



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

Laboratory Report

May 22, 2011

Ted Bazenas - Mail Code OSRR02-2
US EPA New England RI

Project Number: 11040090

Project: A & J Floral - Benton, ME

Analysis: Pesticides and PCBs Medium Level in Soil

Analyst: Paul Carroll

Paul Carroll
5.22.11

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, PESTSOIL3.SOP.

The SOP is based on EPA SW-846 Method 8081A.

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 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: 04/28/2011

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

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.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Daniel N. Boudreau 5/23/2011

Daniel N. Boudreau
Chemistry Team Leader

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.

A = Suspected Aldol condensation product.

N = Tentatively identified compound.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30176
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/10/11
Dry Weight Extracted: 4.41 grams
Wet Weight Extracted: 6.15 grams
Volume Extracted: N/A

Lab Sample ID: AB16941
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 72%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	8.3	5.5	P
72-55-9	4,4'-DDE	ND	5.5	
50-29-3	4,4'-DDT	61	5.5	
309-00-2	Aldrin	ND	5.5	
5103-71-9	Alpha Chlordane	ND	5.5	
319-84-6	Alpha-BHC	ND	5.5	
319-85-7	Beta-BHC	ND	5.5	
319-86-8	Delta-BHC	ND	5.5	
60-57-1	Dieldrin	ND	5.5	
959-98-8	Endosulfan I	ND	5.5	
33212-65-9	Endosulfan II	ND	5.5	
1031-07-8	Endosulfan Sulfate	ND	5.5	
72-20-8	Endrin	ND	5.5	
7421-93-4	Endrin Aldehyde	ND	5.5	
53494-70-5	Endrin Ketone	ND	5.5	
5103-74-2	Gamma Chlordane	ND	5.5	
58-89-9	Gamma-BHC	ND	5.5	
76-44-8	Heptachlor	ND	5.5	
1024-57-3	Heptachlor Epoxide	ND	5.5	
72-43-5	Methoxychlor	ND	5.5	
12674-11-2	Aroclor-1016	ND	110	
11104-28-2	Aroclor-1221	ND	110	
11141-16-5	Aroclor-1232	ND	110	
53469-21-9	Aroclor-1242	ND	110	
12672-29-6	Aroclor-1248	ND	110	
11097-69-1	Aroclor-1254	ND	110	
11096-82-5	Aroclor-1260	ND	110	
11100-14-4	Aroclor-1262	ND	110	
37324-23-5	Aroclor-1268	ND	110	
57-74-9	Technical Chlordane	ND	110	
8001-35-2	Toxaphene	ND	110	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

75
92

QC Ranges

18 - 130
64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30177
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/11/11
Dry Weight Extracted: 5.05 grams
Wet Weight Extracted: 6.34 grams
Volume Extracted: N/A

Lab Sample ID: AB16942
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 80%
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	24	
72-55-9	4,4'-DDE	ND	24	
50-29-3	4,4'-DDT	190	24	
309-00-2	Aldrin	ND	24	
5103-71-9	Alpha Chlordane	ND	24	
319-84-6	Alpha-BHC	ND	24	
319-85-7	Beta-BHC	ND	24	
319-86-8	Delta-BHC	ND	24	
60-57-1	Dieldrin	ND	24	
959-98-8	Endosulfan I	ND	24	
33212-65-9	Endosulfan II	120	24	
1031-07-8	Endosulfan Sulfate	ND	24	
72-20-8	Endrin	ND	24	
7421-93-4	Endrin Aldehyde	ND	24	
53494-70-5	Endrin Ketone	ND	24	
5103-74-2	Gamma Chlordane	ND	24	
58-89-9	Gamma-BHC	ND	24	
76-44-8	Heptachlor	ND	24	
1024-57-3	Heptachlor Epoxide	ND	24	
72-43-5	Methoxychlor	ND	24	
12674-11-2	Aroclor-1016	ND	490	
11104-28-2	Aroclor-1221	ND	490	
11141-16-5	Aroclor-1232	ND	490	
53469-21-9	Aroclor-1242	ND	490	
12672-29-6	Aroclor-1248	ND	490	
11097-69-1	Aroclor-1254	ND	490	
11096-82-5	Aroclor-1260	ND	490	
11100-14-4	Aroclor-1262	ND	490	
37324-23-5	Aroclor-1268	ND	490	
57-74-9	Technical Chlordane	ND	490	
8001-35-2	Toxaphene	ND	490	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	64	18 - 130
Decachlorobiphenyl	84	64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30178
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/11/11
Dry Weight Extracted: 4.36 grams
Wet Weight Extracted: 5.41 grams
Volume Extracted: N/A

Lab Sample ID: AB16943
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 81%
Extract Dilution: 5
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	28	
72-55-9	4,4'-DDE	45	28	
50-29-3	4,4'-DDT	200	28	
309-00-2	Aldrin	ND	28	
5103-71-9	Alpha Chlordane	ND	28	
319-84-6	Alpha-BHC	ND	28	
319-85-7	Beta-BHC	ND	28	
319-86-8	Delta-BHC	ND	28	
60-57-1	Dieldrin	ND	28	
959-98-8	Endosulfan I	ND	28	
33212-65-9	Endosulfan II	ND	28	
1031-07-8	Endosulfan Sulfate	ND	28	
72-20-8	Endrin	ND	28	
7421-93-4	Endrin Aldehyde	ND	28	
53494-70-5	Endrin Ketone	ND	28	
5103-74-2	Gamma Chlordane	ND	28	
58-89-9	Gamma-BHC	32	28	
76-44-8	Heptachlor	ND	28	
1024-57-3	Heptachlor Epoxide	ND	28	
72-43-5	Methoxychlor	ND	28	
12674-11-2	Aroclor-1016	ND	570	
11104-28-2	Aroclor-1221	ND	570	
11141-16-5	Aroclor-1232	ND	570	
53469-21-9	Aroclor-1242	ND	570	
12672-29-6	Aroclor-1248	ND	570	
11097-69-1	Aroclor-1254	ND	570	
11096-82-5	Aroclor-1260	ND	570	
11100-14-4	Aroclor-1262	ND	570	
37324-23-5	Aroclor-1268	ND	570	
57-74-9	Technical Chlordane	ND	570	
8001-35-2	Toxaphene	ND	570	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

87
103

QC Ranges

18 - 130
64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30179
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/11/11
Dry Weight Extracted: 5.05 grams
Wet Weight Extracted: 6.01 grams
Volume Extracted: N/A

Lab Sample ID: AB16944
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 84%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	5.0	
72-55-9	4,4'-DDE	14	5.0	
50-29-3	4,4'-DDT	91	5.0	
309-00-2	Aldrin	ND	5.0	
5103-71-9	Alpha Chlordane	ND	5.0	
319-84-6	Alpha-BHC	ND	5.0	
319-85-7	Beta-BHC	ND	5.0	
319-86-8	Delta-BHC	ND	5.0	
60-57-1	Dieldrin	ND	5.0	
959-98-8	Endosulfan I	ND	5.0	
33212-65-9	Endosulfan II	ND	5.0	
1031-07-8	Endosulfan Sulfate	ND	5.0	
72-20-8	Endrin	ND	5.0	
7421-93-4	Endrin Aldehyde	ND	5.0	
53494-70-5	Endrin Ketone	ND	5.0	
5103-74-2	Gamma Chlordane	ND	5.0	
58-89-9	Gamma-BHC	ND	5.0	
76-44-8	Heptachlor	ND	5.0	
1024-57-3	Heptachlor Epoxide	ND	5.0	
72-43-5	Methoxychlor	ND	5.0	
12674-11-2	Aroclor-1016	ND	100	
11104-28-2	Aroclor-1221	ND	100	
11141-16-5	Aroclor-1232	ND	100	
53469-21-9	Aroclor-1242	ND	100	
12672-29-6	Aroclor-1248	ND	100	
11097-69-1	Aroclor-1254	ND	100	
11096-82-5	Aroclor-1260	ND	100	
11100-14-4	Aroclor-1262	ND	100	
37324-23-5	Aroclor-1268	ND	100	
57-74-9	Technical Chlordane	ND	100	
8001-35-2	Toxaphene	ND	100	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

82
91

QC Ranges

18 - 130
64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30180
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/16/11
Dry Weight Extracted: 3.50 grams
Wet Weight Extracted: 5.83 grams
Volume Extracted: N/A

Lab Sample ID: AB16945
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 60%
Extract Dilution: 500
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	4400	3,600	
72-55-9	4,4'-DDE	ND	3,600	
50-29-3	4,4'-DDT	55000	3,600	
309-00-2	Aldrin	ND	3,600	
5103-71-9	Alpha Chlordane	ND	3,600	
319-84-6	Alpha-BHC	ND	3,600	
319-85-7	Beta-BHC	ND	3,600	
319-86-8	Delta-BHC	ND	3,600	
60-57-1	Dieldrin	ND	3,600	
959-98-8	Endosulfan I	ND	3,600	
33212-65-9	Endosulfan II	ND	3,600	
1031-07-8	Endosulfan Sulfate	ND	3,600	
72-20-8	Endrin	ND	3,600	
7421-93-4	Endrin Aldehyde	ND	3,600	
53494-70-5	Endrin Ketone	ND	3,600	
5103-74-2	Gamma Chlordane	ND	3,600	
58-89-9	Gamma-BHC	ND	3,600	
76-44-8	Heptachlor	ND	3,600	
1024-57-3	Heptachlor Epoxide	ND	3,600	
72-43-5	Methoxychlor	ND	3,600	
12674-11-2	Aroclor-1016	ND	72,000	
11104-28-2	Aroclor-1221	ND	72,000	
11141-16-5	Aroclor-1232	ND	72,000	
53469-21-9	Aroclor-1242	ND	72,000	
12672-29-6	Aroclor-1248	ND	72,000	
11097-69-1	Aroclor-1254	ND	72,000	
11096-82-5	Aroclor-1260	ND	72,000	
11100-14-4	Aroclor-1262	ND	72,000	
37324-23-5	Aroclor-1268	ND	72,000	
57-74-9	Technical Chlordane	ND	72,000	
8001-35-2	Toxaphene	ND	72,000	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

NA
NA

QC Ranges

18 - 130
64 - 122

Comments: NA - Surrogate recoveries were not determined due to the dilution required to quantify target compounds.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30182
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/11/11
Dry Weight Extracted: 4.80 grams
Wet Weight Extracted: 6.24 grams
Volume Extracted: N/A

Lab Sample ID: AB16947
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 77%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	5.0	
72-55-9	4,4'-DDE	ND	5.0	
50-29-3	4,4'-DDT	19	5.0	
309-00-2	Aldrin	ND	5.0	
5103-71-9	Alpha Chlordane	ND	5.0	
319-84-6	Alpha-BHC	ND	5.0	
319-85-7	Beta-BHC	ND	5.0	
319-86-8	Delta-BHC	ND	5.0	
60-57-1	Dieldrin	ND	5.0	
959-98-8	Endosulfan I	ND	5.0	
33212-65-9	Endosulfan II	ND	5.0	
1031-07-8	Endosulfan Sulfate	ND	5.0	
72-20-8	Endrin	ND	5.0	
7421-93-4	Endrin Aldehyde	ND	5.0	
53494-70-5	Endrin Ketone	ND	5.0	
5103-74-2	Gamma Chlordane	ND	5.0	
58-89-9	Gamma-BHC	ND	5.0	
76-44-8	Heptachlor	ND	5.0	
1024-57-3	Heptachlor Epoxide	ND	5.0	
72-43-5	Methoxychlor	ND	5.0	
12674-11-2	Aroclor-1016	ND	100	
11104-28-2	Aroclor-1221	ND	100	
11141-16-5	Aroclor-1232	ND	100	
53469-21-9	Aroclor-1242	ND	100	
12672-29-6	Aroclor-1248	ND	100	
11097-69-1	Aroclor-1254	ND	100	
11096-82-5	Aroclor-1260	ND	100	
11100-14-4	Aroclor-1262	ND	100	
37324-23-5	Aroclor-1268	ND	100	
57-74-9	Technical Chlordane	ND	100	
8001-35-2	Toxaphene	ND	100	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

77
73

QC Ranges

18 - 130
64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30184
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/13/11
Dry Weight Extracted: 3.41 grams
Wet Weight Extracted: 5.71 grams
Volume Extracted: N/A

Lab Sample ID: AB16949
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 60%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	7.5	
72-55-9	4,4'-DDE	ND	7.5	
50-29-3	4,4'-DDT	18	7.5	
309-00-2	Aldrin	ND	7.5	
5103-71-9	Alpha Chlordane	ND	7.5	
319-84-6	Alpha-BHC	ND	7.5	
319-85-7	Beta-BHC	ND	7.5	
319-86-8	Delta-BHC	ND	7.5	
60-57-1	Dieldrin	ND	7.5	
959-98-8	Endosulfan I	ND	7.5	
33212-65-9	Endosulfan II	ND	7.5	
1031-07-8	Endosulfan Sulfate	ND	7.5	
72-20-8	Endrin	ND	7.5	
7421-93-4	Endrin Aldehyde	ND	7.5	
53494-70-5	Endrin Ketone	ND	7.5	
5103-74-2	Gamma Chlordane	ND	7.5	
58-89-9	Gamma-BHC	ND	7.5	
76-44-8	Heptachlor	ND	7.5	
1024-57-3	Heptachlor Epoxide	ND	7.5	
72-43-5	Methoxychlor	ND	7.5	
12674-11-2	Aroclor-1016	ND	150	
11104-28-2	Aroclor-1221	ND	150	
11141-16-5	Aroclor-1232	ND	150	
53469-21-9	Aroclor-1242	ND	150	
12672-29-6	Aroclor-1248	ND	150	
11097-69-1	Aroclor-1254	ND	150	
11096-82-5	Aroclor-1260	ND	150	
11100-14-4	Aroclor-1262	ND	150	
37324-23-5	Aroclor-1268	ND	150	
57-74-9	Technical Chlordane	ND	150	
8001-35-2	Toxaphene	ND	150	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

84
87

QC Ranges

18 - 130
64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30185
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/17/11
Dry Weight Extracted: 3.27 grams
Wet Weight Extracted: 5.33 grams
Volume Extracted: N/A

Lab Sample ID: AB16950
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 61%
Extract Dilution: 2
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	16	
72-55-9	4,4'-DDE	ND	16	
50-29-3	4,4'-DDT	ND	16	
309-00-2	Aldrin	ND	16	
5103-71-9	Alpha Chlordane	26	16	
319-84-6	Alpha-BHC	ND	16	
319-85-7	Beta-BHC	ND	16	
319-86-8	Delta-BHC	ND	16	
60-57-1	Dieldrin	ND	16	
959-98-8	Endosulfan I	ND	16	
33212-65-9	Endosulfan II	ND	16	
1031-07-8	Endosulfan Sulfate	ND	16	
72-20-8	Endrin	ND	16	
7421-93-4	Endrin Aldehyde	ND	16	
53494-70-5	Endrin Ketone	ND	16	
5103-74-2	Gamma Chlordane	ND	16	
58-89-9	Gamma-BHC	ND	16	
76-44-8	Heptachlor	ND	16	
1024-57-3	Heptachlor Epoxide	ND	16	
72-43-5	Methoxychlor	ND	16	
12674-11-2	Aroclor-1016	ND	310	
11104-28-2	Aroclor-1221	ND	310	
11141-16-5	Aroclor-1232	ND	310	
53469-21-9	Aroclor-1242	ND	310	
12672-29-6	Aroclor-1248	ND	310	
11097-69-1	Aroclor-1254	ND	310	
11096-82-5	Aroclor-1260	ND	310	
11100-14-4	Aroclor-1262	ND	310	
37324-23-5	Aroclor-1268	ND	310	
57-74-9	Technical Chlordane	ND	310	
8001-35-2	Toxaphene	ND	310	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

80
97

QC Ranges

18 - 130
64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30190
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/17/11
Dry Weight Extracted: 4.22 grams
Wet Weight Extracted: 5.38 grams
Volume Extracted: N/A

Lab Sample ID: AB16955
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 78%
Extract Dilution: 2
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	12	
72-55-9	4,4'-DDE	14	12	
50-29-3	4,4'-DDT	ND	12	
309-00-2	Aldrin	ND	12	
5103-71-9	Alpha Chlordane	ND	12	
319-84-6	Alpha-BHC	ND	12	
319-85-7	Beta-BHC	ND	12	
319-86-8	Delta-BHC	ND	12	
60-57-1	Dieldrin	ND	12	
959-98-8	Endosulfan I	ND	12	
33212-65-9	Endosulfan II	ND	12	
1031-07-8	Endosulfan Sulfate	ND	12	
72-20-8	Endrin	ND	12	
7421-93-4	Endrin Aldehyde	ND	12	
53494-70-5	Endrin Ketone	ND	12	
5103-74-2	Gamma Chlordane	ND	12	
58-89-9	Gamma-BHC	ND	12	
76-44-8	Heptachlor	ND	12	
1024-57-3	Heptachlor Epoxide	ND	12	
72-43-5	Methoxychlor	ND	12	
12674-11-2	Aroclor-1016	ND	240	
11104-28-2	Aroclor-1221	ND	240	
11141-16-5	Aroclor-1232	ND	240	
53469-21-9	Aroclor-1242	ND	240	
12672-29-6	Aroclor-1248	ND	240	
11097-69-1	Aroclor-1254	ND	240	
11096-82-5	Aroclor-1260	ND	240	
11100-14-4	Aroclor-1262	ND	240	
37324-23-5	Aroclor-1268	ND	240	
57-74-9	Technical Chlordane	ND	240	
8001-35-2	Toxaphene	ND	240	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

91
67

QC Ranges

18 - 130
64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30193
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/17/11
Dry Weight Extracted: 3.09 grams
Wet Weight Extracted: 5.17 grams
Volume Extracted: N/A

Lab Sample ID: AB16958
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 60%
Extract Dilution: 2
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	16	
72-55-9	4,4'-DDE	ND	16	
50-29-3	4,4'-DDT	ND	16	
309-00-2	Aldrin	ND	16	
5103-71-9	Alpha Chlordane	23	16	
319-84-6	Alpha-BHC	ND	16	
319-85-7	Beta-BHC	ND	16	
319-86-8	Delta-BHC	ND	16	
60-57-1	Dieldrin	ND	16	
959-98-8	Endosulfan I	ND	16	
33212-65-9	Endosulfan II	ND	16	
1031-07-8	Endosulfan Sulfate	ND	16	
72-20-8	Endrin	ND	16	
7421-93-4	Endrin Aldehyde	ND	16	
53494-70-5	Endrin Ketone	ND	16	
5103-74-2	Gamma Chlordane	ND	16	
58-89-9	Gamma-BHC	ND	16	
76-44-8	Heptachlor	ND	16	
1024-57-3	Heptachlor Epoxide	ND	16	
72-43-5	Methoxychlor	ND	16	
12674-11-2	Aroclor-1016	ND	320	
11104-28-2	Aroclor-1221	ND	320	
11141-16-5	Aroclor-1232	ND	320	
53469-21-9	Aroclor-1242	ND	320	
12672-29-6	Aroclor-1248	ND	320	
11097-69-1	Aroclor-1254	ND	320	
11096-82-5	Aroclor-1260	ND	320	
11100-14-4	Aroclor-1262	ND	320	
37324-23-5	Aroclor-1268	ND	320	
57-74-9	Technical Chlordane	ND	320	
8001-35-2	Toxaphene	ND	320	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

80
89

QC Ranges

18 - 130
64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Pesticides and PCBs Medium Level in Soil

Client Sample ID: D30195
Date of Collection: 4/26/2011
Date of Extraction: 4/29/11
Date of Analysis: 5/13/11
Dry Weight Extracted: 3.17 grams
Wet Weight Extracted: 5.52 grams
Volume Extracted: N/A

Lab Sample ID: AB16960
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 57%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	10	8.0	
72-55-9	4,4'-DDE	22	8.0	
50-29-3	4,4'-DDT	76	8.0	
309-00-2	Aldrin	ND	8.0	
5103-71-9	Alpha Chlordane	ND	8.0	
319-84-6	Alpha-BHC	ND	8.0	
319-85-7	Beta-BHC	ND	8.0	
319-86-8	Delta-BHC	ND	8.0	
60-57-1	Dieldrin	ND	8.0	
959-98-8	Endosulfan I	ND	8.0	
33212-65-9	Endosulfan II	ND	8.0	
1031-07-8	Endosulfan Sulfate	ND	8.0	
72-20-8	Endrin	ND	8.0	
7421-93-4	Endrin Aldehyde	ND	8.0	
53494-70-5	Endrin Ketone	ND	8.0	
5103-74-2	Gamma Chlordane	ND	8.0	
58-89-9	Gamma-BHC	ND	8.0	
76-44-8	Heptachlor	ND	8.0	
1024-57-3	Heptachlor Epoxide	ND	8.0	
72-43-5	Methoxychlor	ND	8.0	
12674-11-2	Aroclor-1016	ND	160	
11104-28-2	Aroclor-1221	ND	160	
11141-16-5	Aroclor-1232	ND	160	
53469-21-9	Aroclor-1242	ND	160	
12672-29-6	Aroclor-1248	ND	160	
11097-69-1	Aroclor-1254	ND	160	
11096-82-5	Aroclor-1260	ND	160	
11100-14-4	Aroclor-1262	ND	160	
37324-23-5	Aroclor-1268	ND	160	
57-74-9	Technical Chlordane	ND	160	
8001-35-2	Toxaphene	ND	160	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

100
100

QC Ranges

18 - 130
64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil
Date of Extraction:	4/29/11	Final Volume:	5 mL
Date of Analysis:	5/11/11	Percent Solids:	100%
Dry Weight Extracted:	5.50 grams	Extract Dilution:	1
Wet Weight Extracted:	5.50 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	4.5	
72-55-9	4,4'-DDE	ND	4.5	
50-29-3	4,4'-DDT	ND	4.5	
309-00-2	Aldrin	ND	4.5	
5103-71-9	Alpha Chlordane	ND	4.5	
319-84-6	Alpha-BHC	ND	4.5	
319-85-7	Beta-BHC	ND	4.5	
319-86-8	Delta-BHC	ND	4.5	
60-57-1	Dieldrin	ND	4.5	
959-98-8	Endosulfan I	ND	4.5	
33212-65-9	Endosulfan II	ND	4.5	
1031-07-8	Endosulfan Sulfate	ND	4.5	
72-20-8	Endrin	ND	4.5	
7421-93-4	Endrin Aldehyde	ND	4.5	
53494-70-5	Endrin Ketone	ND	4.5	
5103-74-2	Gamma Chlordane	ND	4.5	
58-89-9	Gamma-BHC	ND	4.5	
76-44-8	Heptachlor	ND	4.5	
1024-57-3	Heptachlor Epoxide	ND	4.5	
72-43-5	Methoxychlor	ND	4.5	
12674-11-2	Aroclor-1016	ND	90	
11104-28-2	Aroclor-1221	ND	90	
11141-16-5	Aroclor-1232	ND	90	
53469-21-9	Aroclor-1242	ND	90	
12672-29-6	Aroclor-1248	ND	90	
11097-69-1	Aroclor-1254	ND	90	
11096-82-5	Aroclor-1260	ND	90	
11100-14-4	Aroclor-1262	ND	90	
37324-23-5	Aroclor-1268	ND	90	
57-74-9	Technical Chlordane	ND	90	
8001-35-2	Toxaphene	ND	90	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

83
89

QC Ranges

18 - 130
64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

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

A & J Floral - Benton, ME

Sample ID: AB16941

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
4,4'-DDD	48	8.3	63.2	115	70 - 130
4,4'-DDE	48	ND	50.3	105	70 - 130
4,4'-DDT	48	61	108.6	100	34 - 166
Aldrin	48	ND	45.7	96	36 - 119
Alpha Chlordane	48	ND	44.8	94	70 - 130
Alpha-BHC	48	ND	43.0	90	70 - 130
Aroclor-1016	0	ND	ND	0	70 - 130
Aroclor-1254	0	ND	ND	0	70 - 130
Aroclor-1260	0	ND	ND	0	70 - 130
Beta-BHC	48	ND	39.7	83	70 - 130
Delta-BHC	48	ND	30.3	63	70 - 130
Dieldrin	48	ND	53.4	112	39 - 155
Endosulfan I	48	ND	48.2	101	70 - 130
Endosulfan II	48	ND	53.8	113	70 - 130
Endosulfan Sulfate	48	ND	50.1	105	70 - 130
Endrin	48	ND	48.1	101	52 - 139
Endrin Aldehyde	48	ND	33.0	69	70 - 130
Endrin Ketone	48	ND	45.8	96	70 - 130
Gamma Chlordane	48	ND	47.6	100	70 - 130
Gamma-BHC	48	ND	43.5	91	34 - 137
Heptachlor	48	ND	39.5	83	47 - 143
Heptachlor Epoxide	48	ND	45.9	96	70 - 130
Methoxychlor	48	ND	48.7	102	70 - 130
Technical Chlordane	0	ND	ND	0	70 - 130
Toxaphene	0	ND	ND	0	70 - 130

Comments: Matrix spike recoveries for Delta-BHC and Endrin Aldehyde are below the QC limit.

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
4,4'-DDD	48	58.9	107	8	50
4,4'-DDE	48	52.2	110	4	50
4,4'-DDT	48	115.1	114	13	50
Aldrin	48	50.9	107	11	50
Alpha Chlordane	48	50.6	107	13	50
Alpha-BHC	48	49.2	104	14	50
Beta-BHC	48	44.8	94	13	50
Delta-BHC	48	35.3	74	16	50
Dieldrin	48	54.9	116	3	50
Endosulfan I	48	55.1	116	14	50
Endosulfan II	48	61.5	130	14	50
Endosulfan Sulfate	48	55.3	116	11	50
Endrin	48	51.4	108	7	50
Endrin Aldehyde	48	42.2	89	25	50
Endrin Ketone	48	49.1	103	8	50
Gamma Chlordane	48	54.1	114	13	50
Gamma-BHC	48	51.1	108	17	50
Heptachlor	48	46.5	98	17	50
Heptachlor Epoxide	48	52.1	110	13	50
Methoxychlor	48	55.1	116	13	50

Comments:

Samples in Batch: AB16941, AB16942, AB16943, AB16944, AB16945, AB16947, AB16949, AB16950, AB16955, AB16958, AB16960

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

A & J Floral - Benton, ME

Sample ID: AB16941

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
4,4'-DDD	8.3	8.3	0.0	50
4,4'-DDE	ND	ND	ND	50
4,4'-DDT	61	55	10.3	50
Aldrin	ND	ND	ND	50
Alpha Chlordane	ND	ND	ND	50
Alpha-BHC	ND	ND	ND	50
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
Beta-BHC	ND	ND	ND	50
Delta-BHC	ND	ND	ND	50
Dieldrin	ND	ND	ND	50
Endosulfan I	ND	ND	ND	50
Endosulfan II	ND	ND	ND	50
Endosulfan Sulfate	ND	ND	ND	50
Endrin	ND	ND	ND	50
Endrin Aldehyde	ND	ND	ND	50
Endrin Ketone	ND	ND	ND	50
Gamma Chlordane	ND	ND	ND	50
Gamma-BHC	ND	ND	ND	50
Heptachlor	ND	ND	ND	50
Heptachlor Epoxide	ND	ND	ND	50
Methoxychlor	ND	ND	ND	50
Technical Chlordane	ND	ND	ND	50
Toxaphene	ND	ND	ND	50

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	D30176	SS-01	Metals by ICP	Soil	4/26/2011	11:30	1	8 oz. jar	None	Y
	D30176	SS-01	OILID	Soil	4/26/2011	11:30	1	8 oz. jar	None	Y
	D30176	SS-01	Percent Solids	Soil	4/26/2011	11:30	1	40 mL VOA	None	Y
	D30176	SS-01	Pest/PCB (\$PESMS)	Soil	4/26/2011	11:30	2	8 oz. jar	None	Y
	D30176	SS-01	SVOCs (\$BNAMS)	Soil	4/26/2011	11:30	1	8 oz. jar	None	Y
	D30176	SS-01	VOCs (\$VOAHS)	Soil	4/26/2011	11:30	1	40 mL VOA	MeOH	Y
	D30176	SS-01	VOCs (\$VOAHS)	Soil	4/26/2011	11:30	1	40 mL VOA	MeOH	Y
	D30177	SS-02	OILID	Soil	4/26/2011	11:50	1	4 oz. jar	None	N
	D30177	SS-02	Percent Solids	Soil	4/26/2011	11:50	1	40 mL VOA	None	N
	D30177	SS-02	Pest/PCB (\$PESMS)	Soil	4/26/2011	11:50	1	8 oz. jar	None	N
	D30177	SS-02	SVOCs (\$BNAMS)	Soil	4/26/2011	11:50	1	4 oz. jar	None	N
	D30177	SS-02	VOCs (\$VOAHS)	Soil	4/26/2011	11:50	1	40 mL VOA	MeOH	N
	D30178	SS-03	Metals by ICP	Soil	4/26/2011	12:20	1	4 oz. jar	None	N
	D30178	SS-03	OILID	Soil	4/26/2011	12:20	1	4 oz. jar	None	N
	D30178	SS-03	Pest/PCB (\$PESMS)	Soil	4/26/2011	12:20	1	8 oz. jar	None	N
	D30178	SS-03	SVOCs (\$BNAMS)	Soil	4/26/2011	12:20	1	4 oz. jar	None	N
	D30179	SS-04	OILID	Soil	4/26/2011	12:45	1	4 oz. jar	None	N
	D30179	SS-04	Percent Solids	Soil	4/26/2011	12:45	1	40 mL VOA	None	N
	D30179	SS-04	Pest/PCB (\$PESMS)	Soil	4/26/2011	12:45	1	8 oz. jar	None	N

USEPA

Hand Delivered: 4/28/11
Sampler Signature: *[Signature]*

CHAIN OF CUSTODY RECORD

A & J Floral
Ted Bazenas
617-918-4710

No: 1-042611-225156-0001

Site #: R01-110426TB
Lab: OEME

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	D30179	SS-04	SVOCs (\$BNAMS)	Soil	4/26/2011	12:45	1	4 oz. jar	None	N
	D30179	SS-04	VOCs (\$VOAHS)	Soil	4/26/2011	12:45	1	40 mL VOA	MeOH	N
	D30180	SS-05	Metals by ICP	Soil	4/26/2011	11:39	1	4 oz. jar	None	N
	D30180	SS-05	OLID	Soil	4/26/2011	11:39	1	4 oz. jar	None	N
	D30180	SS-05	Pest/PCB (\$PESMS)	Soil	4/26/2011	11:39	1	8 oz. jar	None	N
	D30180	SS-05	SVOCs (\$BNAMS)	Soil	4/26/2011	11:39	1	4 oz. jar	None	N
	D30181	SS-06	OLID	Soil	4/26/2011	12:04	1	4 oz. jar	None	N
	D30181	SS-06	SVOCs (\$BNAMS)	Soil	4/26/2011	12:04	1	4 oz. jar	None	N
	D30182	SS-07	OLID	Soil	4/26/2011	12:22	1	4 oz. jar	None	N
	D30182	SS-07	Pest/PCB (\$PESMS)	Soil	4/26/2011	12:22	1	8 oz. jar	None	N
	D30182	SS-07	SVOCs (\$BNAMS)	Soil	4/26/2011	12:22	1	4 oz. jar	None	N
	D30183	SS-08	OLID	Soil	4/26/2011	12:33	1	4 oz. jar	None	N
	D30183	SS-08	SVOCs (\$BNAMS)	Soil	4/26/2011	12:33	1	4 oz. jar	None	N
	D30184	SS-09	OLID	Soil	4/26/2011	12:50	1	4 oz. jar	None	N
	D30184	SS-09	Percent Solids	Soil	4/26/2011	12:50	1	40 mL VOA	None	N
	D30184	SS-09	Pest/PCB (\$PESMS)	Soil	4/26/2011	12:50	1	8 oz. jar	None	N
	D30184	SS-09	SVOCs (\$BNAMS)	Soil	4/26/2011	12:50	1	4 oz. jar	None	N
	D30184	SS-09	VOCs (\$VOAHS)	Soil	4/26/2011	12:50	1	40 mL VOA	MeOH	N
	D30185	SS-10	OLID	Soil	4/26/2011	13:43	1	4 oz. jar	None	N

Special Instructions:

SAMPLES TRANSFERRED FROM	CHAIN OF CUSTODY #

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USFPA

Hand Delivered: 4/28/11

Sampler Signature: *Chin*

CHAIN OF CUSTODY RECORD

A & J Floral

Ted Bazenas

617-918-4710

No. 1-042611-225156-0001

Site #: R01-110426TB

Lab: OEME

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	D30185	SS-10	Pest/PCB (\$PESMS)	Soil	4/26/2011	13:43	1	8 oz. jar	None	N
	D30185	SS-10	SVOCs (\$BNAMS)	Soil	4/26/2011	13:43	1	4 oz. jar	None	N
	D30186	SS-11	OLID	Soil	4/26/2011	14:02	1	4 oz. jar	None	N
	D30186	SS-11	SVOCs (\$BNAMS)	Soil	4/26/2011	14:02	1	4 oz. jar	None	N
	D30187	SS-12	OLID	Soil	4/26/2011	14:15	1	4 oz. jar	None	N
	D30187	SS-12	SVOCs (\$BNAMS)	Soil	4/26/2011	14:15	1	4 oz. jar	None	N
	D30188	SS-13	OLID	Soil	4/26/2011	14:20	1	4 oz. jar	None	N
	D30188	SS-13	SVOCs (\$BNAMS)	Soil	4/26/2011	14:20	1	4 oz. jar	None	N
	D30189	SS-14	Metals by ICP	Soil	4/26/2011	14:40	1	4 oz. jar	None	N
	D30189	SS-14	OLID	Soil	4/26/2011	14:40	1	4 oz. jar	None	N
	D30189	SS-14	SVOCs (\$BNAMS)	Soil	4/26/2011	14:40	1	4 oz. jar	None	N
	D30190	SS-15	OLID	Soil	4/26/2011	14:43	1	4 oz. jar	None	N
	D30190	SS-15	Pest/PCB (\$PESMS)	Soil	4/26/2011	14:43	1	8 oz. jar	None	N
	D30190	SS-15	SVOCs (\$BNAMS)	Soil	4/26/2011	14:43	1	4 oz. jar	None	N
	D30191	SS-16	OLID	Soil	4/26/2011	13:40	1	4 oz. jar	None	N
	D30191	SS-16	SVOCs (\$BNAMS)	Soil	4/26/2011	13:40	1	4 oz. jar	None	N
	D30192	SS-17	OLID	Soil	4/26/2011	13:50	1	4 oz. jar	None	N
	D30192	SS-17	SVOCs (\$BNAMS)	Soil	4/26/2011	13:50	1	4 oz. jar	None	N
	D30193	SS-18	OLID	Soil	4/26/2011	14:00	1	4 oz. jar	None	N

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

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