

Memorandum



TO: Dean Tagliaferro, USEPA
K.C. Mitkevicius, CENAE

cc: Holly Inglis, USEPA

FROM: Tom Czelusniak

DATE: January 3, 2006

PROJECT: Pittsfield SSERC – TO4 W.O. NO.: 20124.001.098
SUBJECT: Summary Report – Surficial Soil Sampling at Allendale School
DCN GE-010306-ADAB

This memorandum has been prepared to serve as a Summary Report for surficial soil sampling conducted at Allendale School on Wednesday November 30, 2005. EPA requested that WESTON collect soil samples in order to assess PCB concentrations at depths of 0 to 3 inches at selected locations on the school grounds. This Report includes descriptions of the following:

- Objectives
- Rationale for selection of sampling locations
- Field sampling procedures and description
- Analytical Results

Objectives

The main objective of the sampling was to assess PCB concentrations in surficial soils on portions of the Allendale School grounds remediated by GE in 1999.

Rationale for Selection of Sampling Locations

Figure 1 depicts the final limits of the 1999 remediation. Figure 2 depicts the nineteen locations of the soil samples collected from the Allendale School property. Sample locations were selected to provide broad coverage of the remediated portions of the Allendale School playground. Sample locations were surveyed by a licensed surveyor.

Field Sampling and Analytical Procedures

Soil sampling was conducted using dedicated disposable and certified pre-cleaned plastic scoops and bowls. A representative of Blasland, Bouck, & Lee (BBL), consultant to General Electric, accompanied WESTON during the sampling and collected a split sample from each location. At each surveyed location, a disposable scoop was used to collect an aliquot of soil from 0 to 3 inches below grade. The soil was placed into a disposable bowl, thoroughly homogenized, then split between a certified pre-cleaned 4 ounce amber sample jar for submission to the EPA laboratory and a 4 ounce sample jar provided by BBL. A duplicate sample was collected from location ASC-4 and sample location ASC-11 was designated as a matrix spike / matrix spike duplicate sample. Following collection, each sample location was marked with a 2" x 2" flush to grade wooden hub stake. All soil samples were labeled and placed on ice for transport to the EPA New England Regional Laboratory in Chelmsford, MA. All activities were conducted in accordance with the November 28, 2005 Work Plan – Surficial Soil Sampling at Allendale School (DCN GE-112805-ACZE).

Analytical Results

Twenty soil samples (19 discreet locations and 1 duplicate) were analyzed for PCBs in accordance with EPA Method 8082. A copy of the chain of custody form and complete analytical results are attached. A PCB concentration of 0.07 parts per million (ppm) was detected in sample ASC-13 and a PCB concentration of 0.06 ppm was detected in sample ASC-18. The remaining 18 samples were reported as non-detect. GE informed EPA that the split samples collected by BBL were not analyzed.

Attachments:

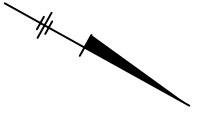
Figure 1

Figure 2

EPA Analytical results and chain of custody form



X: 2018400, 2018401.DWG
 L: 04/11/00, 08/11/00, 08/11/00, 08/11/00, 08/11/00
 P: 5/17/00, 5/17/00, 5/17/00, 5/17/00, 5/17/00
 4/18/00, 5/17/00, 5/17/00, 5/17/00, 5/17/00
 2018402, 2018403, 2018404, 2018405



LEGEND:

- x—x—x— EXISTING CHAIN LINK FENCE
- COAR-46 (1005'-1003') LOCATION (AND ELEVATION) OF COMPOSITE SOIL SAMPLE FOR CONFIRMATION SOIL SAMPLES
- - - - - BORDER BETWEEN EXCAVATION AREAS WHERE SIDEWALLS WERE NOT PRESENT
- AA EXCAVATION SUBAREA
- [1003'] DEPTH OF EXCAVATION (ELEVATION IN FEET ABOVE MEAN SEA LEVEL)
- [Dark Red] APPROXIMATE 2 FOOT EXCAVATION
- [Orange] APPROXIMATE 4 FOOT EXCAVATION
- [Brown] APPROXIMATE 6 FOOT EXCAVATION
- [Yellow] APPROXIMATE 8 FOOT EXCAVATION
- [Light Green] APPROXIMATE 10 FOOT EXCAVATION
- [Bright Green] APPROXIMATE 12 FOOT EXCAVATION

NOTES:

1. BASE MAP AND ALL UTILITIES SUPPLIED BY WHITE ENGINEERING, INC. DRAWING NO. L-5 "UTILITIES PLAN" DATED MARCH 5, 1997.
1. LIMITS OF EXCAVATED AREAS SUPPLIED BY HILL ENGINEERS DRAWING NO. MX-37-1W2.DWG "AS-BUILT EXCAVATION LIMITS" DATED DECEMBER 2, 1999.



**GENERAL ELECTRIC COMPANY, PITTSFIELD MASSACHUSETTS
 FINAL COMPLETION REPORT FOR THE
 ALLENDALE SCHOOL PROPERTY REMOVAL
 ACTION**

**FINAL EXCAVATION DEPTHS
 AND REMOVAL LIMITS**

BBL BLAISLAND, BOUCK & LEE, INC.
 engineers & scientists

FIGURE 3
 REVISED



Symbol	Description	Date	Appr	Symbol	Description	Date	Appr
A	FINAL	11/28/05					

Designed by: DT	Date: 11-28-05	Rev. A
Dwn by: RJJ	Design file no:	
Reviewed by:	SPEC. No.:	
Submitted by:	File name: Plot #pt 11-28-05	
Chief, Arch. Section	Plot scale: AS SHOWN	

DEPARTMENT OF THE ARMY
 CORPS OF ENGINEERS
 CONCORD, MASSACHUSETTS

WESTON SOLUTIONS WOODLOT
 LABORATORIES

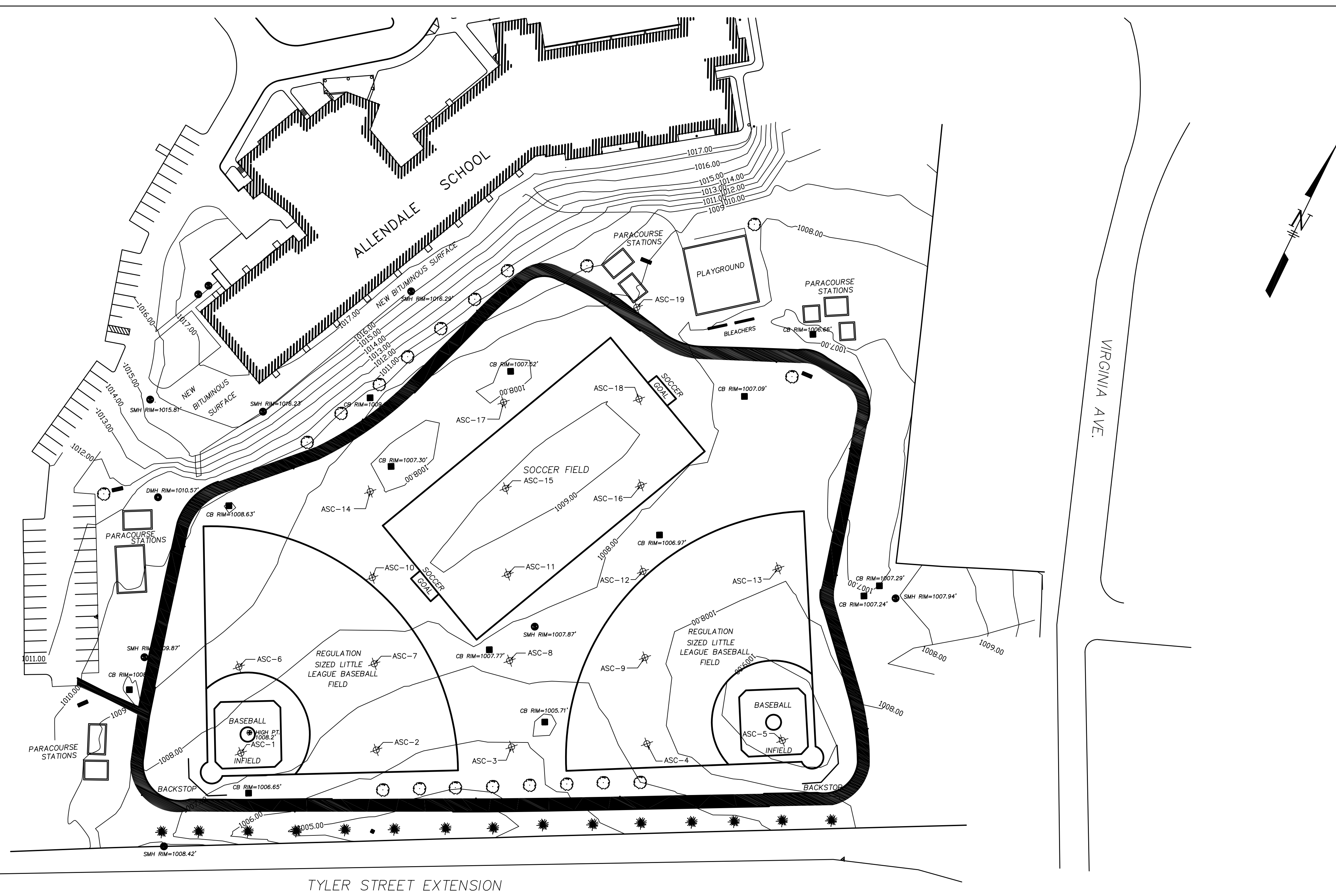
ALLENDALE SCHOOL SURFICIAL SAMPLING
 ENVIRONMENTAL REMEDIATION CONTRACT (SSRC)
 GE/HOUSATONIC RIVER SITE
 PITTSFIELD, MASSACHUSETTS

ALLENDALE SCHOOL FINAL EXCAVATION
 DEPTHS AND REMOVAL LIMITS

Sheet
 reference
 number:
FIG. 1

LEGEND

- + SPOT GRADE
- CATCH BASIN
- DRAIN MANHOLE
- SANITARY MANHOLE
- - - EDGE OF NEW BITUMINOUS SURFACE
- CHAIN LINK FENCE
- ▬ BENCH
- ▬ CRUSHED STONE TRACK
- - - GUARDRAIL
- NEW DECIDUOUS TREE
- ★ NEW CONIFEROUS TREE
- · - · - EDGE OF TREELINE



NOTES:

1. AS BUILT CONDITIONS SHOWN ARE AS OF 11-11-99
2. HORIZONTAL AND VERTICAL CONTROL SUPPLIED BY BLASLAND, BOUCK AND LEE.
3. RESTORATION PLAN PROVIDED BY WHITE ENGINEERING, INC. PLAN ENTITLED "SITE RESTORATION PLAN AT ALLENDALE SCHOOL" AND DATED 6-14-99.



PITTSFIELD				MASSACHUSETTS			
SCALE	REV	DESCRIPTION	DWN	CHK	DATE	DATE	DATE
1"=50'							
DATE	11/18/99						
DWN	KTP	CHK	BP				
APP'D							
COMP. CODE		BOOK NO.		JOB CODE	MX-37AB-1.DWG		
TITLE						NO.	
AS-BUILT RESTORATION PLAN						MX-37-2	



Rev.	Date	Description	Appr.	Symbol	Date	Date
A		FINAL			11/18/99	

Designed by: DT
 Dwn by: RJJ
 Ckd by: TC
 Reviewed by:
 Submitted by:
 Chief, Arch. Section

Date: 11-28-05
 Design file no.:
 SPEC. No.:
 File name: 11-28-05
 Plot scale: AS SHOWN

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 CORPS OF ENGINEERS
 CONCORD, MASSACHUSETTS

WESTON
 SOLUTIONS
 WOODLOT
 CONSULTANTS

ALLENDALE SCHOOL SURFICIAL SAMPLING
 ENVIRONMENTAL REMEDIATION CONTRACT (SSERO)
 GE/HOUSATONIC RIVER SITE
 PITTSFIELD, MASSACHUSETTS
 ALLENDALE SCHOOL AS-BUILT PLAN
 SAMPLE LOCATIONS

Sheet
 reference
 number:
FIG. 2



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

December 06, 2005

Dean Tagliaferro - HIO
U.S. EPA New England Region 1
One Congress Street
Boston, MA 02114 - 2023

Project Number: 05110064
Project: GE Allendale School - Pittsfield, MA
Analysis: PCBs Medium Level in Soils and Sediments
Analyst: Paul Carroll

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, PESTSOIL2.SOP.

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 Series gas chromatograph equipped with dual electron capture detectors. The 30 meter dual capillary column system consists of a J&W DB-5 and J&W DB-1701, both with 0.25mm ID and 0.25 micron film thickness.

The results are reported on a dry weight basis.

Date Samples Received by the Laboratory: 11/30/05

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8335.

Sincerely,

Nora Conlon, Ph.D.
Chemistry Laboratory Services Coordinator

Qualifiers:	RL	Reporting limit
	ND	Not Detected above Reporting limit
	NA	Not Applicable due to high sample dilutions or sample interferences
	J	Estimated value
	E	Estimated value exceeds the calibration range
	L	Estimated value is below the calibration range
	B	Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
	P	The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
	C	The identification has been confirmed by GC/MS.
	R	No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
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GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-1
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/2/05
Dry Weight Extracted: 4.95 grams
Wet Weight Extracted: 6.92 grams

Lab Sample ID: AA57359
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 72%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	71	36 - 131
Decachlorobiphenyl	105	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
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GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-2
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.34 grams
Wet Weight Extracted: 7.00 grams

Lab Sample ID: AA57360
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 62%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	ND	0.12	
37324-23-5	Aroclor-1268	ND	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	56	36 - 131
Decachlorobiphenyl	98	30 - 165

Comments:

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GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-3
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 3.44 grams
Wet Weight Extracted: 7.03 grams

Lab Sample ID: AA57361
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 49%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
53469-21-9	Aroclor-1242	ND	0.15	
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	56	36 - 131
Decachlorobiphenyl	100	30 - 165

Comments:

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GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-4
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.85 grams
Wet Weight Extracted: 7.66 grams

Lab Sample ID: AA57362
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 63%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	57	36 - 131
Decachlorobiphenyl	99	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-5
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 5.13 grams
Wet Weight Extracted: 7.75 grams

Lab Sample ID: AA57363
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 66%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	58	36 - 131
Decachlorobiphenyl	100	30 - 165

Comments:

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GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-6
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 5.11 grams
Wet Weight Extracted: 7.66 grams

Lab Sample ID: AA57364
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 67%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	61	36 - 131
Decachlorobiphenyl	104	30 - 165

Comments:

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GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-7
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 5.25 grams
Wet Weight Extracted: 8.28 grams

Lab Sample ID: AA57365
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 63%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	50	36 - 131
Decachlorobiphenyl	95	30 - 165

Comments:

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GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-8
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 5.23 grams
Wet Weight Extracted: 8.02 grams

Lab Sample ID: AA57366
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 65%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	51	36 - 131
Decachlorobiphenyl	95	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
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GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-9
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.93 grams
Wet Weight Extracted: 8.05 grams

Lab Sample ID: AA57367
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 61%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	57	36 - 131
Decachlorobiphenyl	97	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
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GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-10
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 5.33 grams
Wet Weight Extracted: 8.05 grams

Lab Sample ID: AA57368
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 66%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	46	36 - 131
Decachlorobiphenyl	93	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-11
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.16 grams
Wet Weight Extracted: 7.66 grams

Lab Sample ID: AA57369
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 54%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	ND	0.12	
37324-23-5	Aroclor-1268	ND	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	54	36 - 131
Decachlorobiphenyl	96	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-12
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.07 grams
Wet Weight Extracted: 8.83 grams

Lab Sample ID: AA57370
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 46%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	ND	0.12	
37324-23-5	Aroclor-1268	ND	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	62	36 - 131
Decachlorobiphenyl	102	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-13
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.77 grams
Wet Weight Extracted: 8.31 grams

Lab Sample ID: AA57371
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 57%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	0.07	0.10	L
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	55	36 - 131
Decachlorobiphenyl	97	30 - 165

Comments: L = Estimated value, below the calibration range.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-15
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.83 grams
Wet Weight Extracted: 8.20 grams

Lab Sample ID: AA57372
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 59%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	56	36 - 131
Decachlorobiphenyl	101	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-16
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.66 grams
Wet Weight Extracted: 8.01 grams

Lab Sample ID: AA57373
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 58%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	56	36 - 131
Decachlorobiphenyl	99	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-17
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.17 grams
Wet Weight Extracted: 7.16 grams

Lab Sample ID: AA57374
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 58%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	ND	0.12	
37324-23-5	Aroclor-1268	ND	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	55	36 - 131
Decachlorobiphenyl	101	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-18
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 5.62 grams
Wet Weight Extracted: 8.42 grams

Lab Sample ID: AA57375
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 67%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	0.06	0.09	L
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	56	36 - 131
Decachlorobiphenyl	93	30 - 165

Comments: L = Estimated value, below the calibration range.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-19
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.53 grams
Wet Weight Extracted: 7.40 grams

Lab Sample ID: AA57376
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 61%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	53	36 - 131
Decachlorobiphenyl	97	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA
PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-4 DUP
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.48 grams
Wet Weight Extracted: 7.94 grams

Lab Sample ID: AA57377
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 56%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	53	36 - 131
Decachlorobiphenyl	98	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID: ASC-14
Date of Collection: 11/30/2005
Date of Extraction: 12/1/05
Date of Analysis: 12/3/05
Dry Weight Extracted: 4.75 grams
Wet Weight Extracted: 7.30 grams

Lab Sample ID: AA57378
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 65%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	48	36 - 131
Decachlorobiphenyl	92	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

GE Allendale School - Pittsfield, MA

Laboratory Blank

Client Sample ID: N/A
Date of Collection: N/A
Date of Extraction: 12/1/05
Date of Analysis: 12/2/05
Dry Weight Extracted: 5.09 grams
Wet Weight Extracted: 5.09 grams

Lab Sample ID: N/A
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 100%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	56	36 - 131
Decachlorobiphenyl	95	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

PCB MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

GE Allendale School - Pittsfield, MA

Sample ID: AA57369

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Aroclor-1016	0.73	ND	0.64	87.67	70 - 130
Aroclor-1260	0.73	ND	0.68	93.15	53 - 130

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION mg/Kg	MSD % REC	RPD %	QC LIMITS RPD
Aroclor-1016	0.74	0.67	90.54	3	
Aroclor-1260	0.74	0.71	95.95	3	50

Samples in Batch: AA57359, AA57360, AA57361, AA57362, AA57363, AA57364, AA57365, AA57366, AA57367, AA57368, AA57369, AA57370, AA57371, AA57372, AA57373, AA57374, AA57375, AA57376, AA57377, AA57378

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

LABORATORY DUPLICATE RESULTS

GE Allendale School - Pittsfield, MA

Sample ID: AA57369

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aroclor-1016	ND	ND	ND	50
Aroclor-1221	ND	ND	ND	50
Aroclor-1232	ND	ND	ND	50
Aroclor-1242	ND	ND	ND	50
Aroclor-1248	ND	ND	ND	50
Aroclor-1254	ND	ND	ND	50
Aroclor-1260	ND	ND	ND	50
Aroclor-1262	ND	ND	ND	50
Aroclor-1268	ND	ND	ND	50

COC

Chain of Custody Record



Client EPA W.O. TON 4 RIVER Contact Name Kelly Spittler
 Site Name Housatonic River Project - Contact Phone No. (610) 701-3953
RELEASABLE Turn-around-Time 7 Day
 Laboratory NERL SCHOOL Sampler TOM GRIVINSKI
(410) 472-4224

Analysis Requested by Group by Container
 (number listed for total containers per analysis group)

Lab Batch Number		MS	MSD	Matrix	QC	Total Num of Containers	Matrix	Date Collected	Time Collected	Total PCB
							S	11/30/05	13:10	✓
							S	11/30/05	13:15	✓
							S	11/30/05	13:19	✓
							S	11/30/05	11:50	✓
							S	11/30/05	12:57	✓

Field Remarks/Comments	Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
Results do Dean Tagliavero			11/30/05	13:46			11/30/05	16:27

PJ : 05110064

COC

Chain of Custody Record



Client EPA Kelly Spittler
 Site Name Housatonic River Project - Contact Phone No. (610) 701-3953
 W.O. TO NO. 4 ALEXANDER Burn-around-Time
 Laboratory NERL School Sampler

Analysis Requested by Group by Container
 (number listed for total containers per analysis group)
 Preservative

Lab Batch Number

Lab ID	Sample ID	Matrix		Total Num of Containers	Matrix	Date Collected	Time Collected	Total PCB
		MS	MSD					
	ASC-1			1	S	11-30-05	11:38	✓
	ASC-2			1	A	A	11:45	✓
	ASC-3			1			11:50	✓
	ASC-4			1			11:56	✓
	ASC-5			1			12:01	✓
	ASC-6			1			12:10	✓
	ASC-7			1			12:14	✓
	ASC-8			1			12:19	✓
	ASC-9			1			12:23	✓
	ASC-10			1			12:31	✓
	ASC-11	X	X	3			12:38	✓
	ASC-12			1			12:43	✓
	ASC-13			1			12:49	✓
	ASC-15			1	↓		12:57	✓
	ASC-16			1	S	11-30-05	13:07	✓

Field Remarks/Comments

Results to Dean
 Tagliaterra

Requisitioned by	Received by	Date	Time	Requisitioned by	Received by	Date	Time
ASG	ASG	11/30/05	13:46	ASG	ASG	11/30/05	13:27