473	**21**	0 - 20
Benzo (b) Fluoranthene	0.603	0.567	6	0 - 27
Benzo (g,h,i,) Perylene	0.464	0.399	**15**	0 - 14
Benzo (k) Fluoranthene	0.423	0.382	10	0 - 36
Dibenzo (a,h) Anthracene	0.317	0.291	9	0 - 19

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APPENDIX E

SVOC LCS EXCEEDANCE SUMMARY FORMS

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36620- 1

QUALITY CONTROL REPORT
LABORATORY FORTIFIED BLANK

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom
Test Date: 07/07/04
Analytical Batch No: 218549
QC Batch No: 97201-102
Units: mg/kg dry

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Bis (2-Chloroethyl) Ether	0.333	0.361	108	17 - 123
Bis (2-Chloroisopropyl)-Ether	0.333	0.383	115	32 - 109
Bis (2-ethylhexyl)-Phthalate	0.333	0.357	107	47 - 123
Bis (2-Chloroethoxy) Methane	0.333	0.326	98	42 - 110
Butyl Benzyl Phthalate	0.333	0.362	109	44 - 124
Carbazole	0.333	0.248	74	72 - 121
Chrysene	0.333	0.374	112	53 - 129
Dibenzo (a,h) Anthracene	0.333	0.302	91	39 - 123
Dibenzofuran	0.333	0.329	99	46 - 115
Diethylphthalate	0.333	0.364	109	52 - 111
Dimethylphthalate	0.333	0.360	108	44 - 116
Di-n-Butylphthalate	0.333	0.346	104	45 - 132
Di-n-Octylphthalate	0.333	0.359	108	37 - 138
Fluoranthene	0.333	0.352	106	43 - 123
Fluorene	0.333	0.372	112	43 - 116
Hexachlorobenzene	0.333	0.344	103	38 - 122
Hexachlorobutadiene	0.333	0.305	92	32 - 127
Hexachlorocyclopentadiene	0.333	0.340	102	10 - 113
Hexachloroethane	0.333	0.350	105	42 - 120
Indeno (1,2,3-cd) Pyrene	0.333	0.373	112	37 - 123
Isophorone	0.333	0.287	86	52 - 132
Naphthalene	0.333	0.332	100	57 - 131
Nitrobenzene	0.333	0.329	99	43 - 115
N-Nitrosodi-n-Propylamine	0.333	0.367	110	43 - 126
N-Nitroso-di-Phenylamine	0.333	0.299	90	28 - 141
Pentachlorophenol	0.333	0.170	51	25 - 133
Phenanthrene	0.333	0.359	108	45 - 122
Phenol	0.333	0.368	111	54 - 138
Pyrene	0.333	0.385	116	44 - 123

00187

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TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
LABORATORY FORTIFIED BLANK

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom
Test Date: 07/07/04
Analytical Batch No: 218549
QC Batch No: 97201-102
Units: mg/kg dry

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Bis (2-Chloroethyl) Ether	0.333	0.350	105	17 - 123
Bis (2-Chloroisopropyl)-Ether	0.333	0.370	111	32 - 109
Bis (2-ethylhexyl)-Phthalate	0.333	0.363	109	47 - 123
Bis (2-Chloroethoxy)-Methane	0.333	0.334	100	42 - 110
Butyl Benzyl Phthalate	0.333	0.368	111	44 - 124
Carbazole	0.333	0.267	80	72 - 121
Chrysene	0.333	0.356	107	53 - 129
Dibenzo (a,h) Anthracene	0.333	0.318	95	39 - 123
Dibenzofuran	0.333	0.335	101	46 - 115
Diethylphthalate	0.333	0.351	105	52 - 111
Dimethylphthalate	0.333	0.363	109	44 - 116
Di-n-Butylphthalate	0.333	0.344	103	45 - 132
Di-n-Octylphthalate	0.333	0.346	104	37 - 138
Fluoranthene	0.333	0.365	110	43 - 123
Fluorene	0.333	0.377	113	43 - 116
Hexachlorobenzene	0.333	0.339	102	38 - 122
Hexachlorobutadiene	0.333	0.306	92	32 - 127
Hexachlorocyclopentadiene	0.333	0.333	100	10 - 113
Hexachloroethane	0.333	0.321	96	42 - 120
Indeno (1,2,3-cd) Pyrene	0.333	0.374	112	37 - 123
Isophorone	0.333	0.290	87	52 - 132
Naphthalene	0.333	0.332	100	57 - 131
Nitrobenzene	0.333	0.334	100	43 - 115
N-Nitrosodi-n-Propylamine	0.333	0.357	107	43 - 126
N-Nitroso-di-Phenylamine	0.333	0.296	89	28 - 141
Pentachlorophenol	0.333	0.182	55	25 - 133
Phenanthrene	0.333	0.346	104	45 - 122
Phenol	0.333	0.348	105	54 - 138
Pyrene	0.333	0.367	110	44 - 123

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FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: NORTHEAST ANALYTICAL, INC Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 04060132USACE

Matrix Spike - US ARMY COR Sample No.: AH06258LCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Phenol	3280		2770	84	26- 90
2-Chlorophenol	3280		2580	79	25-102
1,4-Dichlorobenzene	1640		1210	74	20-124
N-Nitrosodinpropylamine	1640		1310	80	1-150
1,2,4-Trichlorobenzene	1640		1350	82	44-142
4-Chloro-3-Methylphenol	1640		2730	166*	22-147
Acenaphthene	1640		1210	74	47-145
4-Nitrophenol	3280		2840	87	11-114
2,4-Dinitrotoluene	1640		1380	84	39-139
Pentachlorophenol	3280		2650	81	17-109
Pyrene	1640		1570	96	26-142

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 11 outside limits

COMMENTS: _____

QUALITY CONTROL REPORT
LABORATORY FORTIFIED BLANK

Method: Semi-Volatiles GC/MS
Analyst: Dawn M. Carlstrom
Analytical Batch No: 221082
QC Batch No: 98895-103
Units: mg/kg dry

Test Date: 09/07/04

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Bis (2-Chloroethyl) Ether	0.333	0.305	92	17 - 123
Bis (2-Chloroisopropyl)-Ether	0.333	0.358	108	32 - 109
Bis (2-ethylhexyl)-Phthalate	0.333	0.402	121	47 - 123
Bis (2-Chloroethoxy)-Methane	0.333	0.310	93	42 - 118
Butyl Benzyl Phthalate	0.333	0.383	115	44 - 124
Carbazole	0.333	0.297	89	72 - 121
Chrysene	0.333	0.339	102	53 - 129
Dibenzo (a,h) Anthracene	0.333	0.389	117	39 - 123
Dibenzofuran	0.333	0.363	109	46 - 115
Diethylphthalate	0.333	0.383	**115**	52 - 111
Dimethylphthalate	0.333	0.388	**117**	44 - 116
Di-n-Butylphthalate	0.333	0.313	94	45 - 132
Di-n-Octylphthalate	0.333	0.354	106	37 - 138
Fluoranthene	0.333	0.304	91	43 - 123
Fluorene	0.333	0.358	108	43 - 116
Hexachlorobenzene	0.333	0.326	98	38 - 122
Hexachlorobutadiene	0.333	0.314	94	32 - 127
Hexachlorocyclopentadiene	0.333	0.337	101	10 - 113
Hexachloroethane	0.333	0.331	99	42 - 120
Indeno (1,2,3-cd) Pyrene	0.333	0.346	104	37 - 123
Isophorone	0.333	0.342	103	52 - 132
Naphthalene	0.333	0.305	92	57 - 131
Nitrobenzene	0.333	0.350	105	43 - 115
N-Nitrosodi-n-Propylamine	0.333	0.366	110	43 - 126
N-Nitroso-di-Phenylamine	0.333	0.344	103	28 - 141
Pentachlorophenol	0.333	0.267	80	25 - 133
Phenanthrene	0.333	0.302	91	45 - 122
Phenol	0.333	0.338	102	54 - 138
Pyrene	0.333	0.352	106	44 - 123

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APPENDIX F

METALS CALIBRATION EXCEEDANCE SUMMARY FORMS

USEPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: Northeast Analytical Lab Contract: FORT TOTTEN

Lab Code: 11078 Case No.: _____ SAS No.: _____ SDG No.: 04060132

AA CRDL Standard Source: Leeman

ICP CRDL Standard Source: AccuStd

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum				400.0	443.77	110.9	502.66	125.7
Antimony				120.0	111.45	92.9	110.38	92.0
Arsenic				80.0	69.95	87.4	71.68	89.6
Barium				400.0	399.02	99.8	396.18	99.0
Beryllium				10.0	9.99	99.9	10.05	100.5
Lead				40.0	40.40	101.0	40.31	100.8
Calcium				0.0	4859.05	97.2	4859.74	97.2
Cadmium				40.0	38.95	97.4	38.89	97.2
Cobalt				100.0	96.56	96.6	96.97	97.0
Chromium				20.0	19.54	97.7	19.34	96.7
Copper				50.0	46.22	92.4	46.09	92.2
Iron				200.0	233.56	116.8	266.74	133.
Magnesium				5000.0	5069.90	101.4	5053.64	101.1
Manganese				30.0	38.80	129.3	45.30	151.0
Mercury	0.200	0.243	121.5					
Sodium				5000.0	4212.13	84.2	4242.11	84.8
Nickel				80.0	79.24	99.0	78.93	98.7
Potassium				5000.0	4571.95	91.4	4554.25	91.1
Selenium				40.0	32.84	82.1	42.12	105.3
Silver				20.0	43.01	215.0	43.11	215.6
Thallium				80.0	78.38	98.0	75.65	94.6
Vanadium				100.0	99.05	99.0	98.06	98.1
Zinc				40.0	40.48	101.2	40.30	100.8

Control Limits: no limits have been established by EPA at this time

USEPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: Northeast Analytical Lab Contract: FORT TOTTEN

Lab Code: 11078 Case No.: _____ SAS No.: _____ SDG No.: 04060132

AA CRDL Standard Source: Leeman

ICP CRDL Standard Source: AccuStd

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Mercury	0.200	0.244	122.0					

Control Limits: no limits have been established by EPA at this time

APPENDIX G

METALS METHOD BLANK EXCEEDANCE SUMMARY FORMS

TriMatrix
Laboratories, Inc.

QUALITY CONTROL REPORT
BLANKS
USEPA CLP FORM 3

SDG No. 36620 -1 Parameter Aluminum, Total
Instrument ID 101

Batch Number	Blank Type		Amount Found	Quant. Limit	Reference Citation	Matrix	Units
218630	BLK	1	<100 U	100	EPA-200.7/6010B	WATER	ug/L
218630	ICB	1	<100	100	EPA-200.7/6010B	WATER	ug/L
218630	CCB	1	<100	100	EPA-200.7/6010B	WATER	ug/L
218630	CCB	5	<100	100	EPA-200.7/6010B	WATER	ug/L
218630	CCB	6	<100	100	EPA-200.7/6010B	WATER	ug/L
218630	CCB	7	<100	100	EPA-200.7/6010B	WATER	ug/L
218630	CCB	8	<100	100	EPA-200.7/6010B	WATER	ug/L
218630	CCB	9	<100	100	EPA-200.7/6010B	WATER	ug/L
97114-120	MPB	1	<10 U	10	USEPA-6010B	SOIL	mg/kg dry
97123-129	MPB	1	8.44 J	10	USEPA-6010B	SOIL	mg/kg dry
97123-106	MPB	1	<10 U	10	USEPA-6010B	SOIL	mg/kg dry

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TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
BLANKS
USEPA CLP FORM 3

SDG No. 36620 -1 Parameter Calcium, Total
Instrument ID 101

Batch Number	Blank Type	Amount Found	Quant. Limit	Reference Citation	Matrix	Units
218499	BLK 1	<0.50 U	0.50	EPA-200.7/6010B	WATER	mg/L
218499	ICB 1	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218499	CCB 1	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218499	CCB 2	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218499	CCB 3	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218499	CCB 4	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218499	CCB 5	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218499	CCB 6	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	BLK 1	<0.50 U	0.50	EPA-200.7/6010B	WATER	mg/L
218630	ICB 1	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 1	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 7	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 8	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 9	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 10	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 11	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 12	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 13	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
97114-128	MPB 1	<50 U	50	USEPA-6010B	SOIL	mg/kg dry
97123-129	MPB 1	31.6 J	50	USEPA-6010B	SOIL	mg/kg dry
97123-106	MPB 1	23.3 J	50	USEPA-6010B	SOIL	mg/kg dry

000143

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Laboratories, Inc.

QUALITY CONTROL REPORT
BLANKS
USEPA CLP FORM 3

SDG No. 36620 -1 Parameter Iron, Total
Instrument ID 101

Batch Number	Blank Type		Amount Found	Quant. Limit	Reference Citation	Matrix	Units
218630	BLK	1	<25 U	25	EPA-200.7/6010B	WATER	ug/L
218630	ICB	1	<25	25	EPA-200.7/6010B	WATER	ug/L
218630	CCB	1	<25	25	EPA-200.7/6010B	WATER	ug/L
218630	CCB	2	<25	25	EPA-200.7/6010B	WATER	ug/L
218630	CCB	3	<25	25	EPA-200.7/6010B	WATER	ug/L
218630	CCB	4	<25	25	EPA-200.7/6010B	WATER	ug/L
218630	CCB	5	<25	25	EPA-200.7/6010B	WATER	ug/L
218630	CCB	6	<25	25	EPA-200.7/6010B	WATER	ug/L
97114-128	MPB	1	0.810 J	2.5	USEPA-6010B	SOIL	mg/kg dry
97123-106	MPB	1	<2.5 U	2.5	USEPA-6010B	SOIL	mg/kg dry
97123-129	MPB	1	<2.5 U	2.5	USEPA-6010B	SOIL	mg/kg dry

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QUALITY CONTROL REPORT
BLANKS
USEPA CLP FORM 3

SDG No. 36620 -1 Parameter Magnesium, Total
Instrument ID 101

Batch Number	Blank Type	Amount Found	Quant. Limit	Reference Citation	Matrix	Units
218630	BLK 1	<0.50 U	0.50	EPA-200.7/6010B	WATER	mg/L
218630	ICB 1	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 1	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 8	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 9	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 10	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 11	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 12	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
218630	CCB 13	<0.50	0.50	EPA-200.7/6010B	WATER	mg/L
97114-128	MPB 1	<50 U	50	USEPA-6010B	SOIL	mg/kg dry
97123-129	MPB 1	9.36 J	50	USEPA-6010B	SOIL	mg/kg dry
97123-106	MPB 1	<50 U	50	USEPA-6010B	SOIL	mg/kg dry

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QUALITY CONTROL REPORT
BLANKS
USEPA CLP FORM 3

SDG No. 36620 -1 Parameter Silver, Total
Instrument ID 101

Batch Number	Blank Type		Amount Found	Quant. Limit	Reference Citation	Matrix	Units
218499	BLK	1	<10 U	10	EPA-200.7/6010B	WATER	ug/L
218499	ICB	1	<10	10	EPA-200.7/6010B	WATER	ug/L
218499	CCB	1	8.71	10	EPA-200.7/6010B	WATER	ug/L
218499	CCB	3	7.76	10	EPA-200.7/6010B	WATER	ug/L
218499	CCB	4	5.16	10	EPA-200.7/6010B	WATER	ug/L
218499	CCB	5	<10	10	EPA-200.7/6010B	WATER	ug/L
218499	CCB	6	8.74	10	EPA-200.7/6010B	WATER	ug/L
218516	BLK	1	<10 U	10	EPA-200.7/6010B	WATER	ug/L
218516	ICB	1	<10	10	EPA-200.7/6010B	WATER	ug/L
218516	CCB	1	<10	10	EPA-200.7/6010B	WATER	ug/L
218516	CCB	2	<10	10	EPA-200.7/6010B	WATER	ug/L
218516	CCB	3	<10	10	EPA-200.7/6010B	WATER	ug/L
218516	CCB	4	<10	10	EPA-200.7/6010B	WATER	ug/L
97123-106	MPB	1	<1.0 U	1.0	USEPA-6010B	SOIL	mg/kg dry
97123-129	MPB	1	0.505 J	1.0	USEPA-6010B	SOIL	mg/kg dry
97114-128	MPB	1	<1.0 U	1.0	USEPA-6010B	SOIL	mg/kg dry

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TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
BLANKS
USEPA CLP FORM 3

SDG No. 36620 -1 Parameter Antimony, Total
Instrument ID 114

Batch Number	Blank Type	Amount Found	Quant. Limit	Reference Citation	Matrix	Units
218627	BLK 1	<2.0 U	2.0	EPA-200.8/6020	WATER	ug/L
218627	ICB 1	<2.0	2.0	EPA-200.8/6020	WATER	ug/L
218627	CCB 1	<2.0	2.0	EPA-200.8/6020	WATER	ug/L
218627	CCB 2	<2.0	2.0	EPA-200.8/6020	WATER	ug/L
218627	CCB 3	<2.0	2.0	EPA-200.8/6020	WATER	ug/L
218627	CCB 4	<2.0	2.0	EPA-200.8/6020	WATER	ug/L
218627	CCB 5	<2.0	2.0	EPA-200.8/6020	WATER	ug/L
218627	CCB 6	<2.0	2.0	EPA-200.8/6020	WATER	ug/L
97199-129	MPB 1	<0.50 U	0.50	USEPA-6020	SOIL	mg/kg dry
97200-106	MPB 1	<0.50 U	0.50	USEPA-6020	SOIL	mg/kg dry
97200-129	MPB 1	0.116 J	0.50	USEPA-6020	SOIL	mg/kg dry

000993

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TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
BLANKS
USEPA CLP FORM 3

SDG No. 36620 -1 Parameter Zinc, Total
Instrument ID 114

Batch Number	Blank Type	Amount Found	Quant. Limit	Reference Citation	Matrix	Units
218398	BLK 1	<1.0 U	1.0	EPA-200.8/6020	WATER	ug/L
218398	ICB 1	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 1	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 2	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 3	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 4	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 5	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 6	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 7	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 8	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 9	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 10	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 11	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 12	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 13	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218477	BLK 1	<1.0 U	1.0	EPA-200.8/6020	WATER	ug/L
218477	ICB 1	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218477	CCB 1	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218477	CCB 2	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218477	CCB 3	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
97034-128	MPB 1	0.78 J	1.0	USEPA-6020	SOIL	mg/kg dry
97043-129	MPB 1	0.872 J	1.0	USEPA-6020	SOIL	mg/kg dry
97043-106	MPB 1	0.742 J	1.0	USEPA-6020	SOIL	mg/kg dry

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QUALITY CONTROL REPORT
BLANKS
USEPA CLP FORM 3

SDG No. 36620 -1 Parameter Barium, Total
Instrument ID 114

Batch Number	Blank Type	Amount Found	Quant. Limit	Reference Citation	Matrix	Units
218398	BLK 1	<1.0 U	1.0	EPA-200.8/6020	WATER	ug/L
218398	ICB 1	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 1	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 2	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 3	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 4	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 5	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 6	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 7	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 8	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 9	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 10	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 11	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 12	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218398	CCB 13	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218477	BLK 1	<1.0 U	1.0	EPA-200.8/6020	WATER	ug/L
218477	ICB 1	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218477	CCB 1	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218477	CCB 2	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
218477	CCB 3	<1.0	1.0	EPA-200.8/6020	WATER	ug/L
97034-128	MPB 1	<0.50 U	0.50	USEPA-6020	SOIL	mg/kg dry
97043-129	MPB 1	0.224 J	0.50	USEPA-6020	SOIL	mg/kg dry
97043-106	MPB 1	<0.50 U	0.50	USEPA-6020	SOIL	mg/kg dry

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APPENDIX H

METALS INTERFERENCE CHECK SAMPLE EXCEEDANCE SUMMARY FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Northeast Analytical Lab Contract: FORT TOTTEN

Lab Code: 11078 Case No.: _____ SAS No.: _____ SDG No.: 04060132

ICP ID Number: CIROS ICP SPECTRO ICS Source: ULTRA

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	491035	492470.7	98.5	304902	492909.2	98.6
Antimony	0	1000	-45	883.2	88.3	-25	872.3	87.2
Arsenic	0	1000	-6	960.5	96.0	-4	959.1	95.9
Barium	0	1000	2	890.4	89.0	2	891.6	89.2
Beryllium	0	1000	0	942.5	94.2	0	941.6	94.2
Lead	0	1000	-76	823.8	82.4	-91	817.8	81.8
Calcium	0	1000	-76	796.0	79.6	99	796.8	79.7
Cadmium	0	1000	-1	918.3	91.8	-1	917.0	91.7
Cobalt	0	1000	3	919.1	91.9	2	918.8	91.9
Chromium	0	1000	-1	939.8	94.0	-1	933.0	93.3
Copper	0	1000	2	986.1	98.6	-1	987.0	98.7
Iron	300000	300000	274169	273360.9	91.1	152020	272904.7	91.0
Magnesium	0	1000	-4	881.3	88.1	20	880.5	88.0
Manganese	50000	50000	47700	48300.0	96.6	29500	48000.0	96.0
Sodium	0	1000	-4	1248.6	124.9	57	1235.0	123.5
Nickel	0	1000	1	910.7	91.1	1	909.4	90.9
Potassium	0	10000	-5	14955.3	149.6	4	14793.8	147.9
Selenium	0	1000	-12	931.7	93.2	-21	945.8	94.6
Silver	0	1000	0	925.3	92.5	0	920.6	92.1
Thallium	0	1000	-7	926.4	92.6	-12	930.3	93.0
Vanadium	0	1000	-20	927.6	92.8	-10	921.1	92.1
Zinc	0	1000	1	951.7	95.2	3	949.7	95.0

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Northeast Analytical Lab Contract: FORT TOTTEN

Lab Code: 11078 Case No.: _____ SAS No.: _____ SDG No.: 04060132

ICP ID Number: CIROS ICP SPECTRO ICS Source: ULTRA

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	492234	489081.8	97.8	486162	484190.2	96.8
Lead	0	1000	-86	814.8	81.5	-72	828.4	82.8
Calcium	0	1000	-48	805.1	80.5	-47	805.1	80.5
Iron	300000	300000	269997	271331.3	90.4	272861	271100.8	90.4
Magnesium	0	1000	-1	905.2	90.5	-1	895.3	89.5
Manganese	50000	50000	48100	48600.0	97.2	48300	48000.0	96.0
Potassium	0	10000	10	15312.6	153.1	10	15258.9	152.6
Zinc	0	1000	2	993.6	99.4	1	993.9	99.4

APPENDIX I

METALS MS/MSD AND DUPLICATE EXCEEDANCE SUMMARY FORMS

TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
SPIKE SAMPLE RECOVERY
USEPA CLP FORM 5A

SDG No.	36620 -1	Matrix	SOIL
		Lab Sample No.	364042
Sample ID.	Ad2004-SS-6-SH	Units	mg/kg dry

Analyte	Control Limit %R	Spiked Sample Result	Sample Result	Spike Added	%R	M
Aluminum, Total	76 - 118	15760	14500	125	100	P
Aluminum, Total	76 - 118	16060	14500	125	124	P
Beryllium, Total	72 - 134	2.90	0.10	2.5	112	P
Beryllium, Total	72 - 134	3.08	0.10	2.5	119	P
Calcium, Total	70 - 121	4467	2970	1250	120	P
Calcium, Total	70 - 121	4474	2970	1250	120	P
Cobalt, Total	61 - 120	34.2	7.7	25	106	P
Cobalt, Total	61 - 120	32.4	7.7	25	99	P
Copper, Total	65 - 135	63.8	37	25	107	P
Copper, Total	65 - 135	60.3	37	25	93	P
Iron, Total	70 - 123	17350	17900	25	0	P
Iron, Total	70 - 123	19010	17900	25	444	P
Magnesium, Total	81 - 111	4940	3390	1250	**124**	P
Magnesium, Total	81 - 111	4528	3390	1250	91	P
Manganese, Total	56 - 135	447	424	25	92	P
Manganese, Total	56 - 135	443	424	25	76	P
Potassium, Total	56 - 183	2657	967	1250	135	P
Potassium, Total	56 - 183	2529	967	1250	125	P
Silver, Total	67 - 113	27.6	<1	25	110	P
Silver, Total	67 - 113	27.9	<1	25	112	P
Sodium, Total	64 - 144	1594	157	1250	115	P
Sodium, Total	64 - 144	1581	157	1250	114	P

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TriMatrix
Laboratories, Inc.

QUALITY CONTROL REPORT
SPIKE SAMPLE RECOVERY
USEPA CLP FORM 5A

SDG No.	36620 -1	Matrix	SOIL
		Lab Sample No.	364042
Sample ID.	Ad2004-SS-6-SH	Units	mg/kg dry

Analyte	Control Limit %R	Spiked Sample Result	Sample Result	Spike Added	%R	M
Antimony, Total	68 - 126	13.1	0.71	12.5	99	MS
Antimony, Total	68 - 126	13.2	0.71	12.5	100	MS
Arsenic, Total	60 - 141	18.6	6.9	12.5	94	MS
Arsenic, Total	60 - 141	17.8	6.9	12.5	87	MS
Barium, Total	69 - 131	84.0	74	12.5	80	MS
Barium, Total	69 - 131	83.7	74	12.5	78	MS
Cadmium, Total	65 - 134	12.7	0.37	12.5	99	MS
Cadmium, Total	65 - 134	12.3	0.37	12.5	95	MS
Chromium, Total	43 - 148	31.0	20	12.5	88	MS
Chromium, Total	43 - 148	31.4	20	12.5	91	MS
Lead, Total	74 - 132	119.5	108	12.5	92	MS
Lead, Total	74 - 132	114.1	108	12.5	49	MS
Nickel, Total	56 - 137	29.2	17	12.5	98	MS
Nickel, Total	56 - 137	30.1	17	12.5	105	MS
Selenium, Total	51 - 137	11.1	0.52	12.5	85	MS
Selenium, Total	51 - 137	11.5	0.52	12.5	88	MS
Thallium, Total	87 - 121	12.6	0.18	12.5	99	MS
Thallium, Total	87 - 121	12.5	0.18	12.5	99	MS
Vanadium, Total	56 - 141	43.6	35	12.5	69	MS
Vanadium, Total	56 - 141	48.5	35	12.5	108	MS
Zinc, Total	78 - 119	106.1	98	12.5	65	MS
Zinc, Total	78 - 119	103.7	98	12.5	46	MS

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TriMatrix
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QUALITY CONTROL REPORT
SPIKE SAMPLE RECOVERY
USEPA CLP FORM 5A

SDG No.	36620 -1	Matrix	SOIL
		Lab Sample No.	364053
Sample ID.	Ad2004-SS-12-DP	Units	mg/kg dry

Analyte	Control Limit %R	Spiked Sample Result	Sample Result	Spike Added	%R	M
Antimony, Total	68 - 126	20.4	7.2	12.5	106	MS
Antimony, Total	68 - 126	21.8	7.2	12.5	117	MS
Arsenic, Total	60 - 141	18.5	8.1	12.5	83	MS
Arsenic, Total	60 - 141	19.4	8.1	12.5	90	MS
Barium, Total	69 - 131	332.2	337	12.5	0	MS
Barium, Total	69 - 131	346.4	337	12.5	75	MS
Cadmium, Total	65 - 134	13.6	1.3	12.5	98	MS
Cadmium, Total	65 - 134	13.1	1.3	12.5	94	MS
Chromium, Total	43 - 148	43.4	31	12.5	99	MS
Chromium, Total	43 - 148	40.4	31	12.5	75	MS
Lead, Total	74 - 132	878.7	737	12.5	113	MS
Lead, Total	74 - 132	884.2	737	12.5	117	MS
Nickel, Total	56 - 137	32.4	21	12.5	91	MS
Nickel, Total	56 - 137	30.8	21	12.5	78	MS
Selenium, Total	51 - 137	10.6	0.85	12.5	78	MS
Selenium, Total	51 - 137	9.79	0.85	12.5	72	MS
Thallium, Total	87 - 121	10.2	0.14	12.5	**80**	MS
Thallium, Total	87 - 121	9.42	0.14	12.5	**74**	MS
Vanadium, Total	56 - 141	39.9	30	12.5	79	MS
Vanadium, Total	56 - 141	37.5	30	12.5	60	MS
Zinc, Total	78 - 119	498.9	435	12.5	511	MS
Zinc, Total	78 - 119	608.9	435	12.5	139	MS

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5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

Ad2004-SS-13-SHS

Lab Name: Northeast Analytical Lab Contract: FORT TOTTEN

Lab Code: 11078 Case No.: _____ SAS No.: _____ SDG No.: 04060132

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		7211.81		8306.87		24.06	-4551.4		P
Antimony	75 - 125	22.20		4.11		24.06	75.2		P
Arsenic	75 - 125	27.11		8.53		24.06	77.2		P
Barium		371.32		179.63		24.06	796.7		P
Beryllium	75 - 125	21.03		0.45		24.06	85.5		P
Lead		679.99		1016.26		24.06	-1397.6		P
Calcium		44051.12		29748.25		24.06	59446.7		P
Cadmium	75 - 125	21.54		2.03		24.06	81.1		P
Cobalt	75 - 125	26.39		7.39		24.06	79.0		P
Chromium	75 - 125	43.88		30.60		24.06	55.2	N	P
Copper		345.35		287.34		24.06	241.1		P
Iron		27266.32		25111.40		24.06	8956.4		P
Magnesium		24121.07		13968.39		24.06	42197.3		P
Manganese		321.0000		293.0000		24.10	116.4		P
Mercury	75 - 125	1.21		0.57		0.65	90.5		CV
Sodium		205.62		176.84		24.06	119.6		P
Nickel	75 - 125	40.37		24.84		24.06	64.5	N	P
Potassium		1404.53		1203.36		120.32	167.2		P
Selenium	75 - 125	20.08		1.74	U	24.06	83.5		P
Silver	75 - 125	5.74		1.01		6.02	78.6		P
Thallium	75 - 125	22.09		2.89		24.06	79.8		P
Vanadium	75 - 125	47.74		27.52		24.06	84.0		P
Zinc		1054.68		634.83		24.06	1745.0		P

Comments:

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6

DUPLICATES

SAMPLE NO.

Ad2004-SS-13-3HD

Lab Name: Northeast Analytical Lab Contract: FORT TOTTEN

Lab Code: 11078 Case No.: _____ SAS No.: _____ SDG No.: 04060132

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 81.5 % Solids for Duplicate: 81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8306.8740		11660.9100		33.6	*	P
Antimony	1.2	4.1077		3.2264		24.0		P
Arsenic		8.5283		6.6188		25.2	*	P
Barium		179.6265		195.2325		8.3		P
Beryllium	0.1	0.4467		0.4843		8.1		P
Lead		1016.2590		836.3353		19.4		P
Calcium		29748.2500		19797.9500		40.2	*	P
Cadmium		2.0260		2.0688		2.1		P
Cobalt		7.3900		7.2501		1.9		P
Chromium		30.6048		31.7869		3.8		P
Copper		287.3378		301.4387		4.8		P
Iron		25111.4000		24139.9300		3.9		P
Magnesium		13968.3900		7102.7320		65.2	*	P
Manganese		293.0000		304.0000		3.7		P
Mercury		0.5660		0.5021		12.0		CV
Sodium		176.8442		146.8802		18.5		P
Nickel		24.8446		23.5177		5.5		P
Potassium		1203.3570		1257.4880		4.4		P
Selenium		1.7406	U	1.4305	U			P
Silver	0.3	1.0111		0.6206		47.9	*	P
Thallium		2.8903		2.8918		0.1		P
Vanadium		27.5170		30.9855		11.9		P
Zinc		634.8278		701.9690		10.0		P

Ag: difference = 0.3905 < 0.6.

APPENDIX J

METALS SERIAL DILUTION EXCEEDANCE SUMMARY FORMS

TriMatrix Laboratories, Inc.

FORM IX
ICP/MS SERIAL DILUTIONS

Lab Name:	TRIMATRIX	Sample:	364042
Submittal Number:	36620-1	Project Description:	Fort Totten
Date of Analysis:	7/1/2004	Matrix (soil/water):	Soil

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	6.9		7.4		7.2		MS
Barium	74		80		8.1		MS
Cadmium	0.37	J	0.40		8.1		MS
Chromium	20		21		5.0		MS
Lead	108		111		2.8		MS
Nickel	17		19		11.8	E	MS
Selenium	0.52	J	0.71	J	36.5		MS
Thallium	0.18	J	0.20	J	11.1		MS
Vanadium	35		37		5.7		MS
Zinc	98		95		3.1		MS

If the Initial Sample Result is greater than or equal to the Instrument Detection Limit (IDL) but less than 100 times that concentration, then the calculated % Difference does not apply and an "E" value will not appear in the column labeled "Q" even if the value is greater than 10%.

If the Initial Sample Result is less than the IDL, no value will appear in the % Difference column.

If the Initial Sample Result is at least 100 times the IDL and the %Difference is > 10 and then an "E" will be entered in the column labeled "Q".

TriMatrix Laboratories, Inc.

FORM IX
ICP/MS SERIAL DILUTIONS

Lab Name:	TRIMATRIX	Sample:	364053
Submittal Number:	36620-1	Project Description:	Fort Totten
Date of Analysis:	7/1/2004	Matrix (soil/water):	Soil

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	8.1		8.8		8.6		MS
Barium	337		341		1.2		MS
Cadmium	1.3		1.3		0.0		MS
Chromium	31		35		12.9	E	MS
Lead	737		742		0.7		MS
Nickel	21		24		14.3	E	MS
Selenium	0.85	J	1.0		17.6		MS
Thallium	0.14	J	0.16		14.3		MS
Vanadium	30		33		10.0		MS
Zinc	435		422		3.0		MS

If the Initial Sample Result is greater than or equal to the Instrument Detection Limit (IDL) but less than 100 times that concentration, then the calculated % Difference does not apply and an "E" value will not appear in the column labeled "Q" even if the value is greater than 10%.

If the Initial Sample Result is less than the IDL, no value will appear in the % Difference column.

If the Initial Sample Result is at least 100 times the IDL and the %Difference is > 10 and then an "E" will be entered in the column labeled "Q".

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9

ICP SERIAL DILUTIONS

SAMPLE NO.

AH06258TBLK

Lab Name: Northeast Analytical Lab Contract: FORT TOTTEN

Lab Code: 11078 Case No.: _____ SAS No.: _____ SDG No.: 04060132

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	143174.10		125007.50		12.7	E	P
Antimony	70.80		100.00	U	100.0		P
Arsenic	146.99		165.90		12.9		P
Barium	3095.97		3548.35		14.6	E	P
Beryllium	7.70		10.00	U	100.0		P
Lead	17515.86		21082.96		20.4	E	P
Calcium	6051257.00		496425.20		91.8	E	P
Cadmium	34.92		39.88		14.2		P
Cobalt	127.37		150.82		18.4	E	P
Chromium	527.49		602.70		14.3	E	P
Copper	4952.45		5187.23		4.7		P
Iron	432810.50		514287.00		18.8	E	P
Magnesium	196225.30		225235.30		14.8	E	P
Manganese	5060.00		5740.00		13.4	E	P
Sodium	3048.02		2888.28		5.2		P
Nickel	428.21		509.71		19.0	E	P
Potassium	27802.02		25321.83		8.9		P
Selenium	8.64		150.00	U	100.0		P
Silver	17.43		25.00	U	100.0		P
Thallium	49.82		56.32		13.0		P
Vanadium	474.27		531.35		12.0	E	P
Zinc	8579.71		9864.06		15.0	E	P

(Ca, Mg, K Not Used.)

Sample was diluted at 25X, SD not performed

Chemical Quality Assurance Report

Fort Totten Upland Area

Remedial Investigation Phase II

Supplemental Sampling

October 20, 2004

Prepared by
Scott H. Chang, Ph. D.
Project Chemist
HTRW Branch
USACE - Baltimore

§1. Introduction

USACE-Baltimore collected air, soil and groundwater samples at Fort Totten Upland Area for R. I Phase II, Supplemental Sampling on 21 June , 5 August, 26 August, and 30 August 2004:

Primary Sample ID	Matrix	Chemical Parameter
Ad2004-Air-Hg-01-H	Air	Mercury
Ad2004-Air-Hg-01-L	Air	Mercury
Ad2004-Air-Hg-02-H	Air	Mercury
Ad2004-Air-Hg-02-L	Air	Mercury
Ad2004-Air-Hg-03-H	Air	Mercury
Ad2004-Air-Hg-03-L	Air	Mercury
Ad2004-Air-Hg-04-H	Air	Mercury
Ad2004-Air-Hg-04-L	Air	Mercury
Ad2004-Air-Hg-05-H	Air	Mercury
Ad2004-Air-Hg-05-L	Air	Mercury
Ad2004-Air-Hg-06-H	Air	Mercury
Ad2004-Air-Hg-06-L	Air	Mercury
Ad2004-Air-Hg-07-H	Air	Mercury
Ad2004-Air-Hg-07-L	Air	Mercury
Ad2004-Air-Hg-08-H	Air	Mercury
Ad2004-Air-Hg-08-L	Air	Mercury
Ad2004-Air-Hg-09-H	Air	Mercury
Ad2004-Air-Hg-09-L	Air	Mercury
Ad2004-Air-Hg-10-H	Air	Mercury
Ad2004-Air-Hg-10-L	Air	Mercury
Ad2004-BKGA-Hg-03-H	Air	Mercury
Ad2004-BKGA-Hg-03-L	Air	Mercury
Ad2004-SS-01-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-01-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-02-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-02-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-03-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-03-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-04-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-04-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-05-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-05-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-06-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-06-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-07-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-07-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-08-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-08-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-09-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-09-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-10-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-10-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-11-SH	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-11-DP	Soil	PAHs/SVOCs & 23 TAL Metals
Ad2004-SS-B11-SH	Soil	PAHs/SVOCs
Ad2004-SS-B11-DP	Soil	PAHs/SVOCs
Ad2004-PS-1	Soil	Mercury

Ad2004-SD-615	Soil	Mercury
Ad2004-GW-MW4R-01	GW	PAHs/SVOCs

Duplicate Sample ID	Matrix	Chemical Parameter
Ad2004-Air-Hg-24-H	Air	Mercury
Ad2004-Air-Hg-24-L	Air	Mercury
Ad2004-SS-25-SH	Soil	PAHs/SVOCs
Ad2004-SS-29-SH	Soil	PAHs/SVOCs
Ad2004-SS-31-SH	Soil	PAHs/SVOCs
Ad2004-SS-31-DP	Soil	PAHs/SVOCs
Ad2004-SS-27-SH	Soil	23 TAL Metals
Ad2004-SS-30-SH	Soil	23 TAL Metals
Ad2004-SS-31-SH	Soil	23 TAL Metals
Ad2004-SS-31-DP	Soil	23 TAL Metals
Ad2004-GW-MW4R-02	GW	PAHs/SVOCs

QA Split Sample ID	Matrix	Chemical Parameter
Ad2004-SS-13-SH	Soil	PAHs/SVOCs
Ad2004-SS-14-SH	Soil	PAHs/SVOCs
Ad2004-SS-13-SH	Soil	23 TAL Metals
Ad2004-SS-13-DP	Soil	23 TAL Metals
Ad2004-GW-MW4R-04	GW	PAHs/SVOCs

§2. Chemical Analysis

The primary Mercury-in-Air samples were analyzed by Adirondack Environmental Services, Inc., Albany, NY. The duplicate Mercury-in-Air samples were analyzed by Galson Laboratories, East Syracuse, NY. The mercury in the sorbent tubes were analyzed by NIOSH Method 6009.

The primary and duplicate soil and groundwater samples were analyzed by TriMatrix Laboratories, Inc., Grand Rapids, MI. The QA Split samples were analyzed by Northeast Analytical, Inc., Schenectady, NY and New York State Laboratory, Albany, NY. The following analytical methods were used to determine the contractions of PAHs/SVOCs and 23 TAL Metals:

EPA Method 8270 - PAHs/SVOCs
EPA Methods 6000 & 7000 Series - 23 TAL Metal

§3. Data Validation, QA/QC and Quality of Chemical Data/Analytical Results

All the chemical data and analytical results were validated by Laboratory Data Consultants (LDC), Carlsbad, CA. LDC provided the results of Data Validation based on the U. S. EPA Protocols and Data Usability Summary Report (DUSR) that meets the requirements of NYSDEC for data certification.

The results of Data Validation indicates (1) that 100% of mercury-in-air results are accepted , (2) that 98% of analytical results of the primary and duplicate samples analyzed by TriMatrix are accepted - only few data of silver and beryllium are rejected and few data of PAHs/SVOCs are changed in the data qualier, and (3) that the results of the QA Split samples analyzed by Northeast Analytical are accepted.

The USACE-Baltimore Project Chemist performed QA/QC checks, determined the quality of chemical data for this project and provided this Chemical Quality Assurance Report (CQAR).

The Relative Precision Difference (RPD) between the concentration of the primary sample and the concentration of the duplicate (or QA Split) sample is used to determine the agreement, acceptability and quality of the sample results that will be used in the environmental and risk assessments of this project.

$$RPD = \text{Absolute} \left| \frac{(Conc.P - Conc.D(\text{or } Conc.S)}{(Conc.P + Conc.D(\text{or } Conc.S)/2} \right| \%$$

where Conc.P = concentraction of the primary sample
Conc.D = concentraction of the duplicate sample
and Conc.S = concentraction of the QA Split sample.

The criterion for rejecting the sample results is that the ratio of the concentration of the primary sample and the concentration of the duplicate (or QA Split) sample is 4 or greater, i. e. the RPD is 120 or greater.

There are 27 detected analytes of PAHs/SVOCs in the soil samples collected from the locations of B01 through B11 and presented in Table Ad2004-Hit-1. The RPDs of PAHs/SVOCs in the primary and duplicate (or QA Split) soil samples are presented in Table RPD-1. There are 13 detected analytes of PAHs/SVOCs in the groundwater samples collected from the new well MW-04R and presented in Table Ad2004-Hit-2. The RPDs of PAHs/SVOCs in the primary and duplicate (or QA Split) groundwater samples are presented in Table RPD-2. The analytical results of 23 TAL Metals in the soil samples collected from the locations of B01 through B11 are presented in Table Ad2004-Hit-1 The RPDs of 23 TAL Metals in the primary and duplicate (or QA Split) soil samples are presented in Table RPD-3.

The RPD results indicate (1) that the analytical results of the primary samples are in good agreement with those of the duplicate samples and (2) that the analytical results of the primary samples that are reported at MDL level are in fair and qualitative agreement with those of the QA Split samples that are reported at the estimated reporting limits.

The results of Data Validation and RPD Statistical Analysis indicate that analytical results of the primary and duplicate samples are of good quality and can be used in the environmental and risk assessments for this project.

		Table Ad2004-Hit-1		
		Fort Totten Upland Area		
	PAHs/SVOCs in Soil Samples			
	EPA Method 8270 - GC/MS/Ion-Trap Detector			
SAMPLE TYPE: Soil				
	SITE	AD2004-B01	AD2004-B01	AD2004-B02
	LabSampleID	Ad2004-SS-01-SH	Ad2004-SS-01-DP	Ad2004-SS-02-SH
	GISKeySAMPLE ID	SS-01-SH	SS-01-XDP	SS-02-SH
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	2 to 12	12 to 24	2 to 12
	RESULT TYPE	Primary	Primary	Primary
2-Methylnaphthalene	(mg/kg)	<0.00664U	<0.00664U	0.011J
Acenaphthene	(mg/kg)	0.006J	<0.00579U	0.011J
Acenaphthylene	(mg/kg)	0.0089J	<0.0067U	0.061
Anthracene	(mg/kg)	0.021J	0.013J	0.048
Benzo(a)anthracene	(mg/kg)	0.13	0.075	0.43
Benzo(a)pyrene	(mg/kg)	0.14J	0.1	0.35
Benzo(b)fluoranthene	(mg/kg)	0.11J	0.073J	0.28
Benzo(ghi)perylene	(mg/kg)	0.11J	0.073J	0.26J
Benzo(k)fluoranthene	(mg/kg)	0.061J {Expert-Q:J}	0.049J {Expert-Q: J}	0.18J
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	0.11J	0.074J	0.058J
Butylbenzylphthalate	(mg/kg)	0.034	0.015J	0.016J
Carbazole	(mg/kg)	0.011J	0.0075J	0.029J
Chrysene	(mg/kg)	0.12J	0.08J	0.38J
Dibenzo(a,h)anthracene	(mg/kg)	0.036JJ	0.026JJ	0.14J
Dibenzofuran	(mg/kg)	<0.00803U	<0.00803U	<0.00803U
Di-n-butyl phthalate	(mg/kg)	0.049	0.06	0.053
Di-n-octyl phthalate	(mg/kg)	0.01J	<0.00691U	<0.00691U
Fluoranthene	(mg/kg)	0.19	0.12	0.59
Fluorene	(mg/kg)	<0.0107U	<0.0107U	0.012J
Indeno(1,2,3-cd)pyrene	(mg/kg)	0.14J	0.072J	0.35J
Naphthalene	(mg/kg)	<0.00589U {Expert-Q: UJ}	<0.00589U	0.011J
o-Dichlorobenzene	(mg/kg)	<0.00369U	<0.00369U	<0.00369U
p-Chloro-m-cresol	(mg/kg)	<0.00551U	0.008J	0.0056J
Pentachlorophenol	(mg/kg)	<0.00552U	<0.00552U	<0.00552U
p-Cresol	(mg/kg)	<0.00537U	<0.00537U	<0.00537U
Phenanthrene	(mg/kg)	0.092	0.064	0.17
Pyrene	(mg/kg)	0.2J	0.13J	0.56J
	<<<Page 1 of Table_Ad2004-Hit-1>>>			

	SITE	AD2004-B02	AD2004-B03	AD2004-B03
	LabSampleID	Ad2004-SS-02-DP	Ad2004-SS-03-SH	Ad2004-SS-03-DP
	GISKeySAMPLE ID	SS-02-XDP	SS-03-SH	SS-03-XDP
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	12 to 24	2 to 12	12 to 24
	RESULT TYPE	Primary	Primary	Primary
2-Methylnaphthalene	(mg/kg)	0.045	<0.00725U	<0.0109U
Acenaphthene	(mg/kg)	0.018J	<0.00631U	<0.00947U
Acenaphthylene	(mg/kg)	0.16	0.012J	<0.011U
Anthracene	(mg/kg)	0.1	0.016J	<0.013U
Benzo(a)anthracene	(mg/kg)	0.61	0.12	<0.0151U
Benzo(a)pyrene	(mg/kg)	0.5	0.12J	<0.015U
Benzo(b)fluoranthene	(mg/kg)	0.45	0.099J	<0.0355U
Benzo(ghi)perylene	(mg/kg)	0.31J	0.097J	<0.014U
Benzo(k)fluoranthene	(mg/kg)	0.23J	0.057J {Expert-Q: J}	<0.0241U {Expert-Q: UJ}
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	0.11J	0.041	0.063J
Butylbenzylphthalate	(mg/kg)	0.031J	0.016J	<0.0124U
Carbazole	(mg/kg)	0.04	0.011J	<0.012U
Chrysene	(mg/kg)	0.51J	0.12J	<0.0124U
Dibenzo(a,h)anthracene	(mg/kg)	0.19J	0.033JJ	<0.0275U
Dibenzofuran	(mg/kg)	0.016J	<0.00876U	<0.0131U
Di-n-butyl phthalate	(mg/kg)	0.091	0.036	0.032J
Di-n-octyl phthalate	(mg/kg)	<0.00628U	<0.00754U	<0.0113U
Fluoranthene	(mg/kg)	1	0.19	0.018J
Fluorene	(mg/kg)	0.036	<0.0116U	<0.0175U
Indeno(1,2,3-cd)pyrene	(mg/kg)	0.44J	0.12J	<0.0179U {Expert-Q: UJ}
Naphthalene	(mg/kg)	0.018J	<0.00642U	<0.00963U
o-Dichlorobenzene	(mg/kg)	<0.00335U	<0.00402U	<0.00603U
p-Chloro-m-cresol	(mg/kg)	0.0066J	0.0068J	<0.00902U
Pentachlorophenol	(mg/kg)	<0.00502U	<0.00602U	<0.00904U
p-Cresol	(mg/kg)	<0.00488U	<0.00586U	<0.00878U
Phenanthrene	(mg/kg)	0.44	0.082	<0.0138U
Pyrene	(mg/kg)	0.79J	0.2J	0.015JJ
	<<<Page 2 of Table_Ad2004-Hit-1>>>			

	SITE	AD2004-B04	AD2004-B04	AD2004-B05
	LabSampleID	Ad2004-SS-04-SH	Ad2004-SS-04-DP	Ad2004-SS-05-SH
	GISKeySAMPLE ID	SS-04-SH	SS-04-XDP	SS-05-SH
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	2 to 12	12 to 24	2 to 12
	RESULT TYPE	Primary	Primary	**Primary**
2-Methylnaphthalene	(mg/kg)	<0.00664U	<0.00725U	0.0091J
Acenaphthene	(mg/kg)	0.018J	<0.00631U	0.014J
Acenaphthylene	(mg/kg)	<0.0067U	<0.00731U	0.27
Anthracene	(mg/kg)	0.059	<0.00868U	0.15
Benzo(a)anthracene	(mg/kg)	0.33	<0.0101U	1
Benzo(a)pyrene	(mg/kg)	0.29J	<0.01U	1.1
Benzo(b)fluoranthene	(mg/kg)	0.28	<0.0236U	0.88
Benzo(ghi)perylene	(mg/kg)	0.23J	<0.00934U	0.74
Benzo(k)fluoranthene	(mg/kg)	0.26J	<0.0161U {Expert-Q: UJ}	0.93
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	0.028J {Expert-Q: J}	0.24	0.057J
Butylbenzylphthalate	(mg/kg)	<0.00756U	<0.00824U	0.012J
Carbazole	(mg/kg)	0.052	<0.00799U	0.061
Chrysene	(mg/kg)	0.32J	<0.00827U {Expert-Q: UJ}	1.1
Dibenzo(a,h)anthracene	(mg/kg)	0.1J	<0.0184U	0.39
Dibenzofuran	(mg/kg)	0.016J	<0.00876U	0.011J
Di-n-butyl phthalate	(mg/kg)	0.028J	0.042J	0.046
Di-n-octyl phthalate	(mg/kg)	<0.00691U	<0.00754U	<0.00691U
Fluoranthene	(mg/kg)	0.76	<0.0109U	1.6
Fluorene	(mg/kg)	0.021J	<0.0116U	0.04
Indeno(1,2,3-cd)pyrene	(mg/kg)	0.24J	<0.0119U {Expert-Q: UJ}	0.82
Naphthalene	(mg/kg)	0.011J	<0.00642U	0.012J
o-Dichlorobenzene	(mg/kg)	<0.00369U	<0.00402U	<0.00369U
p-Chloro-m-cresol	(mg/kg)	<0.00551U	<0.00601U	0.0059J
Pentachlorophenol	(mg/kg)	<0.00552U	<0.00602U	<0.00552U
p-Cresol	(mg/kg)	<0.00537U	<0.00586U	<0.00537U
Phenanthrene	(mg/kg)	0.49	<0.0092U	0.49
Pyrene	(mg/kg)	0.58J	<0.00749U {Expert-Q: UJ}	1.4
	<<<Page 3 of Table_Ad2004-Hit-1>>>			

	SITE	AD2004-B05	AD2004-B05	AD2004-B06
	LabSampleID	Ad2004-SS-25-SH	Ad2004-SS-05-DP	Ad2004-SS-06-SH
	GISKeySAMPLE ID	SS-05-SH	SS-05-XDP	SS-06-SH
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	2 to 12	12 to 24	2 to 12
	RESULT TYPE	**Duplicate**	Primary	Primary
2-Methylnaphthalene	(mg/kg)	0.014J	<0.00725U	0.011J
Acenaphthene	(mg/kg)	0.03J	<0.00631U	0.022J
Acenaphthylene	(mg/kg)	0.34	<0.00731U	0.18
Anthracene	(mg/kg)	0.28	<0.00868U	0.12
Benzo(a)anthracene	(mg/kg)	1.4	0.028J	0.97
Benzo(a)pyrene	(mg/kg)	0.93	0.041J	1.5
Benzo(b)fluoranthene	(mg/kg)	0.71	0.036J	1.2
Benzo(ghi)perylene	(mg/kg)	0.84	0.033J	0.69
Benzo(k)fluoranthene	(mg/kg)	0.42	0.029JJ	0.6
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	0.12	0.039	0.094
Butylbenzylphthalate	(mg/kg)	<0.00756	<0.00824U	0.013J
Carbazole	(mg/kg)	0.08	<0.00799U	0.062
Chrysene	(mg/kg)	1.4	0.033J	0.88
Dibenzo(a,h)anthracene	(mg/kg)	0.25	<0.0184U	0.078
Dibenzofuran	(mg/kg)	0.0085J	<0.00876U	0.016J
Di-n-butyl phthalate	(mg/kg)	0.036	0.068	0.12
Di-n-octyl phthalate	(mg/kg)	<0.00691U	<0.00754U	<0.00691U
Fluoranthene	(mg/kg)	1.8	0.04	1.9
Fluorene	(mg/kg)	0.031J	<0.0116U	0.032J
Indeno(1,2,3-cd)pyrene	(mg/kg)	1	0.024JJ	0.75
Naphthalene	(mg/kg)	0.01J	<0.00642U	0.022J
o-Dichlorobenzene	(mg/kg)	<0.00369U	<0.00402U	<0.00369U
p-Chloro-m-cresol	(mg/kg)	0.0094J	<0.00601U	0.0082J
Pentachlorophenol	(mg/kg)	<0.00552U	<0.00602U	0.022J
p-Cresol	(mg/kg)	<0.00537U	<0.00586U	<0.00537U
Phenanthrene	(mg/kg)	0.51	0.012J	0.5
Pyrene	(mg/kg)	1.8	0.038J	1.8
	<<<Page 4 of Table_Ad2004-Hit-1>>>			

	SITE	AD2004-B06	AD2004-B07	AD2004-B07
	LabSampleID	Ad2004-SS-06-DP	Ad2004-SS-07-SH	Ad2004-SS-07-DP
	GISKeySAMPLE ID	SS-06-XDP	SS-07-SH	SS-07-XDP
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	12 to 24	2 to 12	12 to 24
	RESULT TYPE	Primary	Primary	Primary
2-Methylnaphthalene	(mg/kg)	<0.00664U	<0.00664U	<0.00664U
Acenaphthene	(mg/kg)	<0.00579U	<0.00579U	<0.00579U
Acenaphthylene	(mg/kg)	0.016J	0.017J	0.026J
Anthracene	(mg/kg)	<0.00795U	0.017J	0.016J
Benzo(a)anthracene	(mg/kg)	0.13	0.14	0.33
Benzo(a)pyrene	(mg/kg)	0.15J	0.16J	0.3J
Benzo(b)fluoranthene	(mg/kg)	0.13J	0.093J	0.19J
Benzo(ghi)perylene	(mg/kg)	0.14J	0.12J	0.25J
Benzo(k)fluoranthene	(mg/kg)	0.14J	0.081J	0.18J
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	0.17J	0.062J	0.026J {Expert-Q: J}
Butylbenzylphthalate	(mg/kg)	<0.00756U	0.016J	<0.00756U
Carbazole	(mg/kg)	<0.00733U	0.01J	0.023J
Chrysene	(mg/kg)	0.12J	0.16J	0.29J
Dibenzo(a,h)anthracene	(mg/kg)	0.058J	<0.0168U	0.12J
Dibenzofuran	(mg/kg)	<0.00803U	<0.00803U	<0.00803U
Di-n-butyl phthalate	(mg/kg)	0.16	0.19	0.23
Di-n-octyl phthalate	(mg/kg)	<0.00691U	<0.00691U	<0.00691U
Fluoranthene	(mg/kg)	0.17	0.21	0.44
Fluorene	(mg/kg)	<0.0107U	<0.0107U	<0.0107U
Indeno(1,2,3-cd)pyrene	(mg/kg)	0.12J	0.14J	0.28J
Naphthalene	(mg/kg)	<0.00589U	<0.00589U	0.0072J
o-Dichlorobenzene	(mg/kg)	<0.00369U	<0.00369U	<0.00369U
p-Chloro-m-cresol	(mg/kg)	<0.00551U	<0.00551U	<0.00551U
Pentachlorophenol	(mg/kg)	<0.00552U	<0.00552U	<0.00552U
p-Cresol	(mg/kg)	<0.00537U	<0.00537U	<0.00537U
Phenanthrene	(mg/kg)	0.03J	0.07	0.058
Pyrene	(mg/kg)	0.16J	0.23J	0.44J
	<<<Page 5 of Table_Ad2004-Hit-1>>>			

	SITE	AD2004-B08	AD2004-B08	AD2004-B09
	LabSampleID	Ad2004-SS-08-SH	Ad2004-SS-08-DP	Ad2004-SS-09-SH
	GISKeySAMPLE ID	SS-08-SH	SS-08-XDP	SS-09-SH
	DATE	07/01/2004	07/01/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	2 to 12	12 to 24	2 to 12
	RESULT TYPE	Primary	Primary	**Primary**
2-Methylnaphthalene	(mg/kg)	0.0071J	0.056	<0.00725U
Acenaphthene	(mg/kg)	0.0086J	0.011J	<0.00631U
Acenaphthylene	(mg/kg)	0.029J	0.049	<0.00731U
Anthracene	(mg/kg)	0.031J	0.045	<0.00868U
Benzo(a)anthracene	(mg/kg)	0.2	0.39	0.031J
Benzo(a)pyrene	(mg/kg)	0.19	0.36	0.038J
Benzo(b)fluoranthene	(mg/kg)	0.2	0.36	0.037J
Benzo(ghi)perylene	(mg/kg)	0.14	0.26	<0.00934U
Benzo(k)fluoranthene	(mg/kg)	0.092	0.21	0.019J {Expert-Q: J}
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	0.15	0.089	0.026J {Expert-Q: J}
Butylbenzylphthalate	(mg/kg)	<0.00756U	0.0086J	0.012J
Carbazole	(mg/kg)	0.02J	0.028J	<0.00799U
Chrysene	(mg/kg)	0.22	0.48	0.036J
Dibenzo(a,h)anthracene	(mg/kg)	0.044J	0.084	<0.0184U
Dibenzofuran	(mg/kg)	<0.00803U	0.0084J	<0.00876U
Di-n-butyl phthalate	(mg/kg)	0.056	0.032J	0.34
Di-n-octyl phthalate	(mg/kg)	<0.00691U	<0.00691U	<0.00754U
Fluoranthene	(mg/kg)	0.33	0.75	0.039
Fluorene	(mg/kg)	0.014J	0.028J	<0.0116U
Indeno(1,2,3-cd)pyrene	(mg/kg)	0.14	0.29	<0.0119U {Expert-Q: UJ}
Naphthalene	(mg/kg)	0.0089J	0.08	<0.00642U
o-Dichlorobenzene	(mg/kg)	<0.00369U	<0.00369U	<0.00402U
p-Chloro-m-cresol	(mg/kg)	<0.00551U	<0.00551U	<0.00601U
Pentachlorophenol	(mg/kg)	<0.00552U	<0.00552U	<0.00602U
p-Cresol	(mg/kg)	<0.00537U	<0.00537U	<0.00586U
Phenanthrene	(mg/kg)	0.18	0.45	0.021J
Pyrene	(mg/kg)	0.38	0.76	0.04J
	<<<Page 6 of Table_Ad2004-Hit-1>>>			

	SITE	AD2004-B09	AD2004-B09	AD2004-B10
	LabSampleID	Ad2004-SS-29-SH	Ad2004-SS-09-DP	Ad2004-SS-10-SH
	GISKeySAMPLE ID	SS-09-SH	SS-09-XDP	SS-10-SH
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	2 to 12	12 to 24	2 to 12
	RESULT TYPE	**Duplicate**	Primary	Primary
2-Methylnaphthalene	(mg/kg)	<0.00725U	<0.00725U	<0.00725U
Acenaphthene	(mg/kg)	<0.00631U	<0.00631U	<0.00631U
Acenaphthylene	(mg/kg)	<0.00731U	<0.00731U	0.016J
Anthracene	(mg/kg)	<0.00868U	<0.00868U	0.012J
Benzo(a)anthracene	(mg/kg)	0.021J	<0.0101U	0.089
Benzo(a)pyrene	(mg/kg)	0.023J	<0.01U	0.14
Benzo(b)fluoranthene	(mg/kg)	0.024J	<0.0236U	0.073
Benzo(ghi)perylene	(mg/kg)	<0.00934U	<0.00934U	0.069J
Benzo(k)fluoranthene	(mg/kg)	<0.0161U	<0.0161U {Expert-Q: UJ}	0.068J
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	0.026J	0.021JJ	0.053J
Butylbenzylphthalate	(mg/kg)	<0.00824U	<0.00824U	0.024J
Carbazole	(mg/kg)	<0.00799U	<0.00799U	<0.00799U
Chrysene	(mg/kg)	0.019J	<0.00827U {Expert-Q: UJ}	0.12J
Dibenzo(a,h)anthracene	(mg/kg)	<0.0184U	<0.0184U	<0.0184U
Dibenzofuran	(mg/kg)	<0.00876U	<0.00876U	<0.00876U
Di-n-butyl phthalate	(mg/kg)	0.033	0.32	0.34
Di-n-octyl phthalate	(mg/kg)	<0.00754U	<0.00754U	<0.00754U
Fluoranthene	(mg/kg)	0.033	<0.0109U	0.16
Fluorene	(mg/kg)	<0.0116U	<0.0116U	<0.0116U
Indeno(1,2,3-cd)pyrene	(mg/kg)	<0.0119U	<0.0119U {Expert-Q: UJ}	0.086J
Naphthalene	(mg/kg)	<0.00642U	<0.00642U	<0.00642U
o-Dichlorobenzene	(mg/kg)	<0.00402U	<0.00402U	<0.00402U
p-Chloro-m-cresol	(mg/kg)	0.0096J	<0.00601U	0.0067J
Pentachlorophenol	(mg/kg)	<0.00602U	<0.00602U	<0.00602U
p-Cresol	(mg/kg)	<0.00586U	<0.00586U	<0.00586U
Phenanthrene	(mg/kg)	0.016J	<0.0092U	0.056
Pyrene	(mg/kg)	0.038	0.0095JJ	0.16J
	<<< Page 7 of Table_Ad2004-Hit-1>>>			

	SITE	AD2004-B10	AD2004-B11	AD2004-B11
	LabSampleID	Ad2004-SS-10-DP	Ad2004-SS-11-SH	Ad2004-SS-31-SH
	GISKeySAMPLE ID	SS-10-XDP	SS-11-SH	SS-11-SH
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	12 to 24	2 to 12	2 to 12
	RESULT TYPE	Primary	**Primary**	**Duplicate**
2-Methylnaphthalene	(mg/kg)	<0.00725U	0.015J	0.096
Acenaphthene	(mg/kg)	<0.00631U	0.046	0.19
Acenaphthylene	(mg/kg)	<0.00731U	0.024J	0.038
Anthracene	(mg/kg)	<0.00868U	0.16	0.54
Benzo(a)anthracene	(mg/kg)	<0.0101U	0.55	1.4
Benzo(a)pyrene	(mg/kg)	<0.01U	0.37	1.2
Benzo(b)fluoranthene	(mg/kg)	<0.0236U	0.5	0.66 {Expert-Q: JN}
Benzo(ghi)perylene	(mg/kg)	<0.00934U	0.36	0.56 {Expert-Q: JN}
Benzo(k)fluoranthene	(mg/kg)	<0.0161U {Expert-Q: UJ}	0.092J	0.3 {Expert-Q: JN}
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	0.32	0.39	0.34
Butylbenzylphthalate	(mg/kg)	0.023J	0.078	<0.00824U
Carbazole	(mg/kg)	<0.00799U	0.068	0.22
Chrysene	(mg/kg)	<0.00827U {Expert-Q: UJ}	0.54J	1.3
Dibenzo(a,h)anthracene	(mg/kg)	<0.0184U	<0.0184U	0.078 {Expert-Q: NJ}
Dibenzofuran	(mg/kg)	<0.00876U	0.017J	0.13
Di-n-butyl phthalate	(mg/kg)	0.29	0.35	0.066
Di-n-octyl phthalate	(mg/kg)	<0.00754U	<0.00754U	<0.00754U {Expert-Q: UJ}
Fluoranthene	(mg/kg)	<0.0109U	1	2.7
Fluorene	(mg/kg)	<0.0116U	0.045	0.25
Indeno(1,2,3-cd)pyrene	(mg/kg)	<0.0119U {Expert-Q: UJ}	0.39J	1JN
Naphthalene	(mg/kg)	<0.00642U	0.019J	0.13
o-Dichlorobenzene	(mg/kg)	<0.00402U	<0.00402U	<0.00402U
p-Chloro-m-cresol	(mg/kg)	<0.00601U	0.0079J	0.015J
Pentachlorophenol	(mg/kg)	<0.00602U	<0.00602U	<0.00602U
p-Cresol	(mg/kg)	<0.00586U	<0.00586U	<0.00586U
Phenanthrene	(mg/kg)	<0.0092U	0.49	2.5
Pyrene	(mg/kg)	<0.00749U {Expert-Q: UJ}	0.95	2.6
	<<<Page 8 of Table_Ad2004-Hit-1>>>			

	SITE		AD2004-B11	AD2004-B11
	LabSampleID		Ad2004-SS-11-DP	Ad2004-SS-31-DP
	GISKeySAMPLE ID		SS-11-XDP	SS-11-XDP
	DATE		06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)		12 to 24	12 to 24
	RESULT TYPE		**Primary**	**Duplicate**
2-Methylnaphthalene	(mg/kg)		0.02J	0.014J
Acenaphthene	(mg/kg)		0.049	0.057
Acenaphthylene	(mg/kg)		0.024J	0.016J
Anthracene	(mg/kg)		0.13	0.11
Benzo(a)anthracene	(mg/kg)		0.56	0.51
Benzo(a)pyrene	(mg/kg)		0.57	0.35
Benzo(b)fluoranthene	(mg/kg)		0.49	0.26
Benzo(ghi)perylene	(mg/kg)		0.4	0.24
Benzo(k)fluoranthene	(mg/kg)		0.19J	0.22
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)		0.15	0.19
Butylbenzylphthalate	(mg/kg)		<0.00824U	<0.00824U
Carbazole	(mg/kg)		0.053	0.068
Chrysene	(mg/kg)		0.41J	0.38
Dibenzo(a,h)anthracene	(mg/kg)		<0.0184U	0.09
Dibenzofuran	(mg/kg)		0.015	0.016J
Di-n-butyl phthalate	(mg/kg)		0.36	0.035
Di-n-octyl phthalate	(mg/kg)		<0.00754U	<0.00754U
Fluoranthene	(mg/kg)		0.69	0.7
Fluorene	(mg/kg)		0.035	0.04
Indeno(1,2,3-cd)pyrene	(mg/kg)		0.46J	0.31
Naphthalene	(mg/kg)		0.029J	0.022J
o-Dichlorobenzene	(mg/kg)		0.0061J	<0.00402U
p-Chloro-m-cresol	(mg/kg)		0.0078J	0.0092J
Pentachlorophenol	(mg/kg)		<0.00602U	<0.00602U
p-Cresol	(mg/kg)		<0.00586U	0.0078J {Expert-Q: J}
Phenanthrene	(mg/kg)		0.37	0.39
Pyrene	(mg/kg)		0.73J	0.8
	<<<Page 9 of Table_Ad2004-Hit-1>>>			

	SITE	AD2004-B11	AD2004-B11	
	LabSampleID	Ad2004-SS-B11-SH	Ad2004-SS-B11-DP	
	GISKeySAMPLE ID	SS-B11-SH	SS-B11-XDP	
	DATE	08/26/2004	08/26/2004	
CONSTITUENT	DEPTH (ft)	2 to 12	12 to 24	
	RESULT TYPE	Primary	Primary	
2-Methylnaphthalene	(mg/kg)	<0.00982U	0.014J	
Acenaphthene	(mg/kg)	0.029J	0.068J	
Acenaphthylene	(mg/kg)	0.022J	0.014J {Expert-Q: J}	
Anthracene	(mg/kg)	0.11	0.18J	
Benzo(a)anthracene	(mg/kg)	0.34	0.54 {Expert-Q: J}	
Benzo(a)pyrene	(mg/kg)	0.31	0.38 {Expert-Q: J}	
Benzo(b)fluoranthene	(mg/kg)	0.36	0.35 {Expert-Q: J}	
Benzo(ghi)perylene	(mg/kg)	0.2	0.25 {Expert-Q: J}	
Benzo(k)fluoranthene	(mg/kg)	0.23	0.3 {Expert-Q: J}	
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	0.12	0.1J	
Butylbenzylphthalate	(mg/kg)	<0.00209U	<0.00209U	
Carbazole	(mg/kg)	0.038	0.065J	
Chrysene	(mg/kg)	0.31	0.43	
Dibenzo(a,h)anthracene	(mg/kg)	0.055J	0.068J	
Dibenzofuran	(mg/kg)	0.011J	0.03J	
Di-n-butyl phthalate	(mg/kg)	0.26	0.18J	
Di-n-octyl phthalate	(mg/kg)	<0.00125U	<0.00125U	
Fluoranthene	(mg/kg)	0.61	0.87	
Fluorene	(mg/kg)	0.026J	0.062	
Indeno(1,2,3-cd)pyrene	(mg/kg)	0.2	0.28	
Naphthalene	(mg/kg)	0.0099J	0.026J	
o-Dichlorobenzene	(mg/kg)	<0.00436U	<0.00436U	
p-Chloro-m-cresol	(mg/kg)	0.0066J	0.0064J	
Pentachlorophenol	(mg/kg)	<0.00653U	<0.00653U	
p-Cresol	(mg/kg)	<0.00278U	<0.00278U	
Phenanthrene	(mg/kg)	0.3	0.59	
Pyrene	(mg/kg)	0.5	0.86	
Reported at MDL Level	The following qualifier(s) exist: CLP Q: U, J, Expert: U, J ---=Not analyzed			
	<<<Page 10 of Table_Ad2004-Hit-1>>>			

		Table Ad2004-Hit-2		
		Fort Totten Upland Area		
	PAHs/SVOCs in the New Well MW4			
	EPA Method 8270 - GC/MS/Ion-Trap Detector			
SAMPLE TYPE: Watetr				
	SITE	AD2004-MW04-NEW	AD2004-MW04-NEW	
	LabSAMPLE ID	GW-MW4R-01	GW-MW4R-02	
	GISKeySAMPLE ID	GW-MW4R-01	GW-MW4R-01	
CONSTITUENT	DATE	08/04/2004	08/04/2004	
	RESULT TYPE	Primary	Duplicate	
Benzo(a)anthracene	(ug/l)	<0.0397U	0.12J	
Benzo(a)pyrene	(ug/l)	<0.0504U	0.14J	
Benzo(b)fluoranthene	(ug/l)	0.063J	0.2J	
Benzo(ghi)perylene	(ug/l)	<0.0495U	0.062J	
Benzo(k)fluoranthene	(ug/l)	<0.043U	0.08J	
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/l)	1.2J {Expert-Q: <0.171U}	1.3J {Expert-Q: <0.171U}	
Chrysene	(ug/l)	0.038J	0.15J	
Diethyl phthalate	(ug/l)	0.16J {Expert-Q: <0.0709U}	0.21J {Expert-Q: <0.0709U}	
Fluoranthene	(ug/l)	0.1J	0.33J	
Indeno(1,2,3-cd)pyrene	(ug/l)	<0.0417U {Expert-Q: UJ}	0.075J {Expert-Q: J}	
p-Chloro-m-cresol	(ug/l)	0.33J {Expert-Q: <0.0685U}	0.49J {Expert-Q: <0.0685U}	
Phenanthrene	(ug/l)	<0.036U	0.11J	
Pyrene	(ug/l)	0.094J	0.28J	
Reported at the MDL level	The following qualifier(s) exist: CLP Q: U, J, Expert: U, J ---=Not analyzed			

		Table Ad2004-Hit-3		
	Fort Totten Upland Area			
	23 TAL Metals in Soil Samples			
	EPA Methods 6000 & 7000 Series			
SAMPLE TYPE:	Soil			
	SITE	AD2004-615HG	AD2004-615HG	AD2004-B01
	LabSampleID	Ad2004-PS-01	Ad2004-SD-6150	Ad2004-SS-01-SH
	GISKeySAMPLE ID	Ad2004-PS-01	Ad2004-SD-615	SS-01-SH
	DATE	08/05/2004	08/30/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	0.30 to 0.6	15 to 20	2 to 12
	RESULT TYPE	Primary	Primary	Primary
Aluminum	(mg/kg)	---	---	10400
Antimony	(mg/kg)	---	---	0.68
Arsenic	(mg/kg)	---	---	5.3
Barium	(mg/kg)	---	---	56
Beryllium	(mg/kg)	---	---	0.046J
Cadmium	(mg/kg)	---	---	0.99
Calcium	(mg/kg)	---	---	3660
Chromium	(mg/kg)	---	---	20
Cobalt	(mg/kg)	---	---	6.7
Copper	(mg/kg)	---	---	38
Iron	(mg/kg)	---	---	18400
Lead	(mg/kg)	---	---	286
Magnesium	(mg/kg)	---	---	3110
Manganese	(mg/kg)	---	---	317
Mercury	(mg/kg)	6.25	10	0.56
Nickel	(mg/kg)	---	---	17J
Potassium	(mg/kg)	---	---	1390J
Selenium	(mg/kg)	---	---	0.37J
Silver	(mg/kg)	---	---	<0.362U
Sodium	(mg/kg)	---	---	43J
Thallium	(mg/kg)	---	---	0.14J
Vanadium	(mg/kg)	---	---	26J
Zinc	(mg/kg)	---	---	173
		Page 1 of Table_Ad2004-Hit-3		

	SITE	AD2004-B01	AD2004-B02	AD2004-B02
	LabSampleID	Ad2004-SS-01-DP	Ad2004-SS-02-SH	Ad2004-SS-02-DP
	GISKeySAMPLE ID	SS-01-XDP	SS-02-SH	SS-02-XDP
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	12 to 24	2 to 12	12 to 24
	RESULT TYPE	Primary	Primary	Primary
Aluminum	(mg/kg)	14800	9820	9680
Antimony	(mg/kg)	0.61	0.59	0.64
Arsenic	(mg/kg)	10	4.2	4.4
Barium	(mg/kg)	80	47	58
Beryllium	(mg/kg)	0.11J	0.087J	0.18J
Cadmium	(mg/kg)	0.84	0.35J	0.46J
Calcium	(mg/kg)	3340	2180	2390
Chromium	(mg/kg)	25	15	16
Cobalt	(mg/kg)	7.5	5.4	6.4
Copper	(mg/kg)	2470	50	63
Iron	(mg/kg)	20100	13300	16200
Lead	(mg/kg)	139	120	176
Magnesium	(mg/kg)	3380	2710	2465
Manganese	(mg/kg)	339	183	228
Mercury	(mg/kg)	0.8	2	2.7
Nickel	(mg/kg)	20J	13J	15J
Potassium	(mg/kg)	1450J	741J	833J
Selenium	(mg/kg)	0.62J	0.37J	0.51J
Silver	(mg/kg)	<0.362U	<0.362U	<0.362U
Sodium	(mg/kg)	68	60	119
Thallium	(mg/kg)	0.19J	0.13J	0.14J
Vanadium	(mg/kg)	36J	26J	27J
Zinc	(mg/kg)	231	91	105
		Page 2 of Table_Ad2004-Hit-3		

	SITE	AD2004-B03	AD2004-B03	AD2004-B04
	LabSampleID	Ad2004-SS-03-SH	Ad2004-SS-03-DP	Ad2004-SS-04-SH
	GISKeySAMPLE ID	SS-03-SH	SS-03-XDP	SS-04-SH
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	2 to 12	12 to 24	2 to 12
	RESULT TYPE	Primary	Primary	Primary
Aluminum	(mg/kg)	15500	14900	15100
Antimony	(mg/kg)	0.7	0.07J	0.63
Arsenic	(mg/kg)	5.4	2.1	3.8
Barium	(mg/kg)	37	46	45
Beryllium	(mg/kg)	0.097J	0.28J	0.13J
Cadmium	(mg/kg)	0.12J	0.07J	0.16J
Calcium	(mg/kg)	430	314	552
Chromium	(mg/kg)	21	19	21
Cobalt	(mg/kg)	6.4	6.7	8.1
Copper	(mg/kg)	32	10	28
Iron	(mg/kg)	17900	17100	21500
Lead	(mg/kg)	51	14	45
Magnesium	(mg/kg)	2730	2690	3500
Manganese	(mg/kg)	306	293	266
Mercury	(mg/kg)	0.52	0.077J	0.24
Nickel	(mg/kg)	17J	16J	18J
Potassium	(mg/kg)	696J	668J	1110J
Selenium	(mg/kg)	0.93J	0.43J	0.43J
Silver	(mg/kg)	<0.362U	<0.362U	<0.362U
Sodium	(mg/kg)	<31.4U	<31.4U	<31.4U
Thallium	(mg/kg)	0.2J	0.13J	0.16J
Vanadium	(mg/kg)	27J	22J	29J
Zinc	(mg/kg)	43	43	55
		Page 3 of Table_Ad2004-Hit-3		

	SITE	AD2004-B04	AD2004-B05	AD2004-B05
	LabSampleID	Ad2004-SS-04-DP	Ad2004-SS-05-SH	Ad2004-SS-05-DP
	GISKeySAMPLE ID	SS-04-XDP	SS-05-SH	SS-05-XDP
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	12 to 24	2 to 12	12 to 24
	RESULT TYPE	Primary	Primary	Primary
Aluminum	(mg/kg)	13600	14000	21300
Antimony	(mg/kg)	0.098J	0.61	0.15J
Arsenic	(mg/kg)	2.4	7.9	2.4
Barium	(mg/kg)	25	105	73
Beryllium	(mg/kg)	0.14J	0.17J	0.11J
Cadmium	(mg/kg)	0.051J	0.49J	0.047J
Calcium	(mg/kg)	440	4090	1430
Chromium	(mg/kg)	16	21	33
Cobalt	(mg/kg)	7.3	7.6	12
Copper	(mg/kg)	15	34	23
Iron	(mg/kg)	22100	17800	30800
Lead	(mg/kg)	8.6	171	14
Magnesium	(mg/kg)	3780	4060	5670
Manganese	(mg/kg)	198	466	485
Mercury	(mg/kg)	<0.0077U	0.38	0.021J
Nickel	(mg/kg)	13J	19J	24J
Potassium	(mg/kg)	1200J	1330J	3330J
Selenium	(mg/kg)	0.094J	0.59J	0.19J
Silver	(mg/kg)	<0.362U	<0.362U	<0.362U
Sodium	(mg/kg)	<31.4U	404	229
Thallium	(mg/kg)	0.092J	0.18J	0.25J
Vanadium	(mg/kg)	24J	32J	40J
Zinc	(mg/kg)	40	144	44
		Page 4 of Table_Ad2004-Hit-3		

	SITE	AD2004-B06	AD2004-B06	AD2004-B07
	LabSampleID	Ad2004-SS-06-SH	Ad2004-SS-06-DP	Ad2004-SS-07-SH
	GISKeySAMPLE ID	SS-06-SH	SS-06-XDP	SS-07-SH
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	2 to 12	12 to 24	2 to 12
	RESULT TYPE	Primary	Primary	Primary
Aluminum	(mg/kg)	14500	18400	13600
Antimony	(mg/kg)	0.71	0.23J	1.1
Arsenic	(mg/kg)	6.9	3	5.1
Barium	(mg/kg)	74	61	95
Beryllium	(mg/kg)	0.1J	0.053J	0.068J
Cadmium	(mg/kg)	0.37J	0.13J	0.32J
Calcium	(mg/kg)	2970	1460	2140
Chromium	(mg/kg)	20	31	19
Cobalt	(mg/kg)	7.7	11	7.9
Copper	(mg/kg)	37	21	35
Iron	(mg/kg)	17900	25900	24900
Lead	(mg/kg)	108	24	222
Magnesium	(mg/kg)	3390	4280	3190
Manganese	(mg/kg)	424	452	566
Mercury	(mg/kg)	0.29	0.068J	0.79
Nickel	(mg/kg)	17J	22J	18J
Potassium	(mg/kg)	967J	1450J	1340J
Selenium	(mg/kg)	0.52J	0.38J	0.49J
Silver	(mg/kg)	<0.362U	<0.362U	<0.362U
Sodium	(mg/kg)	157	32J	<31.4U
Thallium	(mg/kg)	0.18J	0.19J	0.17J
Vanadium	(mg/kg)	35J	37J	29J
Zinc	(mg/kg)	98	49	148
		Page 5 of Table_Ad2004-Hit-3		

	SITE	AD2004-B07	AD2004-B07	AD2004-B08
	LabSampleID	Ad2004-SS-27-SH	Ad2004-SS-07-DP	Ad2004-SS-08-SH
	GISKeySAMPLE ID	SS-07-SH	SS-07-XDP	SS-08-SH
	DATE	06/21/2004	06/21/2004	07/01/2004
CONSTITUENT	DEPTH (ft)	2 to 12	12 to 24	2 to 12
	RESULT TYPE	**Duplicate**	Primary	Primary
Aluminum	(mg/kg)	12500	11700	12400
Antimony	(mg/kg)	1.3	0.68	0.72
Arsenic	(mg/kg)	5.3	3	5.5
Barium	(mg/kg)	94	88	138
Beryllium	(mg/kg)	0.11J	0.13J	0.31J
Cadmium	(mg/kg)	0.33J	0.13J	0.54
Calcium	(mg/kg)	1810	2380	2870
Chromium	(mg/kg)	18J	20	20
Cobalt	(mg/kg)	7.6	8.6	7.9
Copper	(mg/kg)	32	29	37
Iron	(mg/kg)	18700	20900	19300
Lead	(mg/kg)	208	152	305
Magnesium	(mg/kg)	2430	3680	2700
Manganese	(mg/kg)	412	440	471
Mercury	(mg/kg)	0.65	0.27	0.43
Nickel	(mg/kg)	17J	19J	20
Potassium	(mg/kg)	1140	1680J	1230
Selenium	(mg/kg)	0.5J {Expert-Q: J}	0.38J	0.43J
Silver	(mg/kg)	1.7U	<0.362U	0.53J {Expert-Q: <0.45U}
Sodium	(mg/kg)	40J	55	72
Thallium	(mg/kg)	0.17J {Expert-Q: J}	0.17J	0.16J
Vanadium	(mg/kg)	29J	23J	37
Zinc	(mg/kg)	151	71	199
		Page 6 of Table_Ad2004-Hit-3		

	SITE	AD2004-B08	AD2004-B09	AD2004-B09
	LabSampleID	Ad2004-SS-08-DP	Ad2004-SS-09-SH	Ad2004-SS-09-DP
	GISKeySAMPLE ID	SS-08-XDP	SS-09-SH	SS-09-XDP
	DATE	07/01/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	12 to 24	2 to 12	12 to 24
	RESULT TYPE	Primary	Primary	Primary
Aluminum	(mg/kg)	11800	14400	12600
Antimony	(mg/kg)	0.55	0.66	0.34J
Arsenic	(mg/kg)	4.9	3	2.1
Barium	(mg/kg)	120	97	64
Beryllium	(mg/kg)	0.21J	0.46J	0.17J
Cadmium	(mg/kg)	0.44J	0.23J	0.049J
Calcium	(mg/kg)	2600	2320	1010
Chromium	(mg/kg)	21	19	17
Cobalt	(mg/kg)	7.3	6.8	7.6
Copper	(mg/kg)	30	19	9.6
Iron	(mg/kg)	17900	15800	17100
Lead	(mg/kg)	298	93	11
Magnesium	(mg/kg)	2620	2370	2670
Manganese	(mg/kg)	380	617	349
Mercury	(mg/kg)	0.3	0.14	0.028J
Nickel	(mg/kg)	17	17J	14J
Potassium	(mg/kg)	1060	588J	626J
Selenium	(mg/kg)	0.27J	0.52J	0.19J
Silver	(mg/kg)	<0.45U	<0.362U	<0.362U
Sodium	(mg/kg)	70	38J	<31.4U
Thallium	(mg/kg)	0.15J	0.15J	0.1J
Vanadium	(mg/kg)	24	26J	21J
Zinc	(mg/kg)	200	69	29
		Page 7 of Table_Ad2004-Hit-3		

	SITE	AD2004-B10	AD2004-B10	AD2004-B10
	LabSampleID	Ad2004-SS-10-SH	Ad2004-SS-30-SH	Ad2004-SS-10-DP
	GISKeySAMPLE ID	SS-10-SH	SS-10-SH	SS-10-XDP
	DATE	06/21/2004	06/21/2004	06/21/2004
CONSTITUENT	DEPTH (ft)	2 to 12	2 to 12	12 to 24
	RESULT TYPE	Primary	**Duplicate**	Primary
Aluminum	(mg/kg)	12700	12600	17500
Antimony	(mg/kg)	0.73	0.77	0.19J
Arsenic	(mg/kg)	4	4.1	3.9
Barium	(mg/kg)	256	220	56
Beryllium	(mg/kg)	0.19J	0.29J	<0.0267U
Cadmium	(mg/kg)	1.4	1.3	0.06J
Calcium	(mg/kg)	3810	3520	1310
Chromium	(mg/kg)	19	19J	24
Cobalt	(mg/kg)	7.4	7.7	9.9
Copper	(mg/kg)	36	38	15
Iron	(mg/kg)	16700	18200	29200
Lead	(mg/kg)	1540	642	26
Magnesium	(mg/kg)	2960	3450	3370
Manganese	(mg/kg)	536	618	349
Mercury	(mg/kg)	2.4	2.5	0.097J
Nickel	(mg/kg)	24J	21J	17J
Potassium	(mg/kg)	1310J	1230	1510J
Selenium	(mg/kg)	0.67J	0.7J {Expert-Q: J}	0.14J
Silver	(mg/kg)	<0.362U	<0.45U	<0.362U
Sodium	(mg/kg)	80	101	<31.4U
Thallium	(mg/kg)	0.14J	0.17J {Expert-Q: J}	0.13J
Vanadium	(mg/kg)	24J	23J	31J
Zinc	(mg/kg)	480	470	50
		Page 8 of Table_Ad2004-Hit-3		

	SITE	AD2004-B11	AD2004-B11	
	LabSampleID	Ad2004-SS-11-SH	Ad2004-SS-31-SH	
	GISKeySAMPLE ID	SS-11-SH	SS-11-SH	
	DATE	06/21/2004	06/21/2004	
CONSTITUENT	DEPTH (ft)	2 to 12	2 to 12	
	RESULT TYPE	Primary	**Duplicate**	
Aluminum	(mg/kg)	8460	8190	
Antimony	(mg/kg)	6.3	2.6	
Arsenic	(mg/kg)	6.7	6.8	
Barium	(mg/kg)	449	268	
Beryllium	(mg/kg)	<0.0267U	<0.0267U	
Cadmium	(mg/kg)	2.4	2.6	
Calcium	(mg/kg)	13100	13700	
Chromium	(mg/kg)	30	32J	
Cobalt	(mg/kg)	8.2	7.8	
Copper	(mg/kg)	346	315	
Iron	(mg/kg)	28600	25000	
Lead	(mg/kg)	1160	1090	
Magnesium	(mg/kg)	4280	4640	
Manganese	(mg/kg)	379	350	
Mercury	(mg/kg)	0.57	0.53	
Nickel	(mg/kg)	26J	25J	
Potassium	(mg/kg)	1380J	1260	
Selenium	(mg/kg)	0.7J	0.75J {Expert-Q: J}	
Silver	(mg/kg)	0.66J	2.7U	
Sodium	(mg/kg)	111	121	
Thallium	(mg/kg)	0.15J	0.14J {Expert-Q: J}	
Vanadium	(mg/kg)	30J	30J	
Zinc	(mg/kg)	564	581	
		Page 9 of Table_Ad2004-Hit-3		

	SITE	AD2004-B11	AD2004-B11	
	LabSampleID	Ad2004-SS-11-DP	Ad2004-SS-31-DP	
	GISKeySAMPLE ID	SS-11-XDP	SS-11-XDP	
	DATE	06/21/2004	06/21/2004	
CONSTITUENT	DEPTH (ft)	12 to 24	12 to 24	
	RESULT TYPE	Primary	**Duplicate**	
Aluminum	(mg/kg)	8970	8900	
Antimony	(mg/kg)	8.9	7.2	
Arsenic	(mg/kg)	8.3	8.1	
Barium	(mg/kg)	358	337	
Beryllium	(mg/kg)	0.095J	0.26J	
Cadmium	(mg/kg)	1.3	1.3	
Calcium	(mg/kg)	12300	14100	
Chromium	(mg/kg)	32	31J	
Cobalt	(mg/kg)	9.7	9.2	
Copper	(mg/kg)	271	178	
Iron	(mg/kg)	34100	31500	
Lead	(mg/kg)	1060	737	
Magnesium	(mg/kg)	6640	7620	
Manganese	(mg/kg)	296	302	
Mercury	(mg/kg)	1	0.86	
Nickel	(mg/kg)	21J	21J	
Potassium	(mg/kg)	1040J	912	
Selenium	(mg/kg)	0.86J	0.85J {Expert-Q: J}	
Silver	(mg/kg)	0.39J	1.5U	
Sodium	(mg/kg)	195	166	
Thallium	(mg/kg)	0.13J	0.14J {Expert-Q: J}	
Vanadium	(mg/kg)	29J	30J	
Zinc	(mg/kg)	478	435	
Reported at MDL	The following qualifier(s) exist: CLP Q: U, J,			
		Expert: U, J, R ---=Not analyzed		
		Page 10 of Table_Ad2004-Hit-3		

Table RPD-3-A: RPD of Metals in Soil Samples Ad2004-SS-07-SH & Ad2004-SS-27-SH from Ad2004-B07					
	SITE	AD2004-B07	AD2004-B07	RPD (%)	Accepted or Rejected
	LabSampleID	Ad2004-SS-07-SH	Ad2004-SS-27-SH		
	GISKeySAMPLE ID	SS-07-SH	SS-07-SH		
	DATE	06/21/2004	06/21/2004		
CONSTITUENT	DEPTH (ft)	0 to 12	0 to 12		
	RESULT TYPE	Primary	**Duplicate**		
Aluminum	(mg/kg)	13600	12500	8.4	Accepted
Antimony	(mg/kg)	1.1	1.3	16.7	Accepted
Arsenic	(mg/kg)	5.1	5.3	3.8	Accepted
Barium	(mg/kg)	95	94	1.1	Accepted
Beryllium	(mg/kg)	0.068J	0.11J	47.2	Accepted
Cadmium	(mg/kg)	0.32J	0.33J	3.1	Accepted
Calcium	(mg/kg)	2140	1810	16.7	Accepted
Chromium	(mg/kg)	19	18J	5.4	Accepted
Cobalt	(mg/kg)	7.9	7.6	3.9	Accepted
Copper	(mg/kg)	35	32	9	Accepted
Iron	(mg/kg)	24900	18700	28.4	Accepted
Lead	(mg/kg)	222	208	6.5	Accepted
Magnesium	(mg/kg)	3190	2430	27	Accepted
Manganese	(mg/kg)	566	412	31.5	Accepted
Mercury	(mg/kg)	0.79	0.65	19.4	Accepted
Nickel	(mg/kg)	18J	17J	5.7	Accepted
Potassium	(mg/kg)	1340J	1140	16.1	Accepted
Selenium	(mg/kg)	0.49J	0.5JJ	2	Accepted
Silver	(mg/kg)	<0.362U	1.7U	129.8	Rejected
Sodium	(mg/kg)	<31.4U	40J	24	Accepted
Thallium	(mg/kg)	0.17J	0.17JJ	0	Accepted
Vanadium	(mg/kg)	29J	29J	0	Accepted
Zinc	(mg/kg)	148	151	2	Accepted

Table RPD-3-B: RPD of Metals in Soil Samples Ad2004-SS-10-SH & Ad2004-SS-30-SH from Ad2004-B10					
	SITE	AD2004-B10	AD2004-B10	RPD (%)	Accepted or Rejected
	LabSampleID	Ad2004-SS-10-SH	Ad2004-SS-30-SH		
	GISKeySAMPLE ID	SS-10-SH	SS-10-SH		
	DATE	06/21/2004	06/21/2004		
CONSTITUENT	DEPTH (ft)	0 to 12	0 to 12		
	RESULT TYPE	Primary	**Duplicate**		
Aluminum	(mg/kg)	12700	12600	0.8	Accepted
Antimony	(mg/kg)	0.73	0.77	5.3	Accepted
Arsenic	(mg/kg)	4	4.1	2.5	Accepted
Barium	(mg/kg)	256	220	15.1	Accepted
Beryllium	(mg/kg)	0.19J	0.29J	41.7	Accepted
Cadmium	(mg/kg)	1.4	1.3	7.4	Accepted
Calcium	(mg/kg)	3810	3520	7.9	Accepted
Chromium	(mg/kg)	19	19J	0	Accepted
Cobalt	(mg/kg)	7.4	7.7	4	Accepted
Copper	(mg/kg)	36	38	5.4	Accepted
Iron	(mg/kg)	16700	18200	8.6	Accepted
Lead	(mg/kg)	1540	642	82.3	Accepted
Magnesium	(mg/kg)	2960	3450	15.3	Accepted
Manganese	(mg/kg)	536	618	14.2	Accepted
Mercury	(mg/kg)	2.4	2.5	4.1	Accepted
Nickel	(mg/kg)	24J	21J	13.3	Accepted
Potassium	(mg/kg)	1310J	1230	6.3	Accepted
Selenium	(mg/kg)	0.67J	0.7J {Expert-Q: J}	4.4	Accepted
Silver	(mg/kg)	<0.362U	<0.45U	21.7	Accepted
Sodium	(mg/kg)	80	101	23.2	Accepted
Thallium	(mg/kg)	0.14J	0.17J {Expert-Q: J}	19.4	Accepted
Vanadium	(mg/kg)	24J	23J	4.3	Accepted
Zinc	(mg/kg)	480	470	2.1	Accepted

Table RPD-3-C: RPD of Metals in Soil Samples Ad2004-SS-11-SH & Ad2004-SS-31-SH from Ad2004-B11					
	SITE	AD2004-B11	AD2004-B11	RPD (%)	Accepted or Rejected
	LabSampleID	Ad2004-SS-11-SH	Ad2004-SS-31-SH		
	GISKeySAMPLE ID	SS-11-SH	SS-11-SH		
	DATE	06/21/2004	06/21/2004		
CONSTITUENT	DEPTH (ft)	0 to 12	0 to 12		
	RESULT TYPE	Primary	**Duplicate**		
Aluminum	(mg/kg)	8460	8190	3.2	Accepted
Antimony	(mg/kg)	6.3	2.6	83.1	Accepted
Arsenic	(mg/kg)	6.7	6.8	1.5	Accepted
Barium	(mg/kg)	449	268	50.5	Accepted
Beryllium	(mg/kg)	<0.0267U	<0.0267U	0	Accepted
Cadmium	(mg/kg)	2.4	2.6	8	Accepted
Calcium	(mg/kg)	13100	13700	4.5	Accepted
Chromium	(mg/kg)	30	32J	6.5	Accepted
Cobalt	(mg/kg)	8.2	7.8	5	Accepted
Copper	(mg/kg)	346	315	9.4	Accepted
Iron	(mg/kg)	28600	25000	13.4	Accepted
Lead	(mg/kg)	1160	1090	6.2	Accepted
Magnesium	(mg/kg)	4280	4640	8	Accepted
Manganese	(mg/kg)	379	350	8	Accepted
Mercury	(mg/kg)	0.57	0.53	7.3	Accepted
Nickel	(mg/kg)	26J	25J	3.9	Accepted
Potassium	(mg/kg)	1380J	1260	9	Accepted
Selenium	(mg/kg)	0.7J	0.75J {Expert-Q: J}	6.7	Accepted
Silver	(mg/kg)	0.66J	2.7U	121.4	Rejected
Sodium	(mg/kg)	111	121	8.6	Accepted
Thallium	(mg/kg)	0.15J	0.14J {Expert-Q: J}	6.9	Accepted
Vanadium	(mg/kg)	30J	30J	0	Accepted
Zinc	(mg/kg)	564	581	3	Accepted

Table RPD-3-D: RPD of Metals in Soil Samples Ad2004-SS-11-SH & Ad2004-SS-13-SH from Ad2004-B11					
	SITE	AD2004-B11	AD2004-B11	RPD (%)	Accepted or Rejected
	LabSampleID	Ad2004-SS-11-SH	Ad2004-SS-13-SH		
	GISKeySAMPLE ID	SS-11-SH	SS-11-SH		
	DATE	06/21/2004	06/21/2004		
CONSTITUENT	DEPTH (ft)	0 to 12	0 to 12		
	RESULT TYPE	Primary	**QA Split Sample**		
Aluminum	(mg/kg)	8460	8310J	1.8	Accepted
Antimony	(mg/kg)	6.3	4.1	42.3	Accepted
Arsenic	(mg/kg)	6.7	8.53	24	Accepted
Barium	(mg/kg)	449	180J	85.5	Accepted
Beryllium	(mg/kg)	<0.0267U	0.447	177.5	Rejected
Cadmium	(mg/kg)	2.4	2.03	16.7	Accepted
Calcium	(mg/kg)	13100	29700J	77.6	Accepted
Chromium	(mg/kg)	30	30.6	2	Accepted
Cobalt	(mg/kg)	8.2	7.4J	10.3	Accepted
Copper	(mg/kg)	346	287	18.6	Accepted
Iron	(mg/kg)	28600	25100J	13	Accepted
Lead	(mg/kg)	1160	1020J	12.8	Accepted
Magnesium	(mg/kg)	4280	14000J	106.3	Accepted
Manganese	(mg/kg)	379	293J	25.6	Accepted
Mercury	(mg/kg)	0.57	0.566	0.7	Accepted
Nickel	(mg/kg)	26J	24.8J	4.7	Accepted
Potassium	(mg/kg)	1380J	1200J	14	Accepted
Selenium	(mg/kg)	0.7J	1.7	83.3	Accepted
Silver	(mg/kg)	0.66J	1R		Accepted
Sodium	(mg/kg)	111	177J	45.8	Accepted
Thallium	(mg/kg)	0.15J	2.9	180	Rejected
Vanadium	(mg/kg)	30J	27.5J	8.7	Accepted
Zinc	(mg/kg)	564	498J	12.4	Accepted

Table RPD-3-E: RPD of Metals in Soil Samples Ad2004-SS-11-DP & Ad2004-SS-31-DP from Ad2004-B07					
	SITE	AD2004-B11	AD2004-B11	RPD (%)	Accepted or Rejected
	LabSampleID	Ad2004-SS-11-DP	Ad2004-SS-31-DP		
	GISKeySAMPLE ID	SS-11-XDP	SS-11-XDP		
	DATE	06/21/2004	06/21/2004		
CONSTITUENT	DEPTH (ft)	12 to 24	12 to 24		
	RESULT TYPE	Primary	**Duplicate**		
Aluminum	(mg/kg)	8970	8900	0.7	Accepted
Antimony	(mg/kg)	8.9	7.2	21.1	Accepted
Arsenic	(mg/kg)	8.3	8.1	2.4	Accepted
Barium	(mg/kg)	358	337	6	Accepted
Beryllium	(mg/kg)	0.095J	0.26J	93	Accepted
Cadmium	(mg/kg)	1.3	1.3	0	Accepted
Calcium	(mg/kg)	12300	14100	13.6	Accepted
Chromium	(mg/kg)	32	31J	3.2	Accepted
Cobalt	(mg/kg)	9.7	9.2	5.3	Accepted
Copper	(mg/kg)	271	178	41.4	Accepted
Iron	(mg/kg)	34100	31500	7.9	Accepted
Lead	(mg/kg)	1060	737	35.9	Accepted
Magnesium	(mg/kg)	6640	7620	13.7	Accepted
Manganese	(mg/kg)	296	302	2	Accepted
Mercury	(mg/kg)	1	0.86	15.1	Accepted
Nickel	(mg/kg)	21J	21J	0	Accepted
Potassium	(mg/kg)	1040J	912	13.1	Accepted
Selenium	(mg/kg)	0.86J	0.85J {Expert-Q: J}	1.2	Accepted
Silver	(mg/kg)	0.39J	1.5U	117.5	Accepted
Sodium	(mg/kg)	195	166	16.1	Accepted
Thallium	(mg/kg)	0.13J	0.14J {Expert-Q: J}	7.4	Accepted
Vanadium	(mg/kg)	29J	30J	3.4	Accepted
Zinc	(mg/kg)	478	435	9.4	Accepted

Table RPD-3-F: RPD of Metals in Soil Samples Ad2004-SS-11-DP & Ad2004-SS-13-DP from Ad2004-B11					
	SITE	AD2004-B11	AD2004-B11	RPD (%)	Accepted or Rejected
	LabSampleID	Ad2004-SS-11-DP	Ad2004-SS-13-DP		
	GISKeySAMPLE ID	SS-11-XDP	SS-11-XDP		
	DATE	06/21/2004	06/21/2004		
CONSTITUENT	DEPTH (ft)	12 to 24	12 to 24		
	RESULT TYPE	Primary	**QA Split Sample**		
Aluminum	(mg/kg)	8970	8990	0.2	Accepted
Antimony	(mg/kg)	8.9	3.12J	96.2	Accepted
Arsenic	(mg/kg)	8.3	9.62	14.7	Accepted
Barium	(mg/kg)	358	341J	4.9	Accepted
Beryllium	(mg/kg)	0.095J	0.657	149.5	Rejected
Cadmium	(mg/kg)	1.3	1.48	12.9	Accepted
Calcium	(mg/kg)	12300	10100J	19.6	Accepted
Chromium	(mg/kg)	32	33.5J	4.6	Accepted
Cobalt	(mg/kg)	9.7	8.46J	13.7	Accepted
Copper	(mg/kg)	271	164	49.2	Accepted
Iron	(mg/kg)	34100	29300J	15.1	Accepted
Lead	(mg/kg)	1060	753J	33.9	Accepted
Magnesium	(mg/kg)	6640	6160J	7.5	Accepted
Manganese	(mg/kg)	296	245J	18.9	Accepted
Mercury	(mg/kg)	1	0.837	17.7	Accepted
Nickel	(mg/kg)	21J	24	13.3	Accepted
Potassium	(mg/kg)	1040J	868	18	Accepted
Selenium	(mg/kg)	0.86J	<1.65U	62.9	Accepted
Silver	(mg/kg)	0.39J	0.638 {Expert-Q: R}		Rejected
Sodium	(mg/kg)	195	183J	6.3	Accepted
Thallium	(mg/kg)	0.13J	2.76	182	Rejected
Vanadium	(mg/kg)	29J	29.3J	1	Accepted
Zinc	(mg/kg)	478	539J	12	Accepted