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# *Appendix C – Summary of Non-PCB Constituent Data for Water, Sediment, Soil, and Biota*

## 1.1 General

In addition to the polychlorinated biphenyl (PCB) analyses discussed in the main body of the *Housatonic River - Rest of River RCRA Facility Investigation Report* (RFI Report), non-PCB constituents were also quantified in a smaller subset of surface water; sediment; floodplain, riverbank, and vernal pool soil; and biota samples. The text that follows provides a brief summary of the non-PCB constituent results for the surface water, sediment, and soil samples collected from the Rest of River area, and references tables in Appendix C that present summary statistics for all non-PCB constituents for which one or more Rest of River area samples contained detectable concentrations. Tables, which are referenced in Section 6 of the RFI Report, are also provided summarizing the non-PCB biota data.

The vast majority of surface water, sediment, and soil samples collected for non-PCB constituent analysis were collected by the United States Environmental Protection Agency (EPA) beginning in 1998 from the Rest of River area downstream of the Confluence of the East and West Branches of the Housatonic River (the Confluence). Sediment sampling was also performed in Rising Pond between 1989 and 1991, the results of which are also summarized below.

Non-PCB constituents analyzed include:

- Volatile organic compounds (VOCs);
- Semivolatile organic compounds (SVOCs);
- Polynuclear aromatic hydrocarbons (PAHs);
- Pesticides and herbicides;
- Polychlorinated dibenzo-p-dioxins/polychlorinated dibenzofurans (PCDDs/PCDFs);
- Metals; and
- Other inorganic compounds.

Table C-1 presents a complete listing of the individual compound constituents by media. The results of the non-PCB constituents that were detected are summarized in the following sections.

## 1.2 Surface Water

From August 1998 through May 2000, EPA collected surface water samples for the analysis of non-PCB constituents (note: inorganic and organic constituents are discussed in Section 3 of the RFI Report). Locations sampled included those locations associated with monthly or routine monitoring along with various intermediate locations; including:

- Holmes Road Bridge;
- Adjacent to Joseph Drive;
- Pittsfield Wastewater Treatment Plant (WWTP);
- New Lenox Road Bridge;
- Woods Pond Headwaters;

- Above Woods Pond Dam; and
- Schweitzer/Lenoxdale Bridge.

In addition, various discrete sampling locations (associated with risk assessment end points) were sampled and analyzed. Table C-2 provides a summary of the non-PCB compounds analyzed in surface water samples collected from the Rest of River area. Apparent in Table C-2, many of the non-PCB compounds were detected at very low frequencies, typically less than 10% of samples analyzed (i.e., Appendix IX pesticides, SVOCs, VOCs, and herbicides). PCDDs/PCDFs and metals (total and dissolved) were detected in approximately 20% of samples analyzed, while PAHs were detected in approximately 40% of samples analyzed.

The results of PCDD/PCDF analyses are discussed in detail in Section 3.9 of the RFI Report and are summarized in Table C-3. As noted above, PAHs were detected at the greatest frequency; however, the small sample size, generally one to two samples per location, make further evaluation of these data difficult. Generally, arithmetic mean and median PAH concentrations are consistent between sampling locations (Table C-4). With regard to metals, concentrations were typically similar among the locations sampled (Table C-5). Similar observations were made for the dissolved metals (Table C-6).

Tables C-7 through C-10 provide the summary statistics for detected VOC, SVOC, pesticide, and herbicide constituents. The typically low frequency of detection in these compounds prevents the analysis of any discernible trends.

## 1.3 Sediment

Between August 1998 and April 2002, EPA collected sediment samples for the analysis of non-PCB constituents during the agency's systematic and discrete sampling programs. Sediment samples were collected from the channel proper and backwater areas in Reach 5 (from the Confluence downstream to the headwaters of Woods Pond), Woods Pond, Rising Pond, and from the channel in Reach 9 (Rising Pond Dam to the Connecticut border). In addition, non-PCB constituent sampling conducted by Blasland & Bouck Engineers P.C. (Blasland & Bouck) and GZA GeoEnvironmental, Inc. (GZA) in Rising Pond between 1989 and 1991 are presented for comparison.

Table C-2 provides the summary of the non-PCB compounds analyzed in the channel and backwater sediments within the Rest of River area. Evident in Table C-2, PCDDs/PCDFs and metals were detected at the greatest frequency (> 75%), and to a lesser extent inorganics (approximately 30%) and Appendix IX SVOCs (between 10% and 15%), and are discussed below.

Concentrations of PCDDs/PCDFs in sediment are discussed in detail in Section 4.9 of this RFI Report and are summarized in Table C-11. Detected SVOC constituents were generally similar among the Reach 5 subreaches, Woods Pond, and Rising Pond, with slightly elevated concentrations, on average, in the backwater areas. Downstream of Rising Pond, SVOC concentrations were about one order of magnitude lower than those observed between the Confluence and Rising Pond Dam (Table C-12). For the most part, metals concentrations observed in the Rest of River sediments were generally similar within the more riverine reaches, with elevated concentrations observed in the impounded and/or depositional reaches (i.e., Reach 5C [from Roaring Brook to the headwaters of Woods Pond], 6 [Woods Pond], 8 [Rising Pond], and backwaters) (Table C-13). A similar trend is observed among the inorganic constituents (Table C-14), with both sulfide and ammonia (as N) sediment concentrations typically higher within the more depositional reaches.

As noted above, between 1989 and 1991, Blasland & Bouck and GZA collected sediment samples for non-PCB compound analysis from Rising Pond. Table C-15 presents a summary of the detected non-PCB data. Due to the small sample size for the 1989-1991 dataset, comparisons between the 1989-1991 and 1998-2002 data are limited. However, typically a similar range of concentrations are observed in both datasets.

Tables C-16 through C-18 present the summary statistics for detected pesticide, herbicide, and mineral constituents.

## 1.4 Floodplain and Riverbank Soil

Between August 1998 and June 2002, EPA collected floodplain and riverbank soil samples for the analysis of non-PCB compounds. Soil samples were collected from the floodplain and riverbanks in Reaches 5A (from the Confluence to the Pittsfield WWTP), 5B (from the Pittsfield WWTP to Roaring Brook), 5C, Woods Pond, and Reach 7.

Table C-2 provides a summary of the non-PCB compounds analyzed. Apparent in Table C-2, PCDDs/PCDFs and metals were the most frequently detected non-PCB compounds in floodplain and riverbank soils, with detected concentrations being reported in approximately 80% (or more) of samples analyzed. Other non-PCB compounds were detected in less than 10% of samples analyzed.

PCDD/PCDF concentrations in floodplain and riverbank soil are discussed in detail in Section 5.8 and summarized in Table C-19. Detected concentrations of metals were similar between locations, therefore no relationship is noted (Table C-20).

Tables C-21 through C-24 provide a summary of detected SVOC, pesticide, herbicide, and inorganic constituents.

## 1.5 Vernal Pools

Between February 1999 and May 2000, EPA collected soil samples from select vernal pool locations for the analysis of non-PCB constituents. Vernal pool samples were collected from the subreaches of Reach 5 only.

Similar to the floodplain and riverbank soils, PCDDs/PCDFs and metals were frequently detected (> 75%). PCDDs/PCDFs are discussed in detail in Section 5.8 and summarized in Table C-25. Metals were detected at generally higher concentrations in Reach 5B (Table C-26) in comparison to results from Reaches 5A and 5C (which were similar). PAHs were detected in approximately 99% of samples analyzed; however, as with the surface water, the low collection frequency by reach limits any discernable trends. It can be noted (Table C-27) that among comparable constituents, concentrations are generally higher in Reaches 5B and 5C.

Tables C-28 through C-30 provide the summary statistics for SVOCs, pesticides, and inorganic compounds detected in vernal pool soil samples.

# *Appendix C Tables*

BLASLAND, BOUCK & LEE, INC.
*engineers & scientists*

## Table C-1
## Summary of Non-PCB Constituents by Media

| Non-PCB Category | Non-PCB Constituent | Surface Water | Sediment | Backwaters | Floodplain and Riverbank Soil | Vernal Pool |
|---|---|---|---|---|---|---|
| Appendix IX Pesticides | 1,2,3,4-TETRACHLOROBENZENE | | | | | X |
| | 1,2,4,5-TETRACHLOROBENZENE | X | X | X | X | X |
| | 4,4'-DDD | X | X | X | X | X |
| | 4,4'-DDE | X | X | X | X | X |
| | 4,4'-DDT | X | X | X | X | X |
| | ALDRIN | X | X | X | X | X |
| | ALPHA-BHC | X | X | X | X | X |
| | ALPHA-CHLORDANE | | | | | X |
| | BETA-BHC | X | X | X | X | X |
| | CHLORDANE | X | X | X | X | X |
| | CHLORPYRIFOS | | | | | X |
| | CIS-NONACHLOR | | | | | X |
| | DELTA-BHC | X | X | X | X | X |
| | DIELDRIN | X | X | X | X | X |
| | ENDOSULFAN I | X | X | X | X | X |
| | ENDOSULFAN II | X | X | X | X | X |
| | ENDOSULFAN SULFATE | X | X | X | X | X |
| | ENDRIN | X | X | X | X | X |
| | ENDRIN ALDEHYDE | X | X | X | X | X |
| | GAMMA BHC (LINDANE) | X | X | X | X | X |
| | GAMMA-CHLORDANE | | | | | X |
| | HEPTACHLOR | X | X | X | X | X |
| | HEPTACHLOR EPOXIDE | X | X | X | X | X |
| | HEXACHLOROBENZENE | X | X | X | X | X |
| | ISODRIN | X | X | X | X | X |
| | KEPONE | X | X | X | X | |
| | METHOXYCHLOR | X | X | X | X | X |
| | MIREX | | | | | X |
| | O,P'-DDD | | | | | X |
| | O,P'-DDE | | | | | X |
| | O,P'-DDT | | | | | X |
| | OXYCHLORDANE | | | | | X |
| | PENTACHLOROANISOLE | | | | | X |
| | PENTACHLOROBENZENE | X | X | X | X | X |
| | TOXAPHENE | X | X | X | X | X |
| | TRANS-NONACHLOR | | | | | X |
| Appendix IX SVOCs | 1,2,4,5-TETRACHLOROBENZENE | X | X | X | X | X |
| | 1,2,4-TRICHLOROBENZENE | X | X | X | X | X |
| | 1,2-DICHLOROBENZENE | X | X | X | X | X |
| | 1,3,5-TRINITROBENZENE | X | X | X | X | X |
| | 1,3-DICHLOROBENZENE | X | X | X | X | X |
| | 1,3-DINITROBENZENE | X | X | X | X | X |
| | 1,4-DICHLOROBENZENE | X | X | X | X | X |
| | 1,4-NAPHTHOQUINONE | X | X | X | X | X |
| | 1-NAPHTHYLAMINE | X | X | X | X | X |
| | 2,3,4,6-TETRACHLOROPHENOL | X | X | X | X | X |
| | 2,4,5-TRICHLOROPHENOL | X | X | X | X | X |
| | 2,4,6-TRICHLOROPHENOL | X | X | X | X | X |
| | 2,4-DICHLOROPHENOL | X | X | X | X | X |
| | 2,4-DIMETHYLPHENOL | X | X | X | X | X |
| | 2,4-DINITROPHENOL | X | X | X | X | X |
| | 2,4-DINITROTOLUENE | X | X | X | X | X |
| | 2,6-DICHLOROPHENOL | X | X | X | X | X |
| | 2,6-DINITROTOLUENE | X | X | X | X | X |
| | 2-ACETYLAMINOFLUORENE | X | X | X | X | X |
| | 2-CHLORONAPHTHALENE | X | X | X | X | X |
| | 2-CHLOROPHENOL | X | X | X | X | X |
| | 2-METHYLNAPHTHALENE | X | X | X | X | X |
| | 2-METHYLPHENOL (O-CRESOL) | X | X | X | X | X |
| | 2-NAPHTHYLAMINE | X | X | X | X | X |
| | 2-NITROANILINE | X | X | X | X | X |

## Table C-1
## Summary of Non-PCB Constituents by Media

| Non-PCB Category | Non-PCB Constituent | Surface Water | Sediment | Backwaters | Floodplain and Riverbank Soil | Vernal Pool |
|---|---|---|---|---|---|---|
| Appendix IX SVOCs (continued) | 2-NITROPHENOL | X | X | X | X | X |
| | 2-PICOLINE (ALPHA-PICOLINE) | X | X | X | X | X |
| | 3,3'-DICHLOROBENZIDINE | X | X | X | X | X |
| | 3,3'-DIMETHYLBENZIDINE | X | X | X | X | X |
| | 3-METHYLCHOLANTHRENE | X | X | X | X | X |
| | 3-NITROANILINE | X | X | X | X | X |
| | 4,6-DINITRO-2-METHYLPHENOL | X | X | X | X | X |
| | 4-AMINOBIPHENYL | X | X | X | X | X |
| | 4-BROMOPHENYL PHENYL ETHER | X | X | X | X | X |
| | 4-CHLORO-3-METHYLPHENOL | X | X | X | X | X |
| | 4-CHLOROANILINE | X | X | X | X | X |
| | 4-CHLOROPHENYL PHENYL ETHER | X | X | X | X | X |
| | 4-METHYLPHENOL | X | X | X | X | X |
| | 4-NITROANILINE | X | X | X | X | X |
| | 4-NITROPHENOL | X | X | X | X | X |
| | 4-NITROQUINOLINE-1-OXIDE | X | X | X | X | X |
| | 5-NITRO-O-TOLUIDINE | X | X | X | X | X |
| | 7,12-DIMETHYLBENZ(A)ANTHRACENE | X | X | X | X | X |
| | A,A-DIMETHYLPHENETHYLAMINE | X | X | X | X | X |
| | ACENAPHTHENE | X | X | X | X | X |
| | ACENAPTHYLENE | X | X | X | X | X |
| | ACETOPHENONE | X | X | X | X | X |
| | ANILINE | X | X | X | X | X |
| | ANTHRACENE | X | X | X | X | X |
| | ARAMITE | X | X | X | X | X |
| | AZOBENZENE | X | X | X | X | X |
| | BENZO(A)ANTHRACENE | X | X | X | X | X |
| | BENZO(A)PYRENE | X | X | X | X | X |
| | BENZO(B)FLUORANTHENE | X | X | X | X | X |
| | BENZO(GHI)PERYLENE | X | X | X | X | X |
| | BENZO(K)FLUORANTHENE | X | X | X | X | X |
| | BENZYL ALCOHOL | X | X | X | X | X |
| | BIS(2-CHLOROETHOXY) METHANE | X | X | X | X | X |
| | BIS(2-CHLOROETHYL) ETHER | X | X | X | X | X |
| | BIS(2-CHLOROISOPROPYL) ETHER | X | X | X | X | X |
| | BIS(2-ETHYLHEXYL) PHTHALATE | X | X | X | X | X |
| | BUTYLBENZYLPHTHALATE | X | X | X | X | X |
| | CHLOROBENZILATE | X | X | X | X | X |
| | CHRYSENE | X | X | X | X | X |
| | DIALLATE | X | X | X | X | X |
| | DIBENZO(A,H)ANTHRACENE | X | X | X | X | X |
| | DIBENZOFURAN | X | X | X | X | X |
| | DIETHYL PHTHALATE | X | X | X | X | X |
| | DIMETHYL PHTHALATE | X | X | X | X | X |
| | DI-N-BUTYL PHTHALATE | X | X | X | X | X |
| | DI-N-OCTYL PHTHALATE | X | X | X | X | X |
| | DINOSEB | X | X | X | X | X |
| | ETHYL METHANESULFONATE | X | X | X | X | X |
| | FLUORANTHENE | X | X | X | X | X |
| | FLUORENE | X | X | X | X | X |
| | HEXACHLOROBENZENE | X | X | X | X | X |
| | HEXACHLOROBUTADIENE | X | X | X | X | X |
| | HEXACHLOROCYCLOPENTADIENE | X | X | X | X | X |
| | HEXACHLOROETHANE | X | X | X | X | X |
| | HEXACHLOROPROPENE | X | X | X | X | X |
| | INDENO(1,2,3-C,D)PYRENE | X | X | X | X | X |
| | ISOPHORONE | X | X | X | X | X |
| | ISOSAFROLE | X | X | X | X | X |
| | METHAPYRILENE | X | X | X | X | X |
| | METHYL METHANESULFONATE | X | X | X | X | X |
| | NAPHTHALENE | X | X | X | X | X |

## Table C-1
## Summary of Non-PCB Constituents by Media

| Non-PCB Category | Non-PCB Constituent | Surface Water | Sediment | Backwaters | Floodplain and Riverbank Soil | Vernal Pool |
|---|---|---|---|---|---|---|
| Appendix IX SVOCs (continued) | NITROBENZENE | X | X | X | X | X |
| | NITROSOMETHYLETHYLAMINE | X | X | X | X | X |
| | N-NITROSODIETHYLAMINE | X | X | X | X | X |
| | N-NITROSODIMETHYLAMINE | X | X | X | X | X |
| | N-NITROSO-DI-N-BUTYLAMINE | X | X | X | X | X |
| | N-NITROSO-DI-N-PROPYLAMINE | X | X | X | X | X |
| | N-NITROSODIPHENYLAMINE | X | X | X | X | X |
| | N-NITROSOMORPHOLINE | X | X | X | X | X |
| | N-NITROSOPIPERIDINE | X | X | X | X | X |
| | N-NITROSOPYRROLIDINE | X | X | X | X | X |
| | O-TOLUIDINE | X | X | X | X | X |
| | P-DIMETHYLAMINOAZOBENZENE | X | X | X | X | X |
| | PENTACHLOROBENZENE | X | X | X | X | X |
| | PENTACHLOROETHANE | X | X | X | X | X |
| | PENTACHLORONITROBENZENE | X | X | X | X | X |
| | PENTACHLOROPHENOL | X | X | X | X | X |
| | PHENACETIN | X | X | X | X | X |
| | PHENANTHRENE | X | X | X | X | X |
| | PHENOL | X | X | X | X | X |
| | P-PHENYLENEDIAMINE | X | X | X | X | X |
| | PRONAMIDE | X | X | X | X | X |
| | PYRENE | X | X | X | X | X |
| | PYRIDINE | X | X | X | X | X |
| | SAFROLE | X | X | X | X | X |
| | TOTAL PAH | X | X | X | X | X |
| | TOTAL PAH (HIGH MW) | X | X | X | X | X |
| | TOTAL PAH (LOW MW) | X | X | X | X | X |
| Appendix IX VOCs | 1,1,1,2-TETRACHLOROETHANE | X | | | | |
| | 1,1,1-TRICHLOROETHANE | X | | | | |
| | 1,1,2,2-TETRACHLOROETHANE | X | | | | |
| | 1,1,2-TRICHLOROETHANE | X | | | | |
| | 1,1-DICHLOROETHANE | X | | | | |
| | 1,1-DICHLOROETHENE | X | | | | |
| | 1,2,3-TRICHLOROPROPANE | X | | | | |
| | 1,2-DIBROMO-3-CHLOROPROPANE | X | | | | |
| | 1,2-DIBROMOETHANE | X | | | | |
| | 1,2-DICHLOROETHANE | X | | | | |
| | 1,2-DICHLOROPROPANE | X | | | | |
| | 2-BUTANONE | X | | | | |
| | 2-CHLORO-1,3-BUTADIENE | X | | | | |
| | 2-CHLOROETHYLVINYLETHER | X | | | | |
| | 2-HEXANONE | X | | | | |
| | 4-METHYL-2-PENTANONE | X | | | | |
| | ACETONE | X | | | | |
| | ACROLEIN | X | | | | |
| | ACRYLONITRILE | X | | | | |
| | ALLYL CHLORIDE (3-CHLOROPROPENE) | X | | | | |
| | BENZENE | X | | | | |
| | BROMODICHLOROMETHANE | X | | | | |
| | BROMOFORM | X | | | | |
| | BROMOMETHANE | X | | | | |
| | CARBON DISULFIDE | X | | | | |
| | CARBON TETRACHLORIDE | X | | | | |
| | CHLOROBENZENE | X | | | | |
| | CHLOROETHANE | X | | | | |
| | CHLOROFORM | X | | | | |
| | CHLOROMETHANE | X | | | | |
| | CIS-1,3-DICHLOROPROPENE | X | | | | |
| | DIBROMOCHLOROMETHANE | X | | | | |
| | DIBROMOMETHANE | X | | | | |
| | ETHYL BENZENE | X | | | | |

## Table C-1
## Summary of Non-PCB Constituents by Media

| Non-PCB Category | Non-PCB Constituent | Surface Water | Sediment | Backwaters | Floodplain and Riverbank Soil | Vernal Pool |
|---|---|---|---|---|---|---|
| Appendix IX VOCs (continued) | ETHYL METHACRYLATE | X | | | | |
| | FREON 12 | X | | | | |
| | IODOMETHANE (METHYL IODIDE) | X | | | | |
| | METHYL METHACRYLATE | X | | | | |
| | METHYLACRYLONITRILE | X | | | | |
| | METHYLENE CHLORIDE | X | | | | |
| | PROPANE NITRILE (PROPIONITRILE) | X | | | | |
| | STYRENE | X | | | | |
| | TETRACHLOROETHYLENE(PCE) | X | | | | |
| | TOLUENE | X | | | | |
| | TRANS-1,2-DICHLOROETHENE | X | | | | |
| | TRANS-1,3-DICHLOROPROPENE | X | | | | |
| | TRANS-1,4-DICHLORO-2-BUTENE | X | | | | |
| | TRICHLOROETHYLENE (TCE) | X | | | | |
| | TRICHLOROFLUOROMETHANE | X | | | | |
| | VINYL ACETATE | X | | | | |
| | VINYL CHLORIDE | X | | | | |
| | XYLENES (TOTAL) | X | | | | |
| Dioxins/Furans | 1,2,3,4,6,7,8-HPCDD | X | X | X | X | X |
| | 1,2,3,4,6,7,8-HPCDF | X | X | X | X | X |
| | 1,2,3,4,7,8,9-HPCDF | X | X | X | X | X |
| | 1,2,3,4,7,8-HXCDD | X | X | X | X | X |
| | 1,2,3,4,7,8-HXCDF | X | X | X | X | X |
| | 1,2,3,6,7,8-HXCDD | X | X | X | X | X |
| | 1,2,3,6,7,8-HXCDF | X | X | X | X | X |
| | 1,2,3,7,8,9-HXCDD | X | X | X | X | X |
| | 1,2,3,7,8,9-HXCDF | X | X | X | X | X |
| | 1,2,3,7,8-PECDD | X | X | X | X | X |
| | 1,2,3,7,8-PECDF | X | X | X | X | X |
| | 2,3,4,6,7,8-HXCDF | X | X | X | X | X |
| | 2,3,4,7,8-PECDF | X | X | X | X | X |
| | 2,3,7,8-TCDD | X | X | X | X | X |
| | 2,3,7,8-TCDF | X | X | X | X | X |
| | HPCDD (TOTAL) | X | X | X | X | X |
| | HPCDF (TOTAL) | X | X | X | X | X |
| | HXCDD (TOTAL) | X | X | X | X | X |
| | HXCDF (TOTAL) | X | X | X | X | X |
| | OCDD | X | X | X | X | X |
| | OCDF | X | X | X | X | X |
| | PECDD (TOTAL) | X | X | X | X | X |
| | PECDF (TOTAL) | X | X | X | X | X |
| | TCDD (TOTAL) | X | X | X | X | X |
| | TCDF (TOTAL) | X | X | X | X | X |
| Herbicides | 2,4,5-T | X | X | X | X | |
| | 2,4,5-TP (SILVEX) | X | X | X | X | |
| | 2,4-D | X | X | X | X | |
| Inorganics | AMMONIA AS N | | X | | | |
| | CYANIDE | | X | X | X | X |
| | PH | | X | | | |
| | SULFIDE | | X | X | X | X |
| Metals | ALUMINUM | | | | | X |
| | ANTIMONY | X | X | X | X | X |
| | ARSENIC | X | X | X | X | X |
| | BARIUM | X | X | X | X | X |
| | BERYLLIUM | X | X | X | X | X |
| | CADMIUM | X | X | X | X | X |
| | CALCIUM | X | | | | |
| | CHROMIUM | X | X | X | X | X |
| | COBALT | X | X | X | X | X |
| | COPPER | X | X | X | X | X |

## Table C-1
## Summary of Non-PCB Constituents by Media

| Non-PCB Category | Non-PCB Constituent | Surface Water | Sediment | Backwaters | Floodplain and Riverbank Soil | Vernal Pool |
|---|---|---|---|---|---|---|
| Metals (continued) | IRON | | | | | X |
| | LEAD | X | X | X | X | X |
| | MAGNESIUM | X | | | | X |
| | MANGANESE | | | | | X |
| | MERCURY | X | X | X | X | X |
| | NICKEL | X | X | X | X | X |
| | SELENIUM | X | X | X | X | X |
| | SILVER | X | X | X | X | X |
| | STRONTIUM | | | | | X |
| | THALLIUM | X | X | X | X | X |
| | TIN | X | X | X | X | X |
| | VANADIUM | X | X | X | X | X |
| | ZINC | X | X | X | X | X |
| Dissolved Metals | ANTIMONY, DISSOLVED | X | | | | |
| | ARSENIC, DISSOLVED | X | | | | |
| | BARIUM, DISSOLVED | X | | | | |
| | BERYLLIUM, DISSOLVED | X | | | | |
| | CADMIUM, DISSOLVED | X | | | | |
| | CALCIUM, DISSOLVED | X | | | | |
| | CHROMIUM, DISSOLVED | X | | | | |
| | COBALT, DISSOLVED | X | | | | |
| | COPPER, DISSOLVED | X | | | | |
| | LEAD, DISSOLVED | X | | | | |
| | MAGNESIUM, DISSOLVED | X | | | | |
| | MERCURY, DISSOLVED | X | | | | |
| | NICKEL, DISSOLVED | X | | | | |
| | SELENIUM, DISSOLVED | X | | | | |
| | SILVER, DISSOLVED | X | | | | |
| | THALLIUM, DISSOLVED | X | | | | |
| | TIN, DISSOLVED | X | | | | |
| | VANADIUM, DISSOLVED | X | | | | |
| | ZINC, DISSOLVED | X | | | | |
| Mineral | % ALBITE | | X | | | |
| | % CHLORITE | | X | | | |
| | % MICROCLINE | | X | | | |
| | % ORGANICS | | X | | | |
| | % QUARTZ | | X | | | |
| | %MUSCOVITE | | X | | | |
| PAHs | 1,6,7-TRIMETHYLNAPHTHALENE | | | | | X |
| | 1-METHYLNAPHTHALENE | | | | | X |
| | 1-METHYLPHENANTHRENE | | | | | X |
| | 2,6 DIMETHYLNAPHTHALENE | | | | | X |
| | 2-METHYLNAPHTHALENE | X | X | X | X | X |
| | ACENAPHTHENE | X | X | X | X | X |
| | ACENAPTHYLENE | X | X | X | X | X |
| | ANTHRACENE | X | X | X | X | X |
| | BENZO(A)ANTHRACENE | X | X | X | X | X |
| | BENZO(A)PYRENE | X | X | X | X | X |
| | BENZO(B)FLUORANTHENE | X | X | X | X | X |
| | BENZO(E)PYRENE | | | | | X |
| | BENZO(GHI)PERYLENE | X | X | X | X | X |
| | BENZO(K)FLUORANTHENE | X | X | X | X | X |
| | BIPHENYL (DIPHENYL) | | | | | X |
| | C1-CHRYSENES | | | | | X |
| | C1-DIBENZOTHIOPHENES | | | | | X |
| | C1-FLUORANTHENES & PYRENES | | | | | X |
| | C1-FLUORENES | | | | | X |
| | C1-NAPHTHALENES | | | | | X |
| | C1-PHENANTHRENES & ANTHRACENES | | | | | X |
| | C2-CHRYSENES | | | | | X |
| | C2-DIBENZOTHIOPHENES | | | | | X |

## Table C-1
## Summary of Non-PCB Constituents by Media

| Non-PCB Category | Non-PCB Constituent | Surface Water | Sediment | Backwaters | Floodplain and Riverbank Soil | Vernal Pool |
|---|---|---|---|---|---|---|
| PAHs (continued) | C2-FLUORENES | | | | | X |
| | C2-NAPHTHALENES | | | | | X |
| | C2-PHENANTHRENES & ANTHRACENES | | | | | X |
| | C3-CHRYSENES | | | | | X |
| | C3-DIBENZOTHIOPHENES | | | | | X |
| | C3-FLUORENES | | | | | X |
| | C3-NAPHTHALENES | | | | | X |
| | C3-PHENANTHRENES & ANTHRACENES | | | | | X |
| | C4-CHRYSENES | | | | | X |
| | C4-NAPHTHALENES | | | | | X |
| | C4-PHENANTHRENES & ANTHRACENES | | | | | X |
| | CHRYSENE | X | X | X | X | X |
| | DIBENZO(A,H)ANTHRACENE | X | X | X | X | X |
| | DIBENZOTHIOPHENE | | | | | X |
| | FLUORANTHENE | X | X | X | X | X |
| | FLUORENE | X | X | X | X | X |
| | INDENO(1,2,3-C,D)PYRENE | X | X | X | X | X |
| | NAPHTHALENE | X | X | X | X | X |
| | PERYLENE | | | | | X |
| | PHENANTHRENE | X | X | X | X | X |
| | PYRENE | X | X | X | X | X |

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# Table C-2
# Non-PCB Compound Analysis Summary

| Compound | Total Number of | | | | |
|---|---|---|---|---|---|
| | Samples Collected | Constituents | | Samples | |
| | | Analyzed[1] | Detected | Analyzed[2] | Detected |
| ***Surface Water*** | | | | | |
| Appendix IX Pesticides | 133 | 21 | 2 (9.5%) | 2,723 | 2 (< 0.1%) |
| Appendix IX SVOCs | 109 | 113 | 10 (8.8%) | 11,931 | 23 (0.2%) |
| Appendix IX VOCs | 32 | 52 | 7 (13.5%) | 1,544 | 51 (3.3%) |
| Dioxins/Furans | 133 | 25 | 25 (100%) | 3,325 | 831 (25%) |
| Herbicides | 105 | 3 | 1 (33.3%) | 313 | 2 (0.6%) |
| Metals | 109 | 19 | 19 (100%) | 2,007 | 423 (21.1%) |
| Filtered Metals | 101 | 19 | 15 (78.9%) | 1,853 | 335 (18.1%) |
| PAHs | 11 | 16 | 14 (87.5%) | 176 | 73 (41.5%) |
| ***Sediment*** | | | | | |
| **Channel Sediment** | | | | | |
| Appendix IX Pesticides | 190 | 21 | 9 (42.9%) | 3,473 | 24 (0.7%) |
| Appendix IX SVOCs | 220 | 113 | 41 (36.3%) | 20,159 | 3,180 (15.8%) |
| Dioxins/Furans | 221 | 25 | 25 (100%) | 5,091 | 4,460 (87.6%) |
| Herbicides | 37 | 3 | 0 (0%) | 93 | 0 (0%) |
| Inorganics | 225 | 4 | 4 (100%) | 377 | 106 (28.1%) |
| Metals | 218 | 17 | 17 (100%) | 3,319 | 2,524 (76%) |
| Mineral | 6 | 6 | 6 (100%) | 32 | 32 (100%) |
| **Backwaters** | | | | | |
| Appendix IX Pesticides | 190 | 21 | 2 (9.5%) | 255 | 2 (0.8%) |
| Appendix IX SVOCs | 220 | 113 | 25 (22.1%) | 1,597 | 154 (9.6%) |
| Dioxins/Furans | 221 | 25 | 25 (100%) | 425 | 396 (93.2%) |
| Herbicides | 37 | 3 | 1 (33.3%) | 18 | 1 (5.6%) |
| Inorganics | 225 | 2 | 1 (50%) | 27 | 7 (25.9%) |
| Metals | 218 | 17 | 17 (100%) | 276 | 242 (87.7%) |
| ***Floodplain*** | | | | | |
| **Floodplain and Riverbank Soil** | | | | | |
| Appendix IX Pesticides | 125 | 21 | 9 (42.9%) | 2,454 | 17 (0.7%) |
| Appendix IX SVOCs | 126 | 113 | 42 (37.2%) | 13,600 | 1,667 (12.3%) |
| Dioxins/Furans | 155 | 25 | 25 (100%) | 3,642 | 3,272 (89.8%) |
| Herbicides | 15 | 3 | 2 (66.7%) | 45 | 5 (11.1%) |
| Inorganics | 129 | 3 | 3 (100%) | 243 | 17 (7%) |
| Metals | 126 | 17 | 17 (100%) | 2,138 | 1,701 (79.6%) |
| **Vernal Pools** | | | | | |
| Appendix IX Pesticides | 25 | 35 | 28 (80%) | 637 | 159 (25%) |
| Appendix IX SVOCs | 19 | 113 | 29 (25.7%) | 2,005 | 246 (12.3%) |
| Dioxins/Furans | 26 | 25 | 25 (100%) | 769 | 599 (77.9%) |
| Inorganics | 18 | 2 | 1 (50%) | 36 | 1 (2.8%) |
| Metals | 25 | 22 | 22 (100%) | 425 | 355 (83.5%) |
| PAHs | 7 | 44 | 44 (100%) | 308 | 304 (98.7%) |

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# Table C-2
# Non-PCB Compound Analysis Summary

Notes:

1. Not all samples were analyzed for the full suite of non-PCB constituents.
2. Total number of samples analyzed does not include QC samples or rejected analyses.
3. Number in parentheses represents the percent of total detected.

# Table C-3
# Surface Water
# Summary of Detected PCDDs/PCDFs (pg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Holmes Road Bridge** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 40 | 2.6 | 30 | 81 | < 0 | ND | 776 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 47 | 2.4 | 5.4 | 10 | 0.76 | ND | 67 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 7 | 1.1 | 2.2 | 3.9 | 0.56 | ND | 26 |
| 1,2,3,4,7,8-HXCDD | 15 | 7 | 1.6 | 2.9 | 5.3 | 0.51 | ND | 38 |
| 1,2,3,4,7,8-HXCDF | 15 | 20 | 1.2 | 1.4 | 2.0 | 0.82 | ND | 9.0 |
| 1,2,3,6,7,8-HXCDD | 15 | 7 | 1.6 | 3.7 | 7.5 | < 0 | ND | 59 |
| 1,2,3,6,7,8-HXCDF | 15 | 33 | 1.5 | 2.1 | 3.0 | 1.2 | ND | 9.0 |
| 1,2,3,7,8,9-HXCDD | 15 | 7 | 1.5 | 3.5 | 7.3 | < 0 | ND | 59 |
| 1,2,3,7,8,9-HXCDF | 15 | 7 | 1.3 | 1.4 | 1.8 | 0.95 | ND | 5.6 |
| 1,2,3,7,8-PECDD | 15 | 7 | 1.1 | 1.6 | 2.5 | 0.74 | ND | 14 |
| 1,2,3,7,8-PECDF | 15 | 13 | 1.4 | 1.6 | 1.9 | 1.2 | ND | 2.4 |
| 2,3,4,6,7,8-HXCDF | 15 | 7 | 1.2 | 1.4 | 2.0 | 0.77 | ND | 9.5 |
| 2,3,7,8-TCDF | 15 | 7 | 1.0 | 1.1 | 1.3 | 0.85 | ND | 1.4 |
| HPCDD (TOTAL) | 15 | 33 | 2.5 | 72 | 203 | < 0 | ND | 1970 |
| HPCDF (TOTAL) | 15 | 40 | 2.2 | 11 | 26 | < 0 | ND | 221 |
| HXCDD (TOTAL) | 15 | 7 | 1.5 | 31 | 91 | < 0 | ND | 894 |
| HXCDF (TOTAL) | 15 | 47 | 1.7 | 13 | 24 | 2.1 | ND | 123 |
| OCDD | 15 | 47 | 7.5 | 108 | 276 | < 0 | ND | 2530 |
| OCDF | 15 | 13 | 2.5 | 10 | 23 | < 0 | ND | 198 |
| PECDD (TOTAL) | 15 | 7 | 1.4 | 6.2 | 16 | < 0 | ND | 146 |
| PECDF (TOTAL) | 15 | 67 | 13 | 21 | 31 | 9.7 | ND | 63 |
| TCDD (TOTAL) | 15 | 13 | 1.0 | 1.7 | 2.9 | 0.44 | ND | 10 |
| TCDF (TOTAL) | 15 | 73 | 17 | 24 | 37 | 11 | ND | 91 |
| WHO TEQs | 15 | 100 | 4.8 | 5.6 | 8.3 | 3.0 | 1.6 | 23 |

# Table C-3
# Surface Water
# Summary of Detected PCDDs/PCDFs (pg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Adjacent to Joseph Drive** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 27 | 2.7 | 5.9 | 12 | < 0 | ND | 51 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 47 | 3.3 | 4.1 | 6.5 | 1.8 | ND | 18 |
| 1,2,3,4,7,8-HXCDF | 15 | 20 | 1.2 | 1.4 | 1.8 | 1.0 | ND | 2.0 |
| 1,2,3,6,7,8-HXCDF | 15 | 33 | 1.7 | 3.8 | 7.4 | 0.19 | ND | 28 |
| 1,2,3,7,8-PECDF | 15 | 27 | 1.8 | 3.3 | 6.3 | 0.32 | ND | 24 |
| 2,3,4,6,7,8-HXCDF | 15 | 20 | 1.3 | 1.4 | 1.8 | 1.0 | ND | 1.7 |
| 2,3,4,7,8-PECDF | 15 | 20 | 1.5 | 1.9 | 2.5 | 1.4 | ND | 3.5 |
| 2,3,7,8-TCDD | 15 | 7 | 0.85 | 1.1 | 1.4 | 0.74 | ND | 2.5 |
| 2,3,7,8-TCDF | 15 | 27 | 1.3 | 2.2 | 3.9 | 0.53 | ND | 14 |
| HPCDD (TOTAL) | 15 | 27 | 2.7 | 7.2 | 15 | < 0 | ND | 63 |
| HPCDF (TOTAL) | 15 | 40 | 2.7 | 8.2 | 19 | < 0 | ND | 82 |
| HXCDF (TOTAL) | 15 | 53 | 3.8 | 33 | 73 | < 0 | ND | 300 |
| OCDD | 15 | 40 | 11 | 39 | 88 | < 0 | ND | 380 |
| OCDF | 15 | 20 | 3.2 | 6.4 | 11 | 1.6 | ND | 36 |
| PECDF (TOTAL) | 15 | 73 | 30 | 61 | 119 | 3.2 | ND | 449 |
| TCDD (TOTAL) | 15 | 20 | 0.90 | 1.6 | 2.7 | 0.64 | ND | 8.1 |
| TCDF (TOTAL) | 15 | 73 | 39 | 58 | 102 | 14 | ND | 334 |
| WHO TEQs | 15 | 100 | 4.5 | 5.3 | 7.0 | 3.7 | 2.0 | 15 |

# Table C-3
# Surface Water
# Summary of Detected PCDDs/PCDFs (pg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Pittsfield WWTP** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 14 | 36 | 3.2 | 11 | 22 | < 0 | ND | 70 |
| 1,2,3,4,6,7,8-HPCDF | 14 | 57 | 3.3 | 12 | 23 | 0.39 | ND | 63 |
| 1,2,3,4,7,8,9-HPCDF | 14 | 7 | 1.5 | 3.2 | 6.8 | < 0 | ND | 26 |
| 1,2,3,4,7,8-HXCDF | 14 | 29 | 1.3 | 2.0 | 3.3 | 0.79 | ND | 9.6 |
| 1,2,3,6,7,8-HXCDF | 14 | 43 | 1.9 | 4.5 | 8.5 | 0.56 | ND | 29 |
| 1,2,3,7,8-PECDF | 14 | 14 | 1.7 | 3.0 | 5.4 | 0.56 | ND | 18 |
| 2,3,4,6,7,8-HXCDF | 14 | 14 | 1.1 | 1.7 | 2.4 | 1.0 | ND | 3.5 |
| 2,3,4,7,8-PECDF | 14 | 7 | 1.6 | 2.1 | 3.0 | 1.2 | ND | 4.5 |
| 2,3,7,8-TCDF | 14 | 21 | 1.3 | 2.3 | 4.3 | 0.42 | ND | 15 |
| HPCDD (TOTAL) | 14 | 36 | 3.6 | 20 | 41 | < 0 | ND | 132 |
| HPCDF (TOTAL) | 14 | 57 | 3.3 | 16 | 33 | < 0 | ND | 110 |
| HXCDD (TOTAL) | 14 | 7 | 1.7 | 2.3 | 3.3 | 1.2 | ND | 8.4 |
| HXCDF (TOTAL) | 14 | 64 | 7.6 | 30 | 66 | < 0 | ND | 259 |
| OCDD | 14 | 64 | 21 | 56 | 117 | < 0 | ND | 430 |
| OCDF | 14 | 29 | 3.0 | 14 | 32 | < 0 | ND | 125 |
| PECDD (TOTAL) | 14 | 21 | 2.4 | 5.6 | 9.3 | 2.0 | ND | 23 |
| PECDF (TOTAL) | 14 | 71 | 26 | 51 | 105 | < 0 | ND | 389 |
| TCDD (TOTAL) | 14 | 14 | 0.98 | 1.6 | 2.4 | 0.79 | ND | 6.0 |
| TCDF (TOTAL) | 14 | 71 | 38 | 60 | 106 | 13 | ND | 337 |
| WHO TEQs | 14 | 100 | 5.0 | 6.4 | 8.8 | 4.1 | 2.2 | 17 |

# Table C-3
# Surface Water
# Summary of Detected PCDDs/PCDFs (pg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **New Lenox Road Bridge** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 47 | 3.8 | 12 | 25 | < 0 | ND | 104 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 47 | 3.6 | 6.3 | 9.8 | 2.8 | ND | 23 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 7 | 1.8 | 2.1 | 2.8 | 1.4 | ND | 1.8 |
| 1,2,3,4,7,8-HXCDD | 15 | 7 | 2.7 | 2.6 | 3.7 | 1.5 | ND | 2.7 |
| 1,2,3,4,7,8-HXCDF | 15 | 27 | 1.7 | 2.0 | 2.6 | 1.4 | ND | 3.8 |
| 1,2,3,6,7,8-HXCDD | 15 | 7 | 2.9 | 2.8 | 3.9 | 1.7 | ND | 4.5 |
| 1,2,3,6,7,8-HXCDF | 15 | 33 | 2.0 | 5.3 | 10 | 0.18 | ND | 40 |
| 1,2,3,7,8,9-HXCDD | 15 | 7 | 2.7 | 2.6 | 3.6 | 1.6 | ND | 4.5 |
| 1,2,3,7,8-PECDF | 15 | 33 | 2.3 | 4.7 | 8.9 | 0.48 | ND | 33 |
| 2,3,4,6,7,8-HXCDF | 15 | 20 | 1.9 | 2.0 | 2.7 | 1.4 | ND | 4.2 |
| 2,3,4,7,8-PECDF | 15 | 7 | 1.9 | 2.3 | 3.2 | 1.4 | ND | 6.6 |
| 2,3,7,8-TCDF | 15 | 33 | 1.7 | 3.1 | 5.6 | 0.62 | ND | 20 |
| HPCDD (TOTAL) | 15 | 40 | 6.6 | 21 | 45 | < 0 | ND | 189 |
| HPCDF (TOTAL) | 15 | 47 | 3.6 | 14 | 31 | < 0 | ND | 132 |
| HXCDD (TOTAL) | 15 | 7 | 2.7 | 3.0 | 4.4 | 1.6 | ND | 9.0 |
| HXCDF (TOTAL) | 15 | 67 | 8.2 | 45 | 99 | < 0 | ND | 413 |
| OCDD | 15 | 40 | 20 | 60 | 141 | < 0 | ND | 622 |
| OCDF | 15 | 40 | 5.5 | 11 | 21 | 1.4 | ND | 78 |
| PECDD (TOTAL) | 15 | 20 | 2.7 | 4.1 | 6.1 | 2.0 | ND | 13 |
| PECDF (TOTAL) | 15 | 80 | 28 | 92 | 185 | < 0 | ND | 725 |
| TCDD (TOTAL) | 15 | 33 | 1.6 | 2.2 | 3.1 | 1.3 | ND | 6.1 |
| TCDF (TOTAL) | 15 | 80 | 45 | 82 | 141 | 23 | ND | 430 |
| WHO TEQs | 15 | 100 | 5.9 | 6.8 | 9.2 | 4.5 | 2.3 | 19 |

# Table C-3
# Surface Water
# Summary of Detected PCDDs/PCDFs (pg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Woods Pond Headwaters** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 14 | 57 | 4.5 | 5.7 | 7.8 | 3.6 | ND | 14 |
| 1,2,3,4,6,7,8-HPCDF | 14 | 64 | 4.9 | 6.8 | 9.9 | 3.6 | ND | 24 |
| 1,2,3,4,7,8-HXCDF | 14 | 21 | 1.9 | 1.9 | 2.3 | 1.5 | ND | 3.1 |
| 1,2,3,6,7,8-HXCDF | 14 | 43 | 2.5 | 4.3 | 6.9 | 1.7 | ND | 19 |
| 1,2,3,7,8-PECDF | 14 | 21 | 2.7 | 3.6 | 5.2 | 1.9 | ND | 12 |
| 2,3,4,6,7,8-HXCDF | 14 | 21 | 1.9 | 1.9 | 2.3 | 1.5 | ND | 2.6 |
| 2,3,4,7,8-PECDF | 14 | 7 | 2.0 | 2.7 | 3.7 | 1.7 | ND | 6.7 |
| 2,3,7,8-TCDD | 14 | 7 | 0.88 | 1.3 | 1.8 | 0.84 | ND | 2.7 |
| 2,3,7,8-TCDF | 14 | 50 | 2.6 | 3.5 | 5.1 | 2.0 | ND | 12 |
| HPCDD (TOTAL) | 14 | 50 | 4.8 | 7.7 | 12 | 3.7 | ND | 28 |
| HPCDF (TOTAL) | 14 | 64 | 6.9 | 7.2 | 10 | 4.1 | ND | 24 |
| HXCDD (TOTAL) | 14 | 7 | 1.6 | 1.7 | 2.2 | 1.3 | ND | 2.2 |
| HXCDF (TOTAL) | 14 | 64 | 10 | 34 | 60 | 9.1 | ND | 161 |
| OCDD | 14 | 57 | 20 | 25 | 35 | 15 | ND | 73 |
| OCDF | 14 | 36 | 2.9 | 5.5 | 8.4 | 2.7 | ND | 20 |
| PECDD (TOTAL) | 14 | 14 | 1.9 | 2.6 | 4.0 | 1.3 | ND | 9.4 |
| PECDF (TOTAL) | 14 | 71 | 20 | 54 | 92 | 16 | ND | 244 |
| TCDD (TOTAL) | 14 | 29 | 1.4 | 1.8 | 2.5 | 1.1 | ND | 4.9 |
| TCDF (TOTAL) | 14 | 79 | 53 | 71 | 108 | 34 | ND | 216 |
| WHO TEQs | 14 | 100 | 5.6 | 6.5 | 8.1 | 4.8 | 2.8 | 12 |

# Table C-3
# Surface Water
# Summary of Detected PCDDs/PCDFs (pg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Above Woods Pond Dam** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 13 | 62 | 5.8 | 9.4 | 16 | 2.3 | ND | 50 |
| 1,2,3,4,6,7,8-HPCDF | 13 | 62 | 6.5 | 8.9 | 16 | 1.8 | ND | 50 |
| 1,2,3,4,7,8,9-HPCDF | 13 | 8 | 1.8 | 3.8 | 7.1 | 0.39 | ND | 23 |
| 1,2,3,4,7,8-HXCDD | 13 | 8 | 1.9 | 2.5 | 3.6 | 1.4 | ND | 7.0 |
| 1,2,3,4,7,8-HXCDF | 13 | 46 | 2.1 | 3.1 | 4.6 | 1.6 | ND | 11 |
| 1,2,3,6,7,8-HXCDD | 13 | 8 | 2.1 | 2.8 | 4.3 | 1.4 | ND | 9.6 |
| 1,2,3,6,7,8-HXCDF | 13 | 54 | 3.5 | 4.3 | 6.3 | 2.4 | ND | 13 |
| 1,2,3,7,8,9-HXCDD | 13 | 15 | 1.8 | 3.0 | 4.5 | 1.5 | ND | 8.9 |
| 1,2,3,7,8,9-HXCDF | 13 | 8 | 1.5 | 1.9 | 2.9 | 1.0 | ND | 5.0 |
| 1,2,3,7,8-PECDD | 13 | 8 | 1.7 | 1.9 | 2.6 | 1.2 | ND | 3.8 |
| 1,2,3,7,8-PECDF | 13 | 31 | 2.2 | 2.7 | 3.6 | 1.8 | ND | 5.1 |
| 2,3,4,6,7,8-HXCDF | 13 | 15 | 1.5 | 2.4 | 3.9 | 0.86 | ND | 11 |
| 2,3,4,7,8-PECDF | 13 | 31 | 2.4 | 3.2 | 4.3 | 2.1 | ND | 7.0 |
| 2,3,7,8-TCDF | 13 | 38 | 2.1 | 3.1 | 4.5 | 1.7 | ND | 10 |
| HPCDD (TOTAL) | 13 | 46 | 6.3 | 12 | 25 | < 0 | ND | 89 |
| HPCDF (TOTAL) | 13 | 54 | 5.3 | 13 | 28 | < 0 | ND | 102 |
| HXCDD (TOTAL) | 13 | 31 | 2.8 | 5.3 | 10 | 0.54 | ND | 33 |
| HXCDF (TOTAL) | 13 | 77 | 15 | 27 | 42 | 12 | ND | 79 |
| OCDD | 13 | 62 | 17 | 33 | 52 | 14 | ND | 112 |
| OCDF | 13 | 31 | 3.7 | 14 | 30 | < 0 | ND | 104 |
| PECDD (TOTAL) | 13 | 15 | 1.9 | 2.9 | 4.4 | 1.4 | ND | 9.9 |
| PECDF (TOTAL) | 13 | 77 | 42 | 50 | 75 | 25 | ND | 132 |
| TCDF (TOTAL) | 13 | 85 | 38 | 63 | 101 | 24 | ND | 230 |
| WHO TEQs | 13 | 100 | 6.0 | 7.4 | 9.5 | 5.3 | 3.2 | 15 |

# Table C-3
# Surface Water
# Summary of Detected PCDDs/PCDFs (pg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Schweitzer/Lenoxdale Bridge** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 14 | 50 | 4.2 | 5.1 | 7.3 | 3.0 | ND | 16 |
| 1,2,3,4,6,7,8-HPCDF | 14 | 64 | 4.0 | 5.3 | 7.2 | 3.4 | ND | 13 |
| 1,2,3,4,7,8-HXCDF | 14 | 21 | 1.6 | 1.5 | 1.9 | 1.2 | ND | 2.5 |
| 1,2,3,6,7,8-HXCDF | 14 | 36 | 2.1 | 3.3 | 5.0 | 1.6 | ND | 10 |
| 1,2,3,7,8-PECDF | 14 | 14 | 2.1 | 2.5 | 3.4 | 1.6 | ND | 5.3 |
| 2,3,4,6,7,8-HXCDF | 14 | 14 | 1.4 | 1.5 | 1.8 | 1.1 | ND | 1.8 |
| 2,3,4,7,8-PECDF | 14 | 7 | 1.6 | 2.3 | 3.1 | 1.5 | ND | 3.4 |
| 2,3,7,8-TCDF | 14 | 29 | 1.7 | 2.6 | 3.7 | 1.5 | ND | 7.8 |
| HPCDD (TOTAL) | 14 | 50 | 3.9 | 6.9 | 11 | 3.0 | ND | 29 |
| HPCDF (TOTAL) | 14 | 50 | 4.4 | 5.3 | 7.3 | 3.2 | ND | 15 |
| HXCDF (TOTAL) | 14 | 71 | 11 | 20 | 32 | 8.6 | ND | 59 |
| OCDD | 14 | 36 | 15 | 22 | 34 | 9.9 | ND | 94 |
| OCDF | 14 | 21 | 3.6 | 4.9 | 6.8 | 3.1 | ND | 5.8 |
| PECDD (TOTAL) | 14 | 14 | 2.4 | 3.1 | 4.7 | 1.4 | ND | 11 |
| PECDF (TOTAL) | 14 | 79 | 32 | 47 | 68 | 25 | ND | 125 |
| TCDD (TOTAL) | 14 | 7 | 1.1 | 1.6 | 2.6 | 0.67 | ND | 7.3 |
| TCDF (TOTAL) | 14 | 79 | 33 | 54 | 83 | 25 | ND | 167 |
| WHO TEQs | 14 | 100 | 4.6 | 5.9 | 7.5 | 4.2 | 2.5 | 13 |

# Table C-3
# Surface Water
# Summary of Detected PCDDs/PCDFs (pg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Discrete Sampling - Reach 5A** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 11 | 36 | 2.4 | 2.2 | 2.9 | 1.6 | ND | 5.3 |
| 1,2,3,4,6,7,8-HPCDF | 11 | 36 | 1.6 | 2.0 | 2.6 | 1.3 | ND | 4.4 |
| 1,2,3,4,7,8-HXCDF | 11 | 18 | 0.75 | 0.92 | 1.2 | 0.64 | ND | 2.2 |
| 1,2,3,7,8-PECDF | 11 | 9 | 0.72 | 1.3 | 2.1 | 0.40 | ND | 9.7 |
| 2,3,4,6,7,8-HXCDF | 11 | 9 | 0.72 | 0.89 | 1.2 | 0.60 | ND | 2.3 |
| 2,3,4,7,8-PECDF | 11 | 9 | 0.70 | 1.0 | 1.5 | 0.55 | ND | 3.0 |
| 2,3,7,8-TCDF | 11 | 18 | 1.4 | 2.0 | 2.8 | 1.2 | ND | 4.6 |
| HPCDD (TOTAL) | 11 | 27 | 1.7 | 2.5 | 3.7 | 1.4 | ND | 7.1 |
| HPCDF (TOTAL) | 11 | 18 | 1.1 | 1.8 | 2.6 | 1.0 | ND | 4.8 |
| HXCDF (TOTAL) | 11 | 27 | 0.93 | 1.5 | 2.4 | 0.56 | ND | 9.0 |
| PECDF (TOTAL) | 11 | 36 | 1.2 | 7.8 | 15 | 0.39 | ND | 39 |
| TCDF (TOTAL) | 11 | 36 | 1.5 | 15 | 32 | < 0 | ND | 83 |
| WHO TEQs | 11 | 100 | 4.0 | 4.3 | 5.6 | 2.9 | 2.0 | 9.9 |
| **Discrete Sampling - Reach 5B** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 8 | 88 | 4.4 | 5.4 | 8.4 | 2.4 | ND | 16 |
| 1,2,3,4,6,7,8-HPCDF | 8 | 88 | 3.5 | 5.3 | 8.6 | 2.0 | ND | 16 |
| 1,2,3,4,7,8-HXCDF | 8 | 50 | 1.6 | 4.5 | 11 | < 0 | ND | 26 |
| 1,2,3,7,8-PECDF | 8 | 25 | 2.1 | 3.2 | 5.5 | 0.86 | ND | 9.7 |
| 2,3,4,6,7,8-HXCDF | 8 | 13 | 0.90 | 1.8 | 3.0 | 0.60 | ND | 2.7 |
| 2,3,7,8-TCDF | 8 | 25 | 1.7 | 2.8 | 4.9 | 0.76 | ND | 9.6 |
| HPCDD (TOTAL) | 8 | 38 | 2.8 | 7.8 | 15 | 0.15 | ND | 33 |
| HPCDF (TOTAL) | 8 | 75 | 4.4 | 4.0 | 5.2 | 2.8 | ND | 5.9 |
| HXCDF (TOTAL) | 8 | 63 | 5.5 | 31 | 79 | < 0 | ND | 197 |
| OCDD | 8 | 13 | 15 | 22 | 39 | 4.5 | ND | 80 |
| OCDF | 8 | 38 | 4.9 | 5.0 | 6.9 | 3.1 | ND | 8.1 |
| PECDF (TOTAL) | 8 | 75 | 14 | 60 | 144 | < 0 | ND | 350 |
| TCDF (TOTAL) | 8 | 63 | 4.6 | 121 | 338 | < 0 | ND | 880 |
| WHO TEQs | 8 | 100 | 5.0 | 6.0 | 8.2 | 3.7 | 2.8 | 13 |

# Table C-3
# Surface Water
# Summary of Detected PCDDs/PCDFs (pg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Discrete Sampling - Reach 5C** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 14 | 36 | 2.6 | 14 | 33 | < 0 | ND | 136 |
| 1,2,3,4,6,7,8-HPCDF | 14 | 29 | 2.3 | 13 | 30 | < 0 | ND | 119 |
| 1,2,3,4,7,8,9-HPCDF | 14 | 7 | 2.3 | 2.4 | 3.2 | 1.6 | ND | 2.9 |
| 1,2,3,4,7,8-HXCDF | 14 | 14 | 1.3 | 6.2 | 15 | < 0 | ND | 66 |
| 1,2,3,6,7,8-HXCDD | 14 | 14 | 1.7 | 2.9 | 4.6 | 1.1 | ND | 14 |
| 1,2,3,6,7,8-HXCDF | 14 | 7 | 1.3 | 2.5 | 4.2 | 0.70 | ND | 10 |
| 1,2,3,7,8-PECDF | 14 | 14 | 1.2 | 16 | 41 | < 0 | ND | 180 |
| 2,3,4,6,7,8-HXCDF | 14 | 14 | 1.4 | 3.6 | 7.4 | < 0 | ND | 28 |
| 2,3,4,7,8-PECDF | 14 | 14 | 0.91 | 6.0 | 12 | 0.0094 | ND | 41 |
| 2,3,7,8-TCDF | 14 | 43 | 2.8 | 8.7 | 18 | < 0 | ND | 66 |
| HPCDD (TOTAL) | 14 | 36 | 2.6 | 26 | 62 | < 0 | ND | 260 |
| HPCDF (TOTAL) | 14 | 29 | 2.4 | 23 | 55 | < 0 | ND | 229 |
| HXCDD (TOTAL) | 14 | 14 | 1.6 | 3.8 | 6.5 | 1.0 | ND | 19 |
| HXCDF (TOTAL) | 14 | 50 | 5.5 | 39 | 87 | < 0 | ND | 338 |
| OCDD | 14 | 29 | 12 | 75 | 183 | < 0 | ND | 771 |
| OCDF | 14 | 21 | 5.5 | 10 | 19 | 1.8 | ND | 63 |
| PECDD (TOTAL) | 14 | 7 | 1.6 | 1.5 | 1.9 | 1.1 | ND | 1.4 |
| PECDF (TOTAL) | 14 | 50 | 4.2 | 47 | 96 | < 0 | ND | 316 |
| TCDF (TOTAL) | 14 | 50 | 19 | 104 | 223 | < 0 | ND | 811 |
| WHO TEQs | 14 | 100 | 5.3 | 11 | 20 | 1.5 | 1.5 | 71 |

Notes:

1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

**General Electric Company**
**Housatonic River - Rest of River**
**RFI Report**

# Table C-4
# Surface Water
# Summary of PAHs (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Dawes/Pomeroy Avenue Bridge** | | | | | | | | |
| **Holmes Road Bridge** | | | | | | | | |
| ACENAPHTHENE | 2 | 100 | 0.067 | 0.067 | NA | NA | 0.064 | 0.070 |
| ACENAPTHYLENE | 2 | 50 | 0.011 | 0.011 | NA | NA | ND | 0.011 |
| FLUORANTHENE | 2 | 100 | 0.025 | 0.025 | NA | NA | 0.021 | 0.028 |
| NAPHTHALENE | 2 | 100 | 0.083 | 0.083 | NA | NA | 0.056 | 0.11 |
| PHENANTHRENE | 2 | 100 | 0.018 | 0.018 | NA | NA | 0.017 | 0.018 |
| PYRENE | 2 | 100 | 0.037 | 0.037 | NA | NA | 0.037 | 0.037 |
| **Adjacent to Joseph Drive** | | | | | | | | |
| ACENAPHTHENE | 2 | 100 | 0.041 | 0.041 | NA | NA | 0.039 | 0.042 |
| BENZO(B)FLUORANTHENE | 2 | 50 | 0.011 | 0.011 | NA | NA | ND | 0.011 |
| FLUORANTHENE | 2 | 100 | 0.021 | 0.021 | NA | NA | 0.017 | 0.025 |
| FLUORENE | 2 | 100 | 0.010 | 0.010 | NA | NA | 0.010 | 0.010 |
| NAPHTHALENE | 2 | 100 | 0.039 | 0.039 | NA | NA | 0.031 | 0.047 |
| PHENANTHRENE | 2 | 100 | 0.013 | 0.013 | NA | NA | 0.012 | 0.013 |
| PYRENE | 2 | 100 | 0.028 | 0.028 | NA | NA | 0.025 | 0.030 |
| **Pittsfield WWTP** | | | | | | | | |
| ACENAPHTHENE | 1 | 100 | NA | 0.018 | NA | NA | NA | NA |
| FLUORANTHENE | 1 | 100 | NA | 0.015 | NA | NA | NA | NA |
| NAPHTHALENE | 1 | 100 | NA | 0.015 | NA | NA | NA | NA |
| PYRENE | 1 | 100 | NA | 0.020 | NA | NA | NA | NA |

# Table C-4
# Surface Water
# Summary of PAHs (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **New Lenox Road Bridge** | | | | | | | | |
| ACENAPHTHENE | 2 | 100 | 0.021 | 0.021 | NA | NA | 0.020 | 0.021 |
| BENZO(A)ANTHRACENE | 2 | 50 | 0.011 | 0.011 | NA | NA | ND | 0.011 |
| BENZO(A)PYRENE | 2 | 50 | 0.012 | 0.012 | NA | NA | ND | 0.014 |
| BENZO(B)FLUORANTHENE | 2 | 100 | 0.015 | 0.015 | NA | NA | 0.015 | 0.015 |
| BENZO(GHI)PERYLENE | 2 | 100 | 0.014 | 0.014 | NA | NA | 0.012 | 0.015 |
| BENZO(K)FLUORANTHENE | 2 | 50 | 0.011 | 0.011 | NA | NA | ND | 0.012 |
| CHRYSENE | 2 | 50 | 0.012 | 0.012 | NA | NA | ND | 0.013 |
| FLUORANTHENE | 2 | 100 | 0.026 | 0.026 | NA | NA | 0.019 | 0.032 |
| INDENO(1,2,3-C,D)PYRENE | 2 | 50 | 0.010 | 0.010 | NA | NA | ND | 0.010 |
| NAPHTHALENE | 2 | 100 | 0.020 | 0.020 | NA | NA | 0.016 | 0.024 |
| PHENANTHRENE | 2 | 100 | 0.013 | 0.013 | NA | NA | 0.010 | 0.016 |
| PYRENE | 2 | 100 | 0.033 | 0.033 | NA | NA | 0.027 | 0.038 |
| **Woods Pond Headwaters** | | | | | | | | |
| ACENAPHTHENE | 2 | 100 | 0.013 | 0.013 | NA | NA | 0.011 | 0.015 |
| BENZO(A)ANTHRACENE | 2 | 50 | 0.011 | 0.011 | NA | NA | ND | 0.012 |
| BENZO(A)PYRENE | 2 | 100 | 0.012 | 0.012 | NA | NA | 0.011 | 0.013 |
| BENZO(B)FLUORANTHENE | 2 | 100 | 0.019 | 0.019 | NA | NA | 0.017 | 0.021 |
| BENZO(GHI)PERYLENE | 2 | 50 | 0.011 | 0.011 | NA | NA | ND | 0.011 |
| CHRYSENE | 2 | 100 | 0.013 | 0.013 | NA | NA | 0.013 | 0.013 |
| FLUORANTHENE | 2 | 100 | 0.029 | 0.029 | NA | NA | 0.025 | 0.032 |
| INDENO(1,2,3-C,D)PYRENE | 2 | 50 | 0.012 | 0.012 | NA | NA | ND | 0.012 |
| NAPHTHALENE | 2 | 50 | 0.013 | 0.013 | NA | NA | ND | 0.015 |
| PHENANTHRENE | 2 | 100 | 0.014 | 0.014 | NA | NA | 0.013 | 0.014 |
| PYRENE | 2 | 100 | 0.035 | 0.035 | NA | NA | 0.032 | 0.037 |

# Table C-4
# Surface Water
# Summary of PAHs (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Above Woods Pond Dam** | | | | | | | | |
| BENZO(A)ANTHRACENE | 1 | 100 | NA | 0.010 | NA | NA | NA | NA |
| CHRYSENE | 1 | 100 | NA | 0.012 | NA | NA | NA | NA |
| FLUORANTHENE | 1 | 100 | NA | 0.027 | NA | NA | NA | NA |
| PHENANTHRENE | 1 | 100 | NA | 0.010 | NA | NA | NA | NA |
| PYRENE | 1 | 100 | NA | 0.027 | NA | NA | NA | NA |
| **Schweitzer/Lenoxdale Bridge** | | | | | | | | |
| CHRYSENE | 1 | 100 | NA | 0.010 | NA | NA | NA | NA |
| FLUORANTHENE | 1 | 100 | NA | 0.028 | NA | NA | NA | NA |
| PYRENE | 1 | 100 | NA | 0.032 | NA | NA | NA | NA |

Notes:

1. All EPA (1998) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

# Table C-5
## Surface Water
## Summary of Detected Metals (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Holmes Road Bridge** | | | | | | | | |
| ARSENIC | 15 | 7 | 1.5 | 1.9 | 2.3 | 1.4 | ND | 3.0 |
| BARIUM | 15 | 100 | 17 | 19 | 22 | 16 | 9.8 | 31 |
| CADMIUM | 15 | 7 | 0.15 | 0.23 | 0.30 | 0.16 | ND | 0.39 |
| CALCIUM | 10 | 100 | 33750 | 31405 | 37701 | 25109 | 12600 | 44600 |
| CHROMIUM | 15 | 13 | 0.65 | 0.66 | 0.80 | 0.51 | ND | 0.96 |
| COPPER | 15 | 13 | 1.1 | 1.1 | 1.4 | 0.84 | ND | 1.2 |
| LEAD | 15 | 13 | 1.0 | 1.4 | 2.3 | 0.47 | ND | 7.5 |
| MAGNESIUM | 10 | 100 | 12025 | 11598 | 14330 | 8865 | 4070 | 17600 |
| MERCURY | 15 | 13 | 0.050 | 0.055 | 0.063 | 0.048 | ND | 0.11 |
| NICKEL | 15 | 7 | 1.1 | 1.3 | 1.7 | 0.97 | ND | 4.4 |
| SELENIUM | 15 | 7 | 1.8 | 1.9 | 2.3 | 1.4 | ND | 4.5 |
| SILVER | 15 | 7 | 0.95 | 0.87 | 1.1 | 0.67 | ND | 1.3 |
| VANADIUM | 15 | 7 | 1.2 | 1.3 | 1.5 | 0.99 | ND | 3.5 |
| ZINC | 15 | 33 | 3.6 | 5.5 | 8.3 | 2.7 | ND | 23 |
| **Adjacent to Joseph Drive** | | | | | | | | |
| ARSENIC | 15 | 7 | 1.9 | 2.0 | 2.5 | 1.5 | ND | 3.5 |
| BARIUM | 15 | 100 | 18 | 19 | 22 | 16 | 12 | 29 |
| BERYLLIUM | 15 | 7 | 0.050 | 0.10 | 0.13 | 0.068 | ND | 0.15 |
| CADMIUM | 15 | 7 | 0.18 | 0.23 | 0.29 | 0.17 | ND | 0.30 |
| CALCIUM | 10 | 100 | 32800 | 31410 | 37148 | 25672 | 13100 | 41800 |
| CHROMIUM | 15 | 7 | 0.60 | 0.87 | 1.5 | 0.28 | ND | 4.9 |
| COBALT | 15 | 7 | 1.2 | 1.2 | 1.4 | 0.95 | ND | 2.3 |
| COPPER | 15 | 27 | 1.1 | 1.6 | 2.4 | 0.74 | ND | 6.7 |
| LEAD | 15 | 13 | 0.95 | 1.5 | 2.8 | 0.12 | ND | 11 |
| MAGNESIUM | 10 | 100 | 12000 | 12037 | 14514 | 9560 | 5680 | 17300 |
| MERCURY | 15 | 7 | 0.050 | 0.053 | 0.060 | 0.047 | ND | 0.10 |
| VANADIUM | 15 | 7 | 1.2 | 1.5 | 2.0 | 0.92 | ND | 4.9 |
| ZINC | 15 | 33 | 2.4 | 33 | 77 | < 0 | ND | 322 |

# Table C-5
# Surface Water
# Summary of Detected Metals (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Pittsfield WWTP** | | | | | | | | |
| BARIUM | 14 | 100 | 16 | 17 | 20 | 14 | 12 | 32 |
| CADMIUM | 14 | 7 | 0.15 | 0.21 | 0.28 | 0.15 | ND | 0.40 |
| CALCIUM | 10 | 100 | 33400 | 30670 | 35524 | 25816 | 14400 | 36900 |
| CHROMIUM | 14 | 7 | 0.55 | 0.97 | 1.8 | 0.13 | ND | 6.4 |
| COBALT | 14 | 7 | 1.1 | 1.2 | 1.5 | 0.89 | ND | 2.8 |
| COPPER | 14 | 64 | 2.6 | 3.9 | 5.5 | 2.3 | ND | 8.6 |
| LEAD | 14 | 14 | 0.83 | 1.9 | 3.8 | < 0 | ND | 14 |
| MAGNESIUM | 10 | 100 | 12100 | 11537 | 13419 | 9655 | 6320 | 14800 |
| MERCURY | 14 | 14 | 0.050 | 0.057 | 0.067 | 0.047 | ND | 0.10 |
| NICKEL | 14 | 7 | 1.1 | 1.4 | 1.9 | 0.92 | ND | 4.4 |
| SILVER | 14 | 7 | 0.65 | 0.89 | 1.2 | 0.55 | ND | 2.8 |
| THALLIUM | 14 | 7 | 1.8 | 2.0 | 2.5 | 1.5 | ND | 4.0 |
| VANADIUM | 14 | 7 | 1.2 | 1.5 | 2.1 | 0.80 | ND | 5.6 |
| ZINC | 14 | 43 | 7.0 | 19 | 38 | 0.12 | ND | 136 |
| **New Lenox Road Bridge** | | | | | | | | |
| ARSENIC | 15 | 7 | 1.5 | 2.0 | 2.5 | 1.5 | ND | 3.3 |
| BARIUM | 15 | 100 | 17 | 17 | 20 | 15 | 12 | 26 |
| BERYLLIUM | 15 | 7 | 0.050 | 0.097 | 0.13 | 0.066 | ND | 0.11 |
| CALCIUM | 10 | 100 | 33350 | 31240 | 36109 | 26371 | 16400 | 39400 |
| CHROMIUM | 15 | 20 | 0.50 | 1.1 | 1.8 | 0.36 | ND | 5.0 |
| COBALT | 15 | 7 | 1.2 | 1.2 | 1.4 | 0.96 | ND | 1.8 |
| COPPER | 15 | 53 | 1.8 | 2.7 | 3.7 | 1.6 | ND | 7.3 |
| LEAD | 15 | 13 | 1.0 | 1.6 | 2.9 | 0.34 | ND | 11 |
| MAGNESIUM | 10 | 100 | 11900 | 11827 | 13865 | 9789 | 6630 | 16100 |
| MERCURY | 15 | 7 | 0.050 | 0.053 | 0.060 | 0.047 | ND | 0.10 |
| SELENIUM | 15 | 7 | 1.8 | 1.8 | 2.1 | 1.5 | ND | 2.9 |
| SILVER | 15 | 7 | 0.60 | 0.91 | 1.2 | 0.59 | ND | 2.7 |
| VANADIUM | 15 | 7 | 1.2 | 1.4 | 1.9 | 0.95 | ND | 4.3 |
| ZINC | 15 | 33 | 5.2 | 15 | 31 | < 0 | ND | 122 |

# Table C-5
# Surface Water
# Summary of Detected Metals (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Woods Pond Headwaters** | | | | | | | | |
| BARIUM | 14 | 100 | 16 | 17 | 18 | 15 | 12 | 23 |
| CALCIUM | 9 | 100 | 32900 | 31600 | 36522 | 26678 | 19100 | 39800 |
| CHROMIUM | 14 | 14 | 0.55 | 0.86 | 1.4 | 0.31 | ND | 4.3 |
| COPPER | 14 | 71 | 2.0 | 2.5 | 3.3 | 1.6 | ND | 5.5 |
| MAGNESIUM | 9 | 100 | 11800 | 11651 | 13862 | 9441 | 6630 | 16000 |
| MERCURY | 14 | 21 | 0.050 | 0.071 | 0.096 | 0.046 | ND | 0.21 |
| ZINC | 14 | 21 | 4.9 | 8.6 | 15 | 1.9 | ND | 52 |
| **Above Woods Pond Dam** | | | | | | | | |
| BARIUM | 13 | 100 | 15 | 16 | 18 | 14 | 11 | 24 |
| CADMIUM | 13 | 8 | 0.15 | 0.21 | 0.27 | 0.15 | ND | 0.21 |
| CALCIUM | 9 | 100 | 31400 | 29533 | 33222 | 25845 | 18600 | 35600 |
| CHROMIUM | 13 | 15 | 0.45 | 0.64 | 0.85 | 0.42 | ND | 1.5 |
| COPPER | 13 | 54 | 1.6 | 2.1 | 3.0 | 1.3 | ND | 4.4 |
| MAGNESIUM | 9 | 100 | 11300 | 11252 | 13127 | 9377 | 6370 | 15200 |
| MERCURY | 13 | 8 | 0.050 | 0.054 | 0.062 | 0.046 | ND | 0.10 |
| SILVER | 13 | 8 | 0.80 | 0.92 | 1.3 | 0.57 | ND | 2.7 |
| THALLIUM | 13 | 8 | 1.8 | 2.1 | 2.6 | 1.5 | ND | 4.1 |
| ZINC | 13 | 23 | 4.4 | 72 | 204 | < 0 | ND | 860 |
| **Schweitzer/Lenoxdale Bridge** | | | | | | | | |
| ANTIMONY | 14 | 7 | 2.5 | 2.6 | 3.4 | 1.8 | ND | 5.2 |
| BARIUM | 14 | 100 | 14 | 16 | 18 | 14 | 12 | 22 |
| CADMIUM | 14 | 7 | 0.15 | 0.21 | 0.27 | 0.15 | ND | 0.30 |
| CALCIUM | 10 | 100 | 31300 | 30790 | 34258 | 27322.4 | 19200 | 36800 |
| CHROMIUM | 14 | 21 | 0.58 | 0.70 | 0.93 | 0.47 | ND | 1.7 |
| COPPER | 14 | 57 | 1.4 | 1.8 | 2.3 | 1.2 | ND | 4.2 |
| MAGNESIUM | 10 | 100 | 11100 | 11341 | 13179 | 9503 | 6540 | 15600 |
| MERCURY | 14 | 7 | 0.050 | 0.054 | 0.061 | 0.046 | ND | 0.10 |
| SELENIUM | 14 | 7 | 1.8 | 1.9 | 2.2 | 1.6 | ND | 3.3 |
| ZINC | 14 | 29 | 4.2 | 6.7 | 11 | 2.3 | ND | 35 |

# Table C-5
# Surface Water
# Summary of Detected Metals (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Discrete Sampling - Reach 5A** | | | | | | | | |
| BARIUM | 2 | 100 | 21 | 21 | NA | NA | 21 | 21 |
| CALCIUM | 2 | 100 | 38600 | 38600 | NA | NA | 38300 | 38900 |
| MAGNESIUM | 2 | 100 | 15700 | 15700 | NA | NA | 15500 | 15900 |
| MERCURY | 2 | 50 | 0.080 | 0.080 | NA | NA | ND | 0.11 |
| VANADIUM | 2 | 50 | 2.2 | 2.2 | NA | NA | ND | 3.0 |
| ZINC | 2 | 100 | 4.0 | 4.0 | NA | NA | 3.1 | 4.9 |
| **Discrete Sampling - Reach 5B** | | | | | | | | |
| BARIUM | 1 | 100 | NA | 14 | NA | NA | NA | NA |
| CALCIUM | 1 | 100 | NA | 17400 | NA | NA | NA | NA |
| COPPER | 1 | 100 | NA | 4.8 | NA | NA | NA | NA |
| LEAD | 1 | 100 | NA | 6.9 | NA | NA | NA | NA |
| MAGNESIUM | 1 | 100 | NA | 6490 | NA | NA | NA | NA |
| VANADIUM | 1 | 100 | NA | 1.6 | NA | NA | NA | NA |
| **Discrete Sampling - Reach 5C** | | | | | | | | |
| ARSENIC | 6 | 17 | 1.1 | 1.4 | 2.1 | 0.68 | ND | 3.1 |
| BARIUM | 6 | 67 | 12 | 13 | 18 | 7.8 | ND | 20 |
| CALCIUM | 6 | 100 | 31000 | 24658 | 36862 | 12455 | 1950 | 37500 |
| COPPER | 6 | 67 | 3.1 | 3.1 | 4.9 | 1.2 | ND | 5.7 |
| LEAD | 6 | 33 | 1.0 | 0.90 | 1.1 | 0.68 | ND | 1.1 |
| MAGNESIUM | 6 | 100 | 9465 | 8613 | 13132 | 4093 | 726 | 14400 |
| TIN | 6 | 17 | 1.4 | 1.5 | 1.9 | 1.2 | ND | 2.3 |
| VANADIUM | 6 | 50 | 1.7 | 2.1 | 3.2 | 0.95 | ND | 4.1 |
| ZINC | 6 | 50 | 8.1 | 8.4 | 13 | 3.9 | ND | 18 |

Notes:

1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

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# Table C-6
# Surface Water
# Summary of Detected Dissolved Metals (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Holmes Road Bridge** | | | | | | | | |
| BARIUM, DISSOLVED | 15 | 100 | 15 | 17 | 20 | 14 | 6.8 | 31 |
| BERYLLIUM, DISSOLVED | 15 | 7 | 0.098 | 0.10 | 0.13 | 0.070 | ND | 0.13 |
| CADMIUM, DISSOLVED | 15 | 7 | 0.15 | 0.22 | 0.29 | 0.16 | ND | 0.31 |
| CALCIUM, DISSOLVED | 10 | 100 | 31925 | 30395 | 36658 | 24132 | 11900 | 43000 |
| COBALT, DISSOLVED | 15 | 7 | 1.2 | 1.2 | 1.4 | 0.93 | ND | 2.2 |
| COPPER, DISSOLVED | 15 | 13 | 0.85 | 1.1 | 1.4 | 0.75 | ND | 3.0 |
| LEAD, DISSOLVED | 15 | 7 | 0.65 | 0.72 | 0.87 | 0.57 | ND | 1.1 |
| MAGNESIUM, DISSOLVED | 10 | 100 | 11155 | 11183 | 13924 | 8442 | 3810 | 16900 |
| MERCURY, DISSOLVED | 15 | 13 | 0.050 | 0.055 | 0.062 | 0.048 | ND | 0.10 |
| SELENIUM, DISSOLVED | 15 | 7 | 1.8 | 1.9 | 2.3 | 1.5 | ND | 4.0 |
| SILVER, DISSOLVED | 15 | 13 | 0.83 | 0.99 | 1.3 | 0.66 | ND | 2.9 |
| ZINC, DISSOLVED | 15 | 27 | 2.6 | 2.7 | 3.4 | 1.9 | ND | 5.7 |
| **Adjacent to Joseph Drive** | | | | | | | | |
| BARIUM, DISSOLVED | 15 | 100 | 15 | 17 | 20 | 14 | 7.6 | 32 |
| CALCIUM, DISSOLVED | 10 | 100 | 31950 | 30910 | 36968 | 24852 | 11200 | 42400 |
| CHROMIUM, DISSOLVED | 15 | 7 | 0.45 | 0.63 | 0.84 | 0.42 | ND | 1.7 |
| COBALT, DISSOLVED | 15 | 7 | 1.2 | 1.2 | 1.4 | 0.93 | ND | 2.2 |
| COPPER, DISSOLVED | 15 | 7 | 1.1 | 0.98 | 1.2 | 0.77 | ND | 1.1 |
| MAGNESIUM, DISSOLVED | 10 | 100 | 11650 | 11759 | 14463 | 9055 | 4120 | 17500 |
| MERCURY, DISSOLVED | 15 | 7 | 0.050 | 0.053 | 0.060 | 0.047 | ND | 0.10 |
| SILVER, DISSOLVED | 15 | 7 | 0.75 | 0.87 | 1.1 | 0.67 | ND | 1.5 |
| ZINC, DISSOLVED | 15 | 20 | 2.2 | 3.1 | 4.9 | 1.4 | ND | 15 |

# Table C-6
## Surface Water
## Summary of Detected Dissolved Metals (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Pittsfield WWTP** | | | | | | | | |
| BARIUM, DISSOLVED | 14 | 100 | 15 | 14 | 16 | 12 | 7.4 | 18 |
| CADMIUM, DISSOLVED | 14 | 7 | 0.18 | 0.21 | 0.27 | 0.16 | ND | 0.25 |
| CALCIUM, DISSOLVED | 10 | 100 | 33050 | 30280 | 35331 | 25229 | 11800 | 37000 |
| CHROMIUM, DISSOLVED | 14 | 7 | 0.55 | 0.54 | 0.63 | 0.46 | ND | 0.77 |
| COBALT, DISSOLVED | 14 | 7 | 1.1 | 1.2 | 1.4 | 0.87 | ND | 2.7 |
| COPPER, DISSOLVED | 14 | 36 | 1.3 | 2.6 | 4.1 | 1.2 | ND | 7.5 |
| MAGNESIUM, DISSOLVED | 10 | 100 | 12150 | 11339 | 13426 | 9252 | 4320 | 14900 |
| MERCURY, DISSOLVED | 14 | 7 | 0.050 | 0.054 | 0.061 | 0.046 | ND | 0.10 |
| ZINC, DISSOLVED | 14 | 29 | 3.6 | 4.8 | 6.6 | 3.0 | ND | 10 |
| **New Lenox Road Bridge** | | | | | | | | |
| BARIUM, DISSOLVED | 15 | 100 | 15 | 15 | 18 | 13 | 8.0 | 22 |
| BERYLLIUM, DISSOLVED | 15 | 13 | 0.10 | 0.14 | 0.22 | 0.053 | ND | 0.67 |
| CALCIUM, DISSOLVED | 10 | 100 | 33050 | 31190 | 36335 | 26045 | 15100 | 41400 |
| CHROMIUM, DISSOLVED | 15 | 13 | 0.45 | 0.73 | 1.2 | 0.30 | ND | 3.7 |
| COPPER, DISSOLVED | 15 | 53 | 1.3 | 2.9 | 5.1 | 0.72 | ND | 17 |
| MAGNESIUM, DISSOLVED | 10 | 100 | 12050 | 11695 | 13863 | 9527 | 5480 | 16200 |
| MERCURY, DISSOLVED | 15 | 13 | 0.050 | 0.062 | 0.080 | 0.044 | ND | 0.18 |
| ZINC, DISSOLVED | 15 | 27 | 4.0 | 5.4 | 8.8 | 1.9 | ND | 29 |

# Table C-6
## Surface Water
## Summary of Detected Dissolved Metals (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Woods Pond Headwaters** | | | | | | | | |
| BARIUM, DISSOLVED | 14 | 100 | 15 | 15 | 17 | 14 | 10 | 21 |
| BERYLLIUM, DISSOLVED | 14 | 7 | 0.078 | 0.10 | 0.13 | 0.068 | ND | 0.11 |
| CALCIUM, DISSOLVED | 9 | 100 | 33000 | 31244 | 36116 | 26372 | 18600 | 37800 |
| CHROMIUM, DISSOLVED | 14 | 21 | 0.45 | 0.86 | 1.4 | 0.35 | ND | 3.9 |
| COBALT, DISSOLVED | 14 | 7 | 1.2 | 1.2 | 1.4 | 0.95 | ND | 2.2 |
| COPPER, DISSOLVED | 14 | 43 | 1.5 | 1.9 | 2.7 | 1.1 | ND | 4.5 |
| LEAD, DISSOLVED | 14 | 7 | 0.80 | 0.77 | 0.93 | 0.61 | ND | 0.84 |
| MAGNESIUM, DISSOLVED | 9 | 100 | 11900 | 11540 | 13749 | 9331 | 6370 | 15300 |
| MERCURY, DISSOLVED | 14 | 7 | 0.050 | 0.054 | 0.061 | 0.046 | ND | 0.10 |
| SELENIUM, DISSOLVED | 14 | 7 | 1.7 | 1.8 | 2.2 | 1.4 | ND | 3.7 |
| ZINC, DISSOLVED | 14 | 21 | 3.5 | 4.0 | 5.1 | 2.9 | ND | 8.3 |
| **Above Woods Pond Dam** | | | | | | | | |
| BARIUM, DISSOLVED | 14 | 100 | 15 | 15 | 17 | 13 | 11 | 22 |
| CADMIUM, DISSOLVED | 14 | 7 | 0.18 | 0.23 | 0.30 | 0.17 | ND | 0.28 |
| CALCIUM, DISSOLVED | 9 | 100 | 30400 | 29600 | 33343 | 25857 | 18700 | 35700 |
| CHROMIUM, DISSOLVED | 14 | 7 | 0.52 | 0.71 | 1.1 | 0.32 | ND | 3.2 |
| COPPER, DISSOLVED | 14 | 36 | 1.4 | 1.6 | 2.2 | 1.0 | ND | 4.5 |
| LEAD, DISSOLVED | 14 | 7 | 0.78 | 0.76 | 0.93 | 0.59 | ND | 1.0 |
| MAGNESIUM, DISSOLVED | 9 | 100 | 10800 | 11258 | 13235 | 9281 | 6270 | 15400 |
| MERCURY, DISSOLVED | 14 | 7 | 0.050 | 0.054 | 0.061 | 0.046 | ND | 0.10 |
| NICKEL, DISSOLVED | 14 | 7 | 1.1 | 1.5 | 2.2 | 0.81 | ND | 5.7 |
| ZINC, DISSOLVED | 14 | 21 | 3.6 | 6.08 | 11 | 1.0 | ND | 38 |

# Table C-6
## Surface Water
## Summary of Detected Dissolved Metals (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Schweitzer/Lenoxdale Bridge** | | | | | | | | |
| ANTIMONY, DISSOLVED | 14 | 7 | 2.6 | 2.8 | 3.7 | 2.0 | ND | 6.2 |
| BARIUM, DISSOLVED | 14 | 100 | 14 | 15 | 17 | 13 | 10 | 23 |
| BERYLLIUM, DISSOLVED | 14 | 7 | 0.088 | 0.10 | 0.14 | 0.070 | ND | 0.11 |
| CALCIUM, DISSOLVED | 10 | 100 | 31000 | 30630 | 34013 | 27247 | 19200 | 36900 |
| CHROMIUM, DISSOLVED | 14 | 7 | 0.48 | 0.56 | 0.70 | 0.42 | ND | 1.4 |
| COPPER, DISSOLVED | 14 | 36 | 1.1 | 1.4 | 2.0 | 0.91 | ND | 3.8 |
| MAGNESIUM, DISSOLVED | 10 | 100 | 10950 | 11240 | 13067 | 9413 | 6430 | 15600 |
| MERCURY, DISSOLVED | 14 | 14 | 0.050 | 0.059 | 0.070 | 0.047 | ND | 0.12 |
| ZINC, DISSOLVED | 14 | 29 | 3.3 | 3.5 | 4.5 | 2.6 | ND | 6.8 |

Notes:
1. All EPA (1998-99) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

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# Table C-7
# Surface Water
# Summary of Detected Appendix IX VOCs (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Holmes Road Bridge** | | | | | | | | |
| ACETONE | 4 | 50 | 2.4 | 2.2 | 2.8 | 1.5 | ND | 2.7 |
| CHLOROBENZENE | 5 | 80 | 1.0 | 1.1 | 1.6 | 0.54 | ND | 1.9 |
| TRICHLOROETHYLENE (TCE) | 5 | 60 | 0.61 | 0.52 | 0.75 | 0.29 | ND | 0.77 |
| VINYL CHLORIDE | 5 | 60 | 0.54 | 0.53 | 0.79 | 0.27 | ND | 0.93 |
| **Adjacent to Joseph Drive** | | | | | | | | |
| ACETONE | 4 | 50 | 2.4 | 2.2 | 2.8 | 1.5 | ND | 2.7 |
| CHLOROBENZENE | 5 | 40 | 0.25 | 0.55 | 0.92 | 0.18 | ND | 1.1 |
| VINYL CHLORIDE | 5 | 20 | 0.25 | 0.27 | 0.32 | 0.23 | ND | 0.36 |
| **Pittsfield WWTP** | | | | | | | | |
| ACETONE | 3 | 33 | 2.2 | 2.5 | 4.3 | 0.79 | ND | 4.2 |
| BROMODICHLOROMETHANE | 4 | 50 | 0.40 | 1.1 | 2.5 | < 0 | ND | 3.2 |
| CHLOROBENZENE | 4 | 25 | 0.25 | 0.41 | 0.73 | 0.09 | ND | 0.89 |
| CHLOROFORM | 4 | 50 | 1.1 | 1.5 | 3.0 | < 0 | ND | 3.4 |
| DIBROMOCHLOROMETHANE | 4 | 25 | 0.25 | 0.69 | 1.6 | < 0 | ND | 2.0 |
| **New Lenox Road Bridge** | | | | | | | | |
| ACETONE | 3 | 33 | 2.6 | 2.5 | 3.9 | 1.1 | ND | 3.7 |
| BROMODICHLOROMETHANE | 5 | 40 | 0.25 | 0.70 | 1.4 | < 0 | ND | 2.1 |
| CHLOROBENZENE | 5 | 20 | 0.25 | 0.36 | 0.57 | 0.14 | ND | 0.78 |
| CHLOROFORM | 5 | 60 | 2.1 | 1.8 | 3.1 | 0.40 | ND | 3.8 |
| DIBROMOCHLOROMETHANE | 5 | 20 | 0.25 | 0.60 | 1.3 | < 0 | ND | 2.0 |
| **Woods Pond Headwaters** | | | | | | | | |
| ACETONE | 3 | 33 | 2.8 | 2.7 | 4.3 | 1.1 | ND | 4.0 |
| BROMODICHLOROMETHANE | 5 | 60 | 0.57 | 0.53 | 0.78 | 0.28 | ND | 0.87 |
| CHLOROBENZENE | 5 | 20 | 0.25 | 0.31 | 0.42 | 0.19 | ND | 0.54 |
| CHLOROFORM | 5 | 60 | 2.0 | 2.1 | 3.7 | 0.42 | ND | 4.1 |

# Table C-7
# Surface Water
# Summary of Detected Appendix IX VOCs (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Above Woods Pond Dam** | | | | | | | | |
| ACETONE | 2 | 50 | 3.2 | 3.2 | NA | NA | ND | 4.1 |
| BROMODICHLOROMETHANE | 4 | 50 | 0.40 | 0.51 | 0.86 | 0.16 | ND | 1.0 |
| CHLOROFORM | 4 | 50 | 0.83 | 1.0 | 2.0 | 0.07 | ND | 2.2 |
| DIBROMOCHLOROMETHANE | 4 | 25 | 0.25 | 0.44 | 0.81 | 0.06 | ND | 1.0 |
| **Schweitzer/Lenoxdale Bridge** | | | | | | | | |
| ACETONE | 2 | 50 | 3.0 | 3.0 | NA | NA | ND | 3.6 |
| BROMODICHLOROMETHANE | 4 | 25 | 0.25 | 0.37 | 0.62 | 0.13 | ND | 0.74 |
| CHLOROFORM | 4 | 50 | 0.73 | 0.83 | 1.5 | 0.14 | ND | 1.6 |
| DIBROMOCHLOROMETHANE | 4 | 25 | 0.25 | 0.37 | 0.62 | 0.13 | ND | 0.74 |

Notes:
1. All EPA (1998) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

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# Table C-8
# Surface Water
# Summary of Detected Appendix IX SVOCs (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Holmes Road Bridge** | | | | | | | | |
| 1,4-DICHLOROBENZENE | 15 | 7 | 5.0 | 5.7 | 6.9 | 4.5 | ND | 0.60 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 15 | 7 | 5.0 | 4.8 | 5.4 | 4.2 | ND | 14 |
| DIETHYL PHTHALATE | 15 | 13 | 5.0 | 4.5 | 5.3 | 3.6 | ND | 0.70 |
| **Adjacent to Joseph Drive** | | | | | | | | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 15 | 7 | 5.0 | 5.3 | 6.0 | 4.7 | ND | 10 |
| PYRENE | 15 | 7 | 5.0 | 4.7 | 5.3 | 4.1 | ND | 0.50 |
| **Pittsfield WWTP** | | | | | | | | |
| FLUORANTHENE | 14 | 7 | 5.0 | 4.7 | 5.4 | 4.1 | ND | 0.60 |
| PYRENE | 14 | 7 | 5.0 | 4.7 | 5.4 | 4.1 | ND | 0.60 |
| **New Lenox Road Bridge** | | | | | | | | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 15 | 7 | 5.0 | 4.7 | 5.3 | 4.2 | ND | 1.0 |
| CHRYSENE | 15 | 7 | 5.0 | 4.7 | 5.3 | 4.1 | ND | 0.50 |
| FLUORANTHENE | 15 | 7 | 5.0 | 4.7 | 5.3 | 4.2 | ND | 0.80 |
| PHENANTHRENE | 15 | 7 | 5.0 | 4.7 | 5.3 | 4.1 | ND | 0.60 |
| PYRENE | 15 | 7 | 5.0 | 4.7 | 5.3 | 4.2 | ND | 0.80 |
| **Woods Pond Headwaters** | | | | | | | | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 14 | 7 | 5.0 | 4.8 | 5.4 | 4.2 | ND | 120 |
| DIETHYL PHTHALATE | 14 | 14 | 5.0 | 13 | 29 | < 0 | ND | 0.90 |
| **Above Woods Pond Dam** | | | | | | | | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 13 | 8 | 5.0 | 4.7 | 5.4 | 4.1 | ND | 0.70 |
| **Schweitzer/Lenoxdale Bridge** | | | | | | | | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 14 | 7 | 5.0 | 6.5 | 8.6 | 4.3 | ND | 9.2 |
| DI-N-OCTYL PHTHALATE | 14 | 7 | 5.0 | 4.8 | 5.5 | 4.1 | ND | 0.50 |
| INDENO(1,2,3-C,D)PYRENE | 14 | 7 | 5.0 | 4.8 | 5.5 | 4.1 | ND | 0.50 |

# Table C-8
# Surface Water
# Summary of Detected Appendix IX SVOCs (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Discrete Sampling - Reach 5A** | | | | | | | | |
| ACETOPHENONE | 2 | 50 | 3.5 | 3.5 | NA | NA | ND | 2.0 |
| DIETHYL PHTHALATE | 2 | 50 | 2.9 | 2.9 | NA | NA | ND | 0.70 |
| **Discrete Sampling - Reach 5C** | | | | | | | | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 6 | 17 | 5.0 | 4.3 | 5.7 | 3.0 | ND | 1.0 |

Notes:
1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

# Table C-9
## Surface Water
## Summary of Detected Appendix IX Pesticides (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Pittsfield WWTP** | | | | | | | | |
| ENDOSULFAN I | 14 | 7 | 0.025 | 0.031 | 0.041 | 0.020 | ND | 0.10 |
| **Discrete Sampling - Reach 5C** | | | | | | | | |
| DELTA-BHC | 14 | 7 | 0.025 | 0.032 | 0.044 | 0.019 | ND | 0.11 |

Notes:
1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

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# Table C-10
# Surface Water
# Summary of Detected Herbicides (µg/L)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Pittsfield WWTP** | | | | | | | | |
| 2,4,5-T | 13 | 8 | 0.048 | 0.054 | 0.065 | 0.043 | ND | 0.12 |
| **Schweitzer/Lenoxdale Bridge** | | | | | | | | |
| 2,4,5-T | 14 | 7 | 0.048 | 0.058 | 0.077 | 0.039 | ND | 0.18 |

Notes:
1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

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# Table C-11
# Sediment
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 82 | 100 | 54 | 158 | 218 | 97 | 0.26 | 1886 |
| 1,2,3,4,6,7,8-HPCDF | 82 | 99 | 76 | 145 | 195 | 94 | ND | 1777 |
| 1,2,3,4,7,8,9-HPCDF | 82 | 96 | 15 | 25 | 35 | 15 | ND | 343 |
| 1,2,3,4,7,8-HXCDD | 82 | 90 | 1.1 | 2.9 | 3.9 | 1.8 | ND | 26 |
| 1,2,3,4,7,8-HXCDF | 82 | 100 | 31 | 41 | 51 | 30 | 0.14 | 353 |
| 1,2,3,6,7,8-HXCDD | 82 | 91 | 3.3 | 9.4 | 13 | 6.0 | ND | 83 |
| 1,2,3,6,7,8-HXCDF | 82 | 100 | 12 | 16 | 20 | 12 | 0.15 | 108 |
| 1,2,3,7,8,9-HXCDD | 82 | 89 | 1.8 | 5.6 | 7.7 | 3.5 | ND | 50 |
| 1,2,3,7,8,9-HXCDF | 82 | 93 | 4.3 | 6.2 | 7.7 | 4.6 | ND | 44 |
| 1,2,3,7,8-PECDD | 82 | 87 | 1.5 | 2.9 | 3.7 | 2.0 | ND | 22 |
| 1,2,3,7,8-PECDF | 82 | 99 | 14 | 21 | 28 | 14 | ND | 263 |
| 2,3,4,6,7,8-HXCDF | 82 | 96 | 12 | 19 | 23 | 15 | ND | 84 |
| 2,3,4,7,8-PECDF | 82 | 99 | 23 | 35 | 43 | 27 | ND | 209 |
| 2,3,7,8-TCDD | 82 | 83 | 0.79 | 1.2 | 1.6 | 0.80 | ND | 13 |
| 2,3,7,8-TCDF | 82 | 98 | 36 | 46 | 57 | 35 | ND | 331 |
| HPCDD (TOTAL) | 82 | 100 | 109 | 304 | 419 | 189 | 0.26 | 3633 |
| HPCDF (TOTAL) | 82 | 98 | 172 | 324 | 422 | 227 | ND | 3076 |
| HXCDD (TOTAL) | 82 | 89 | 27 | 86 | 120 | 52 | ND | 820 |
| HXCDF (TOTAL) | 82 | 99 | 166 | 274 | 336 | 211 | ND | 1389 |
| OCDD | 81 | 99 | 411 | 1074 | 1401 | 748 | ND | 6911 |
| OCDF | 82 | 98 | 148 | 234 | 316 | 152 | ND | 2933 |
| PECDD (TOTAL) | 82 | 87 | 7.2 | 23 | 33 | 12 | ND | 366 |
| PECDF (TOTAL) | 82 | 99 | 196 | 301 | 373 | 230 | ND | 2067 |
| TCDD (TOTAL) | 82 | 82 | 4.4 | 9.1 | 12 | 6.0 | ND | 84 |

# Table C-11
# Sediment
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| TCDF (TOTAL) | 82 | 99 | 205 | 277 | 343 | 211 | ND | 1707 |
| WHO TEQ | 82 | 100 | 28 | 41 | 49 | 32 | 0.31 | 213 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 20 | 95 | 37 | 57 | 89 | 26 | ND | 279 |
| 1,2,3,4,6,7,8-HPCDF | 20 | 95 | 38 | 56 | 84 | 28 | ND | 240 |
| 1,2,3,4,7,8,9-HPCDF | 20 | 70 | 3.1 | 4.8 | 7.0 | 2.6 | ND | 18 |
| 1,2,3,4,7,8-HXCDD | 20 | 60 | 0.58 | 0.96 | 1.4 | 0.48 | ND | 4.3 |
| 1,2,3,4,7,8-HXCDF | 20 | 85 | 7.6 | 14 | 22 | 6.6 | ND | 72 |
| 1,2,3,6,7,8-HXCDD | 20 | 65 | 1.9 | 3.1 | 4.8 | 1.4 | ND | 14 |
| 1,2,3,6,7,8-HXCDF | 20 | 85 | 7.2 | 8.6 | 12 | 4.7 | ND | 34 |
| 1,2,3,7,8,9-HXCDD | 20 | 65 | 1.1 | 1.8 | 2.8 | 0.80 | ND | 9.1 |
| 1,2,3,7,8,9-HXCDF | 20 | 60 | 1.6 | 2.3 | 3.5 | 1.1 | ND | 11 |
| 1,2,3,7,8-PECDD | 20 | 60 | 0.56 | 1.2 | 1.8 | 0.51 | ND | 5.8 |
| 1,2,3,7,8-PECDF | 20 | 85 | 6.9 | 12 | 19 | 5.8 | ND | 48 |
| 2,3,4,6,7,8-HXCDF | 20 | 85 | 4.6 | 8.0 | 12 | 3.9 | ND | 36 |
| 2,3,4,7,8-PECDF | 20 | 90 | 10 | 18 | 27 | 8.9 | ND | 77 |
| 2,3,7,8-TCDD | 20 | 65 | 0.41 | 0.68 | 1.1 | 0.28 | ND | 3.8 |
| 2,3,7,8-TCDF | 20 | 85 | 15 | 29 | 43 | 14 | ND | 104 |
| HPCDD (TOTAL) | 20 | 95 | 72 | 108 | 166 | 49 | ND | 501 |
| HPCDF (TOTAL) | 20 | 95 | 78 | 115 | 172 | 58 | ND | 468 |
| HXCDD (TOTAL) | 20 | 85 | 18 | 27 | 41 | 12 | ND | 109 |
| HXCDF (TOTAL) | 20 | 90 | 82 | 127 | 186 | 68 | ND | 453 |
| OCDD | 20 | 95 | 299 | 438 | 662 | 214 | ND | 1734 |
| OCDF | 20 | 90 | 38 | 64 | 97 | 30 | ND | 301 |
| PECDD (TOTAL) | 20 | 65 | 3.5 | 7.8 | 13 | 2.9 | ND | 44 |
| PECDF (TOTAL) | 20 | 90 | 155 | 170 | 243 | 97 | ND | 633 |

# Table C-11
# Sediment
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| TCDD (TOTAL) | 20 | 65 | 3.3 | 4.6 | 7.2 | 2.1 | ND | 21 |
| TCDF (TOTAL) | 20 | 90 | 142 | 208 | 304 | 112 | ND | 731 |
| WHO TEQ | 20 | 100 | 12 | 20 | 29 | 10 | 0.43 | 78 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 28 | 89 | 145 | 477 | 720 | 234 | ND | 2380 |
| 1,2,3,4,6,7,8-HPCDF | 28 | 89 | 110 | 739 | 1317 | 160 | ND | 7260 |
| 1,2,3,4,7,8,9-HPCDF | 28 | 86 | 9.0 | 35 | 59 | 10 | ND | 323 |
| 1,2,3,4,7,8-HXCDD | 28 | 68 | 2.2 | 8.7 | 14 | 2.9 | ND | 76 |
| 1,2,3,4,7,8-HXCDF | 28 | 86 | 34 | 81 | 133 | 28 | ND | 726 |
| 1,2,3,6,7,8-HXCDD | 28 | 71 | 5.1 | 26 | 42 | 10 | ND | 185 |
| 1,2,3,6,7,8-HXCDF | 28 | 86 | 18 | 38 | 65 | 12 | ND | 337 |
| 1,2,3,7,8,9-HXCDD | 28 | 71 | 3.3 | 15 | 23 | 6.3 | ND | 103 |
| 1,2,3,7,8,9-HXCDF | 28 | 75 | 4.8 | 13 | 24 | 2.7 | ND | 139 |
| 1,2,3,7,8-PECDD | 28 | 61 | 1.4 | 7.6 | 13 | 2.1 | ND | 71 |
| 1,2,3,7,8-PECDF | 28 | 86 | 26 | 65 | 136 | < 0 | ND | 1762 |
| 2,3,4,6,7,8-HXCDF | 28 | 86 | 21 | 65 | 114 | 15 | ND | 630 |
| 2,3,4,7,8-PECDF | 28 | 82 | 46 | 74 | 118 | 31 | ND | 504 |
| 2,3,7,8-TCDD | 28 | 64 | 0.69 | 1.8 | 2.8 | 0.86 | ND | 11 |
| 2,3,7,8-TCDF | 28 | 89 | 53 | 66 | 97 | 35 | ND | 407 |
| HPCDD (TOTAL) | 27 | 89 | 250 | 913 | 1406 | 421 | ND | 4766 |
| HPCDF (TOTAL) | 27 | 89 | 220 | 1378 | 2489 | 267 | ND | 13100 |
| HXCDD (TOTAL) | 27 | 85 | 40 | 215 | 353 | 77 | ND | 1619 |
| HXCDF (TOTAL) | 27 | 89 | 260 | 988 | 1692 | 283 | ND | 6915 |
| OCDD | 28 | 89 | 1300 | 3604 | 5482 | 1726 | ND | 20176 |
| OCDF | 28 | 86 | 130 | 545 | 900 | 189 | ND | 3650 |
| PECDD (TOTAL) | 27 | 78 | 11 | 56 | 105 | 7.2 | ND | 648 |

# Table C-11
# Sediment
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| PECDF (TOTAL) | 27 | 89 | 440 | 986 | 1608 | 364 | ND | 7308 |
| TCDD (TOTAL) | 27 | 81 | 9.2 | 24 | 39 | 8.7 | ND | 195 |
| TCDF (TOTAL) | 27 | 89 | 450 | 769 | 1177 | 361 | ND | 5035 |
| WHO TEQ | 28 | 100 | 46 | 94 | 149 | 39 | 0.45 | 662 |
| **Backwaters** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 17 | 100 | 154 | 387 | 608 | 165 | 6.1 | 1371 |
| 1,2,3,4,6,7,8-HPCDF | 17 | 100 | 250 | 423 | 637 | 209 | 9.4 | 1217 |
| 1,2,3,4,7,8,9-HPCDF | 17 | 82 | 12 | 23 | 34 | 11 | ND | 70 |
| 1,2,3,4,7,8-HXCDD | 17 | 76 | 2.5 | 6.3 | 10 | 2.7 | ND | 25 |
| 1,2,3,4,7,8-HXCDF | 17 | 100 | 39 | 68 | 107 | 28 | 0.92 | 311 |
| 1,2,3,6,7,8-HXCDD | 17 | 94 | 8.1 | 22 | 34 | 9.9 | ND | 73 |
| 1,2,3,6,7,8-HXCDF | 17 | 100 | 31 | 52 | 81 | 23 | 1.2 | 223 |
| 1,2,3,7,8,9-HXCDD | 17 | 94 | 5.0 | 14 | 21 | 6.1 | ND | 50 |
| 1,2,3,7,8,9-HXCDF | 17 | 82 | 8.9 | 15 | 24 | 6.6 | ND | 64 |
| 1,2,3,7,8-PECDD | 17 | 76 | 5.2 | 7.1 | 10 | 3.7 | ND | 22 |
| 1,2,3,7,8-PECDF | 17 | 100 | 42 | 78 | 133 | 24 | 1.0 | 457 |
| 2,3,4,6,7,8-HXCDF | 17 | 100 | 29 | 59 | 91 | 27 | 0.82 | 230 |
| 2,3,4,7,8-PECDF | 17 | 100 | 54 | 124 | 191 | 56 | 1.8 | 495 |
| 2,3,7,8-TCDD | 17 | 76 | 1.3 | 2.7 | 4.1 | 1.2 | ND | 12 |
| 2,3,7,8-TCDF | 17 | 100 | 85 | 164 | 270 | 59 | 2.7 | 855 |
| HPCDD (TOTAL) | 17 | 100 | 283 | 743 | 1174 | 312 | 6.3 | 2652 |
| HPCDF (TOTAL) | 17 | 100 | 310 | 803 | 1220 | 386 | 16 | 2320 |
| HXCDD (TOTAL) | 17 | 100 | 66 | 170 | 266 | 74 | 2.6 | 605 |
| HXCDF (TOTAL) | 17 | 100 | 340 | 813 | 1264 | 362 | 10 | 2940 |
| OCDD | 17 | 100 | 1100 | 2799 | 4445 | 1153 | 40 | 10082 |
| OCDF | 17 | 100 | 173 | 331 | 508 | 154 | 4.6 | 1038 |

# Table C-11
# Sediment
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| PECDD (TOTAL) | 17 | 76 | 14 | 45 | 70 | 21 | ND | 133 |
| PECDF (TOTAL) | 17 | 100 | 653 | 1339 | 2093 | 585 | 17 | 5546 |
| TCDD (TOTAL) | 17 | 71 | 6.8 | 13 | 22 | 5.1 | ND | 65 |
| TCDF (TOTAL) | 17 | 100 | 800 | 1599 | 2585 | 613 | 28 | 7105 |
| WHO TEQ | 17 | 100 | 54 | 124 | 193 | 56 | 2.0 | 513 |
| **Reach 6 - Woods Pond** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 42 | 98 | 39 | 1210 | 1962 | 458 | ND | 10834 |
| 1,2,3,4,6,7,8-HPCDF | 42 | 88 | 40 | 1281 | 2189 | 372 | ND | 15378 |
| 1,2,3,4,7,8,9-HPCDF | 42 | 55 | 1.7 | 57 | 91 | 23 | ND | 508 |
| 1,2,3,4,7,8-HXCDD | 42 | 48 | 0.75 | 19 | 31 | 7.4 | ND | 180 |
| 1,2,3,4,7,8-HXCDF | 42 | 81 | 6.7 | 140 | 221 | 60 | ND | 1043 |
| 1,2,3,6,7,8-HXCDD | 42 | 74 | 3.2 | 65 | 105 | 25 | ND | 557 |
| 1,2,3,6,7,8-HXCDF | 42 | 83 | 5.3 | 105 | 167 | 43 | ND | 919 |
| 1,2,3,7,8,9-HXCDD | 42 | 71 | 1.9 | 41 | 67 | 15 | ND | 406 |
| 1,2,3,7,8,9-HXCDF | 42 | 57 | 0.97 | 27 | 43 | 11 | ND | 227 |
| 1,2,3,7,8-PECDD | 42 | 67 | 2.6 | 15 | 23 | 6.5 | ND | 113 |
| 1,2,3,7,8-PECDF | 42 | 81 | 7.5 | 82 | 131 | 34 | ND | 621 |
| 2,3,4,6,7,8-HXCDF | 42 | 79 | 5.8 | 128 | 202 | 53 | ND | 981 |
| 2,3,4,7,8-PECDF | 42 | 83 | 13 | 155 | 237 | 72 | ND | 1020 |
| 2,3,7,8-TCDD | 42 | 55 | 0.55 | 4.5 | 6.9 | 2.2 | ND | 27 |
| 2,3,7,8-TCDF | 42 | 93 | 18 | 200 | 318 | 83 | ND | 1490 |
| HPCDD (TOTAL) | 42 | 88 | 77 | 2292 | 3725 | 860 | ND | 21205 |
| HPCDF (TOTAL) | 42 | 88 | 74 | 2519 | 4275 | 764 | ND | 29598 |
| HXCDD (TOTAL) | 42 | 79 | 22 | 545 | 877 | 213 | ND | 4685 |
| HXCDF (TOTAL) | 42 | 74 | 79 | 1938 | 3111 | 764 | ND | 17300 |
| OCDD | 42 | 100 | 288 | 7585 | 12155 | 3015 | 1.0 | 64240 |

# Table C-11
# Sediment
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| OCDF | 42 | 79 | 31 | 1003 | 1684 | 322 | ND | 11598 |
| PECDD (TOTAL) | 42 | 55 | 1.9 | 89 | 142 | 37 | ND | 584 |
| PECDF (TOTAL) | 42 | 79 | 127 | 2068 | 3205 | 930 | ND | 13139 |
| TCDD (TOTAL) | 42 | 55 | 0.70 | 37 | 63 | 11 | ND | 467 |
| TCDF (TOTAL) | 42 | 88 | 168 | 2234 | 3512 | 955 | ND | 14657 |
| WHO TEQ | 42 | 100 | 15 | 199 | 306 | 92 | 0.19 | 1133 |
| **Reach 8 - Rising Pond** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 30 | 100 | 845 | 1638 | 2314 | 963 | 16 | 5646 |
| 1,2,3,4,6,7,8-HPCDF | 30 | 100 | 244 | 1110 | 1842 | 379 | 7.0 | 8060 |
| 1,2,3,4,7,8,9-HPCDF | 30 | 90 | 22 | 42 | 60 | 24 | ND | 163 |
| 1,2,3,4,7,8-HXCDD | 30 | 83 | 8.1 | 16 | 23 | 9.6 | ND | 61 |
| 1,2,3,4,7,8-HXCDF | 30 | 100 | 41 | 80 | 126 | 34 | 3.4 | 927 |
| 1,2,3,6,7,8-HXCDD | 30 | 87 | 54 | 101 | 145 | 58 | ND | 354 |
| 1,2,3,6,7,8-HXCDF | 30 | 100 | 26 | 82 | 127 | 36 | 1.9 | 591 |
| 1,2,3,7,8,9-HXCDD | 30 | 87 | 19 | 39 | 56 | 23 | ND | 169 |
| 1,2,3,7,8,9-HXCDF | 30 | 87 | 8.5 | 17 | 25 | 8.6 | ND | 146 |
| 1,2,3,7,8-PECDD | 30 | 83 | 7.4 | 11 | 15 | 7.1 | ND | 39 |
| 1,2,3,7,8-PECDF | 30 | 100 | 22 | 82 | 163 | 0.66 | 4.2 | 1661 |
| 2,3,4,6,7,8-HXCDF | 30 | 97 | 39 | 75 | 107 | 42 | ND | 396 |
| 2,3,4,7,8-PECDF | 30 | 100 | 69 | 104 | 155 | 54 | 5.4 | 1003 |
| 2,3,7,8-TCDD | 30 | 77 | 2.6 | 3.8 | 5.4 | 2.3 | ND | 29 |
| 2,3,7,8-TCDF | 30 | 100 | 75 | 146 | 240 | 53 | 12 | 1866 |
| HPCDD (TOTAL) | 30 | 100 | 1692 | 3984 | 5664 | 2303 | 37 | 14194 |
| HPCDF (TOTAL) | 30 | 100 | 700 | 2693 | 4308 | 1079 | 15 | 17574 |
| HXCDD (TOTAL) | 30 | 97 | 339 | 865 | 1250 | 480 | ND | 3547 |
| HXCDF (TOTAL) | 30 | 100 | 576 | 1459 | 2232 | 685 | 10 | 8499 |

# Table C-11
# Sediment
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| OCDD | 30 | 100 | 7646 | 15091 | 21301 | 8881 | 112 | 48080 |
| OCDF | 30 | 100 | 389 | 1127 | 1701 | 553 | 11 | 5546 |
| PECDD (TOTAL) | 30 | 87 | 82 | 136 | 194 | 78 | ND | 629 |
| PECDF (TOTAL) | 30 | 100 | 884 | 1375 | 1998 | 753 | 16 | 11688 |
| TCDD (TOTAL) | 30 | 83 | 15 | 45 | 84 | 5.9 | ND | 574 |
| TCDF (TOTAL) | 30 | 100 | 1021 | 1390 | 2060 | 720 | 33 | 13464 |
| WHO TEQ | 30 | 100 | 95 | 156 | 219 | 94 | 7.6 | 800 |
| **Reach 9 - Rising Pond Dam to Connecticut Border** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 2 | 100 | 25 | 25 | NA | NA | 8.2 | 42 |
| 1,2,3,4,6,7,8-HPCDF | 2 | 100 | 9.7 | 9.7 | NA | NA | 5.0 | 14 |
| 1,2,3,4,7,8,9-HPCDF | 2 | 100 | 0.41 | 0.41 | NA | NA | 0.31 | 0.50 |
| 1,2,3,4,7,8-HXCDD | 2 | 50 | 0.17 | 0.17 | NA | NA | ND | 0.13 |
| 1,2,3,4,7,8-HXCDF | 2 | 100 | 0.82 | 0.82 | NA | NA | 0.50 | 1.1 |
| 1,2,3,6,7,8-HXCDD | 2 | 100 | 1.0 | 1.0 | NA | NA | 0.51 | 1.5 |
| 1,2,3,6,7,8-HXCDF | 2 | 100 | 0.55 | 0.55 | NA | NA | 0.35 | 0.76 |
| 1,2,3,7,8,9-HXCDD | 2 | 100 | 0.43 | 0.43 | NA | NA | 0.27 | 0.59 |
| 1,2,3,7,8,9-HXCDF | 2 | 50 | 0.13 | 0.13 | NA | NA | ND | 0.10 |
| 1,2,3,7,8-PECDD | 2 | 50 | 0.083 | 0.083 | NA | NA | ND | 0.091 |
| 1,2,3,7,8-PECDF | 2 | 100 | 1.1 | 1.1 | NA | NA | 0.67 | 1.5 |
| 2,3,4,6,7,8-HXCDF | 2 | 100 | 0.74 | 0.74 | NA | NA | 0.40 | 1.1 |
| 2,3,4,7,8-PECDF | 2 | 100 | 2.3 | 2.3 | NA | NA | 1.0 | 3.6 |
| 2,3,7,8-TCDD | 2 | 100 | 0.15 | 0.15 | NA | NA | 0.061 | 0.24 |
| 2,3,7,8-TCDF | 2 | 100 | 2.7 | 2.7 | NA | NA | 1.9 | 3.5 |
| HPCDD (TOTAL) | 2 | 100 | 50 | 50 | NA | NA | 16 | 84 |
| HPCDF (TOTAL) | 2 | 100 | 23 | 23 | NA | NA | 14 | 31 |
| HXCDD (TOTAL) | 2 | 100 | 6.5 | 6.5 | NA | NA | 2.7 | 10 |

# Table C-11
# Sediment
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| HXCDF (TOTAL) | 2 | 100 | 11 | 11 | NA | NA | 6.5 | 16 |
| OCDD | 2 | 100 | 147 | 147 | NA | NA | 52 | 241 |
| OCDF | 2 | 100 | 7.2 | 7.2 | NA | NA | 3.2 | 11 |
| PECDD (TOTAL) | 2 | 100 | 0.76 | 0.76 | NA | NA | 0.42 | 1.1 |
| PECDF (TOTAL) | 2 | 100 | 24 | 24 | NA | NA | 11 | 37 |
| TCDD (TOTAL) | 2 | 100 | 0.43 | 0.43 | NA | NA | 0.17 | 0.69 |
| TCDF (TOTAL) | 2 | 100 | 26 | 26 | NA | NA | 16 | 36 |
| WHO TEQ | 2 | 100 | 2.5 | 2.5 | NA | NA | 1.2 | 3.7 |

Notes:

1. All EPA (1998-02) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

# Table C-12
# Sediment
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 1,2,4,5-TETRACHLOROBENZENE | 81 | 17 | 0.23 | 0.29 | 0.35 | 0.22 | ND | 0.44 |
| 1,2,4-TRICHLOROBENZENE | 81 | 48 | 0.19 | 0.24 | 0.31 | 0.16 | ND | 0.55 |
| 1,2-DICHLOROBENZENE | 81 | 1 | 0.23 | 0.31 | 0.38 | 0.24 | ND | 0.024 |
| 1,3-DICHLOROBENZENE | 81 | 26 | 0.22 | 0.27 | 0.34 | 0.20 | ND | 0.42 |
| 1,4-DICHLOROBENZENE | 81 | 81 | 0.11 | 0.19 | 0.25 | 0.14 | ND | 1.2 |
| 2,6-DICHLOROPHENOL | 81 | 1 | 0.23 | 0.31 | 0.38 | 0.25 | ND | 0.41 |
| 2-METHYLNAPHTHALENE | 81 | 86 | 0.087 | 0.21 | 0.30 | 0.13 | ND | 1.2 |
| 2-METHYLPHENOL (O-CRESOL) | 81 | 1 | 0.23 | 0.31 | 0.38 | 0.24 | ND | 0.023 |
| 4-METHYLPHENOL | 81 | 12 | 0.22 | 0.29 | 0.36 | 0.22 | ND | 0.14 |
| ACENAPHTHENE | 81 | 88 | 0.12 | 0.24 | 0.33 | 0.16 | ND | 2.6 |
| ACENAPTHYLENE | 81 | 91 | 0.12 | 0.24 | 0.32 | 0.15 | ND | 2.3 |
| ACETOPHENONE | 81 | 1 | 0.23 | 0.30 | 0.37 | 0.24 | ND | 0.023 |
| ANILINE | 69 | 1 | 0.60 | 0.80 | 1.0 | 0.60 | ND | 0.61 |
| ANTHRACENE | 81 | 95 | 0.37 | 0.96 | 1.4 | 0.54 | ND | 11 |
| BENZO(A)ANTHRACENE | 81 | 98 | 0.96 | 2.0 | 2.6 | 1.3 | ND | 15 |
| BENZO(A)PYRENE | 81 | 98 | 0.94 | 1.6 | 2.0 | 1.2 | ND | 12 |
| BENZO(B)FLUORANTHENE | 81 | 98 | 0.85 | 1.4 | 1.8 | 0.99 | ND | 14 |
| BENZO(GHI)PERYLENE | 81 | 98 | 0.39 | 0.67 | 0.85 | 0.48 | ND | 4.7 |
| BENZO(K)FLUORANTHENE | 81 | 96 | 0.97 | 1.6 | 2.0 | 1.1 | ND | 11 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 81 | 69 | 0.12 | 0.17 | 0.21 | 0.13 | ND | 0.46 |
| BUTYLBENZYLPHTHALATE | 81 | 5 | 0.23 | 0.30 | 0.37 | 0.23 | ND | 0.062 |
| CHRYSENE | 81 | 98 | 1.0 | 1.9 | 2.4 | 1.3 | ND | 14 |
| DIBENZO(A,H)ANTHRACENE | 81 | 95 | 0.14 | 0.24 | 0.32 | 0.16 | ND | 2.3 |
| DIBENZOFURAN | 81 | 83 | 0.12 | 0.27 | 0.38 | 0.16 | ND | 3.0 |
| DI-N-BUTYL PHTHALATE | 81 | 7 | 0.23 | 0.30 | 0.37 | 0.23 | ND | 0.32 |

# Table C-12
# Sediment
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| FLUORANTHENE | 81 | 98 | 2.0 | 3.6 | 4.8 | 2.4 | ND | 39 |
| FLUORENE | 81 | 91 | 0.20 | 0.44 | 0.61 | 0.27 | ND | 4.1 |
| INDENO(1,2,3-C,D)PYRENE | 81 | 98 | 0.40 | 0.71 | 0.92 | 0.51 | ND | 4.9 |
| NAPHTHALENE | 81 | 96 | 0.17 | 0.33 | 0.48 | 0.19 | ND | 4.7 |
| N-NITROSO-DI-N-BUTYLAMINE | 81 | 2 | 0.23 | 0.30 | 0.37 | 0.24 | ND | 0.056 |
| N-NITROSO-DI-N-PROPYLAMINE | 81 | 1 | 0.23 | 0.31 | 0.38 | 0.25 | ND | 0.48 |
| PENTACHLOROBENZENE | 81 | 46 | 0.20 | 0.24 | 0.31 | 0.17 | ND | 0.58 |
| PENTACHLORONITROBENZENE | 81 | 1 | 0.23 | 0.31 | 0.38 | 0.25 | ND | 0.39 |
| PHENANTHRENE | 81 | 98 | 1.3 | 3.1 | 4.4 | 1.8 | ND | 42 |
| PHENOL | 81 | 7 | 0.23 | 0.30 | 0.36 | 0.23 | ND | 0.58 |
| PYRENE | 81 | 98 | 1.9 | 3.4 | 4.5 | 2.4 | ND | 32 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 20 | 5 | 0.23 | 0.23 | 0.25 | 0.21 | ND | 0.056 |
| 1,2-DICHLOROBENZENE | 20 | 5 | 0.23 | 0.22 | 0.25 | 0.20 | ND | 0.043 |
| 1,3-DICHLOROBENZENE | 20 | 5 | 0.23 | 0.23 | 0.25 | 0.21 | ND | 0.048 |
| 1,4-DICHLOROBENZENE | 20 | 45 | 0.21 | 0.16 | 0.21 | 0.12 | ND | 0.22 |
| 2-METHYLNAPHTHALENE | 20 | 45 | 0.21 | 0.16 | 0.20 | 0.11 | ND | 0.26 |
| ACENAPHTHENE | 20 | 35 | 0.22 | 0.19 | 0.25 | 0.14 | ND | 0.53 |
| ACENAPTHYLENE | 20 | 45 | 0.21 | 0.16 | 0.19 | 0.12 | ND | 0.14 |
| ACETOPHENONE | 20 | 5 | 0.23 | 0.22 | 0.25 | 0.20 | ND | 0.039 |
| ANTHRACENE | 20 | 55 | 0.21 | 0.21 | 0.29 | 0.13 | ND | 0.85 |
| BENZO(A)ANTHRACENE | 20 | 80 | 0.24 | 0.35 | 0.52 | 0.17 | ND | 1.8 |
| BENZO(A)PYRENE | 20 | 75 | 0.25 | 0.33 | 0.47 | 0.19 | ND | 1.5 |
| BENZO(B)FLUORANTHENE | 20 | 75 | 0.24 | 0.31 | 0.48 | 0.14 | ND | 1.8 |
| BENZO(GHI)PERYLENE | 20 | 75 | 0.18 | 0.19 | 0.24 | 0.13 | ND | 0.54 |
| BENZO(K)FLUORANTHENE | 20 | 75 | 0.25 | 0.36 | 0.53 | 0.19 | ND | 1.8 |

# Table C-12
# Sediment
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| BIS(2-ETHYLHEXYL) PHTHALATE | 20 | 50 | 0.17 | 0.15 | 0.19 | 0.10 | ND | 0.14 |
| BUTYLBENZYLPHTHALATE | 20 | 5 | 0.23 | 0.23 | 0.25 | 0.20 | ND | 0.047 |
| CHRYSENE | 20 | 80 | 0.24 | 0.37 | 0.56 | 0.19 | ND | 1.9 |
| DIBENZO(A,H)ANTHRACENE | 20 | 60 | 0.068 | 0.13 | 0.17 | 0.085 | ND | 0.22 |
| DIBENZOFURAN | 20 | 40 | 0.22 | 0.17 | 0.21 | 0.12 | ND | 0.29 |
| DIETHYL PHTHALATE | 20 | 5 | 0.23 | 0.23 | 0.25 | 0.20 | ND | 0.050 |
| DI-N-BUTYL PHTHALATE | 20 | 5 | 0.23 | 0.23 | 0.25 | 0.22 | ND | 0.16 |
| FLUORANTHENE | 20 | 85 | 0.24 | 0.59 | 0.96 | 0.23 | ND | 3.6 |
| FLUORENE | 20 | 50 | 0.21 | 0.18 | 0.23 | 0.13 | ND | 0.53 |
| INDENO(1,2,3-C,D)PYRENE | 20 | 80 | 0.16 | 0.17 | 0.22 | 0.11 | ND | 0.54 |
| NAPHTHALENE | 20 | 50 | 0.21 | 0.17 | 0.22 | 0.13 | ND | 0.47 |
| PENTACHLOROBENZENE | 20 | 20 | 0.22 | 0.20 | 0.24 | 0.16 | ND | 0.027 |
| PHENANTHRENE | 20 | 75 | 0.25 | 0.49 | 0.80 | 0.19 | ND | 3.1 |
| PYRENE | 20 | 85 | 0.24 | 0.60 | 0.98 | 0.22 | ND | 3.8 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 28 | 36 | 0.22 | 0.21 | 0.26 | 0.17 | ND | 0.27 |
| 1,2-DICHLOROBENZENE | 28 | 7 | 0.26 | 0.36 | 0.47 | 0.26 | ND | 0.68 |
| 1,3-DICHLOROBENZENE | 28 | 39 | 0.22 | 0.23 | 0.29 | 0.16 | ND | 0.29 |
| 1,4-DICHLOROBENZENE | 28 | 64 | 0.22 | 0.31 | 0.41 | 0.21 | ND | 1.0 |
| 2-METHYLNAPHTHALENE | 28 | 39 | 0.22 | 0.26 | 0.41 | 0.12 | ND | 2.2 |
| 2-METHYLPHENOL (O-CRESOL) | 28 | 4 | 0.26 | 0.35 | 0.45 | 0.25 | ND | 0.043 |
| 4-METHYLPHENOL | 28 | 29 | 0.23 | 0.27 | 0.34 | 0.20 | ND | 0.40 |
| ACENAPHTHENE | 28 | 21 | 0.23 | 0.41 | 0.68 | 0.14 | ND | 3.9 |
| ACENAPTHYLENE | 28 | 21 | 0.23 | 0.43 | 0.73 | 0.13 | ND | 4.3 |
| ANTHRACENE | 28 | 32 | 0.23 | 0.75 | 1.7 | < 0 | ND | 14 |
| BENZO(A)ANTHRACENE | 28 | 86 | 0.22 | 0.99 | 2.4 | < 0 | ND | 20 |

# Table C-12
# Sediment
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| BENZO(A)PYRENE | 28 | 86 | 0.24 | 0.88 | 1.9 | < 0 | ND | 15 |
| BENZO(B)FLUORANTHENE | 28 | 82 | 0.22 | 0.85 | 1.8 | < 0 | ND | 14 |
| BENZO(GHI)PERYLENE | 28 | 82 | 0.22 | 0.43 | 0.78 | 0.088 | ND | 4.9 |
| BENZO(K)FLUORANTHENE | 28 | 82 | 0.24 | 0.79 | 1.6 | < 0 | ND | 12 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 28 | 50 | 0.24 | 0.67 | 1.3 | 0.068 | ND | 8.6 |
| CHRYSENE | 28 | 89 | 0.24 | 0.89 | 1.9 | < 0 | ND | 14 |
| DIBENZO(A,H)ANTHRACENE | 28 | 57 | 0.20 | 0.23 | 0.39 | 0.078 | ND | 2.3 |
| DIBENZOFURAN | 28 | 7 | 0.26 | 0.50 | 0.84 | 0.15 | ND | 5.0 |
| FLUORANTHENE | 28 | 89 | 0.25 | 2.0 | 4.8 | < 0 | ND | 40 |
| FLUORENE | 28 | 25 | 0.23 | 0.62 | 1.3 | < 0 | ND | 10 |
| INDENO(1,2,3-C,D)PYRENE | 28 | 82 | 0.21 | 0.44 | 0.79 | 0.082 | ND | 5.0 |
| METHAPYRILENE | 28 | 4 | 0.28 | 0.38 | 0.49 | 0.28 | ND | 0.82 |
| NAPHTHALENE | 28 | 57 | 0.21 | 0.38 | 0.79 | < 0 | ND | 6.0 |
| PHENANTHRENE | 28 | 68 | 0.22 | 2.3 | 6.1 | < 0 | ND | 54 |
| PHENOL | 28 | 7 | 0.26 | 0.35 | 0.45 | 0.25 | ND | 0.29 |
| PYRENE | 28 | 89 | 0.27 | 1.9 | 4.5 | < 0 | ND | 36 |
| **Backwaters** | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 15 | 13 | 0.55 | 0.57 | 0.74 | 0.40 | ND | 0.084 |
| 1,4-DICHLOROBENZENE | 16 | 63 | 0.24 | 0.27 | 0.35 | 0.19 | ND | 0.26 |
| 2-METHYLNAPHTHALENE | 15 | 13 | 0.55 | 0.57 | 0.74 | 0.40 | ND | 0.078 |
| 4-METHYLPHENOL | 15 | 13 | 0.49 | 0.55 | 0.72 | 0.39 | ND | 0.15 |
| ACENAPTHYLENE | 15 | 13 | 0.55 | 0.58 | 0.74 | 0.42 | ND | 0.15 |
| ANTHRACENE | 14 | 14 | 0.52 | 0.52 | 0.67 | 0.37 | ND | 0.10 |
| BENZO(A)ANTHRACENE | 15 | 80 | 0.17 | 0.22 | 0.31 | 0.13 | ND | 0.61 |
| BENZO(A)PYRENE | 14 | 50 | 0.32 | 0.36 | 0.48 | 0.25 | ND | 0.70 |
| BENZO(B)FLUORANTHENE | 15 | 67 | 0.20 | 0.30 | 0.41 | 0.19 | ND | 0.80 |

# Table C-12
# Sediment
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| BENZO(GHI)PERYLENE | 15 | 67 | 0.19 | 0.26 | 0.35 | 0.17 | ND | 0.42 |
| BENZO(K)FLUORANTHENE | 15 | 67 | 0.23 | 0.32 | 0.43 | 0.21 | ND | 0.84 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 15 | 40 | 0.49 | 0.44 | 0.60 | 0.27 | ND | 0.62 |
| CHRYSENE | 16 | 75 | 0.24 | 0.28 | 0.38 | 0.18 | ND | 0.89 |
| DIBENZO(A,H)ANTHRACENE | 13 | 8 | 0.55 | 0.56 | 0.70 | 0.42 | ND | 0.14 |
| DIBENZOFURAN | 14 | 7 | 0.55 | 0.55 | 0.69 | 0.41 | ND | 0.050 |
| DIETHYL PHTHALATE | 15 | 7 | 0.55 | 0.55 | 0.67 | 0.42 | ND | 0.13 |
| FLUORANTHENE | 15 | 80 | 0.24 | 0.36 | 0.55 | 0.18 | ND | 1.5 |
| FLUORENE | 14 | 7 | 0.55 | 0.55 | 0.69 | 0.42 | ND | 0.072 |
| INDENO(1,2,3-C,D)PYRENE | 15 | 67 | 0.15 | 0.25 | 0.34 | 0.15 | ND | 0.40 |
| NAPHTHALENE | 16 | 50 | 0.24 | 0.37 | 0.53 | 0.21 | ND | 0.17 |
| PHENANTHRENE | 15 | 80 | 0.18 | 0.28 | 0.40 | 0.15 | ND | 0.87 |
| PYRENE | 17 | 88 | 0.30 | 0.36 | 0.53 | 0.20 | ND | 1.5 |
| TOTAL PAH | 2 | 100 | 5.3 | 5.3 | NA | NA | 1.3 | 9.2 |
| TOTAL PAH (HIGH MW) | 2 | 100 | 1.6 | 1.6 | NA | NA | 0.40 | 2.9 |
| TOTAL PAH (LOW MW) | 2 | 100 | 3.6 | 3.6 | NA | NA | 0.94 | 6.3 |
| **Reach 6 - Woods Pond** | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 28 | 36 | 0.27 | 0.28 | 0.34 | 0.22 | ND | 0.25 |
| 1,2-DICHLOROBENZENE | 24 | 17 | 0.33 | 0.32 | 0.39 | 0.26 | ND | 0.14 |
| 1,3-DICHLOROBENZENE | 28 | 39 | 0.30 | 0.29 | 0.34 | 0.24 | ND | 0.40 |
| 1,4-DICHLOROBENZENE | 29 | 52 | 0.35 | 0.53 | 0.69 | 0.38 | ND | 1.6 |
| 2-METHYLNAPHTHALENE | 28 | 50 | 0.25 | 0.23 | 0.27 | 0.18 | ND | 0.33 |
| 2-METHYLPHENOL (O-CRESOL) | 23 | 4 | 0.34 | 0.36 | 0.42 | 0.30 | ND | 0.057 |
| 4-METHYLPHENOL | 28 | 39 | 0.34 | 0.39 | 0.45 | 0.33 | ND | 0.88 |
| ACENAPHTHENE | 27 | 37 | 0.25 | 0.26 | 0.30 | 0.21 | ND | 0.23 |
| ACENAPTHYLENE | 25 | 24 | 0.31 | 0.29 | 0.35 | 0.23 | ND | 0.19 |

# Table C-12
# Sediment
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| ACETOPHENONE | 25 | 24 | 0.34 | 0.55 | 1.0 | 0.086 | ND | 6.0 |
| ANTHRACENE | 27 | 30 | 0.34 | 0.34 | 0.41 | 0.26 | ND | 0.93 |
| BENZO(A)ANTHRACENE | 29 | 55 | 0.34 | 0.55 | 0.74 | 0.35 | ND | 2.6 |
| BENZO(A)PYRENE | 30 | 57 | 0.36 | 0.61 | 0.82 | 0.40 | ND | 2.6 |
| BENZO(B)FLUORANTHENE | 29 | 55 | 0.34 | 0.60 | 0.78 | 0.41 | ND | 1.8 |
| BENZO(GHI)PERYLENE | 29 | 55 | 0.34 | 0.49 | 0.63 | 0.34 | ND | 1.6 |
| BENZO(K)FLUORANTHENE | 29 | 55 | 0.35 | 0.67 | 0.90 | 0.44 | ND | 2.4 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 25 | 40 | 0.34 | 0.44 | 0.62 | 0.27 | ND | 1.9 |
| CHRYSENE | 31 | 58 | 0.34 | 0.74 | 1.0 | 0.46 | ND | 3.2 |
| DIBENZO(A,H)ANTHRACENE | 27 | 48 | 0.27 | 0.26 | 0.31 | 0.21 | ND | 0.39 |
| DIBENZOFURAN | 25 | 28 | 0.29 | 0.27 | 0.32 | 0.21 | ND | 0.13 |
| FLUORANTHENE | 31 | 58 | 0.35 | 1.1 | 1.6 | 0.60 | ND | 5.0 |
| FLUORENE | 28 | 43 | 0.28 | 0.27 | 0.31 | 0.22 | ND | 0.33 |
| INDENO(1,2,3-C,D)PYRENE | 29 | 55 | 0.34 | 0.45 | 0.57 | 0.32 | ND | 1.4 |
| NAPHTHALENE | 28 | 54 | 0.30 | 0.29 | 0.34 | 0.23 | ND | 0.68 |
| PHENANTHRENE | 31 | 58 | 0.34 | 0.64 | 0.87 | 0.41 | ND | 2.4 |
| PHENOL | 24 | 13 | 0.34 | 2.8 | 7.6 | < 0 | ND | 58 |
| PYRENE | 31 | 68 | 0.35 | 1.4 | 2.0 | 0.69 | ND | 6.6 |
| TOTAL PAH | 10 | 100 | 40 | 43 | 53 | 34 | 27 | 75 |
| TOTAL PAH (HIGH MW) | 10 | 100 | 18 | 19 | 23 | 15 | 12 | 33 |
| TOTAL PAH (LOW MW) | 10 | 100 | 23 | 24 | 30 | 19 | 15 | 42 |
| **Reach 8 - Rising Pond** | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 30 | 37 | 0.25 | 0.21 | 0.26 | 0.17 | ND | 0.11 |
| 1,2-DICHLOROBENZENE | 30 | 13 | 0.29 | 0.28 | 0.32 | 0.24 | ND | 0.066 |
| 1,3-DICHLOROBENZENE | 30 | 20 | 0.28 | 0.26 | 0.30 | 0.22 | ND | 0.15 |
| 1,4-DICHLOROBENZENE | 30 | 73 | 0.13 | 0.16 | 0.20 | 0.12 | ND | 0.48 |

# Table C-12
# Sediment
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| 2-METHYLNAPHTHALENE | 30 | 60 | 0.10 | 0.16 | 0.21 | 0.12 | ND | 0.12 |
| 4-METHYLPHENOL | 30 | 33 | 0.28 | 0.26 | 0.30 | 0.22 | ND | 0.45 |
| ACENAPHTHENE | 30 | 57 | 0.099 | 0.18 | 0.23 | 0.12 | ND | 0.10 |
| ACENAPTHYLENE | 30 | 17 | 0.29 | 0.27 | 0.31 | 0.23 | ND | 0.069 |
| ANTHRACENE | 30 | 80 | 0.092 | 0.15 | 0.19 | 0.10 | ND | 0.33 |
| BENZO(A)ANTHRACENE | 30 | 100 | 0.24 | 0.31 | 0.38 | 0.24 | 0.044 | 0.76 |
| BENZO(A)PYRENE | 30 | 100 | 0.25 | 0.33 | 0.41 | 0.25 | 0.047 | 0.93 |
| BENZO(B)FLUORANTHENE | 30 | 100 | 0.24 | 0.33 | 0.41 | 0.25 | 0.045 | 0.85 |
| BENZO(GHI)PERYLENE | 30 | 100 | 0.19 | 0.23 | 0.29 | 0.17 | 0.035 | 0.67 |
| BENZO(K)FLUORANTHENE | 30 | 100 | 0.29 | 0.37 | 0.46 | 0.28 | 0.046 | 1.1 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 30 | 57 | 0.23 | 0.24 | 0.34 | 0.15 | ND | 1.4 |
| BUTYLBENZYLPHTHALATE | 30 | 3 | 0.30 | 0.30 | 0.33 | 0.28 | ND | 0.036 |
| CHRYSENE | 30 | 100 | 0.36 | 0.46 | 0.57 | 0.34 | 0.058 | 1.3 |
| DIBENZO(A,H)ANTHRACENE | 30 | 77 | 0.072 | 0.14 | 0.18 | 0.092 | ND | 0.21 |
| DIBENZOFURAN | 30 | 40 | 0.27 | 0.21 | 0.27 | 0.16 | ND | 0.094 |
| DI-N-BUTYL PHTHALATE | 30 | 3 | 0.31 | 0.32 | 0.35 | 0.30 | ND | 0.55 |
| FLUORANTHENE | 30 | 100 | 0.57 | 0.71 | 0.90 | 0.52 | 0.067 | 2.0 |
| FLUORENE | 30 | 80 | 0.089 | 0.14 | 0.19 | 0.093 | ND | 0.33 |
| INDENO(1,2,3-C,D)PYRENE | 30 | 100 | 0.18 | 0.22 | 0.28 | 0.17 | 0.031 | 0.60 |
| NAPHTHALENE | 30 | 83 | 0.092 | 0.13 | 0.16 | 0.089 | ND | 0.19 |
| PHENANTHRENE | 30 | 100 | 0.38 | 0.50 | 0.63 | 0.37 | 0.050 | 1.4 |
| PYRENE | 30 | 100 | 0.67 | 0.93 | 1.2 | 0.63 | 0.097 | 3.5 |
| **Reach 9 - Rising Pond Dam to Connecticut Border** | | | | | | | | |
| BENZO(A)ANTHRACENE | 2 | 100 | 0.062 | 0.062 | NA | NA | 0.048 | 0.076 |
| BENZO(A)PYRENE | 2 | 100 | 0.057 | 0.057 | NA | NA | 0.033 | 0.081 |
| BENZO(B)FLUORANTHENE | 2 | 100 | 0.070 | 0.070 | NA | NA | 0.048 | 0.092 |

# Table C-12
# Sediment
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| BENZO(GHI)PERYLENE | 2 | 100 | 0.042 | 0.042 | NA | NA | 0.039 | 0.044 |
| BENZO(K)FLUORANTHENE | 2 | 100 | 0.084 | 0.084 | NA | NA | 0.067 | 0.10 |
| CHRYSENE | 2 | 100 | 0.077 | 0.077 | NA | NA | 0.064 | 0.089 |
| FLUORANTHENE | 2 | 100 | 0.074 | 0.074 | NA | NA | 0.066 | 0.081 |
| INDENO(1,2,3-C,D)PYRENE | 2 | 100 | 0.043 | 0.043 | NA | NA | 0.038 | 0.048 |
| PHENANTHRENE | 2 | 100 | 0.036 | 0.036 | NA | NA | 0.021 | 0.051 |
| PYRENE | 2 | 100 | 0.10 | 0.10 | NA | NA | 0.097 | 0.11 |

Notes:

1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

# Table C-13
# Sediment
# Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| ANTIMONY | 81 | 51 | 0.42 | 0.59 | 0.70 | 0.47 | ND | 4.9 |
| ARSENIC | 81 | 75 | 2.1 | 2.1 | 2.4 | 1.9 | ND | 4.5 |
| BARIUM | 81 | 100 | 20 | 24 | 27 | 20 | 5.6 | 96 |
| BERYLLIUM | 81 | 83 | 0.27 | 0.28 | 0.31 | 0.25 | ND | 0.78 |
| CADMIUM | 81 | 19 | 0.015 | 0.16 | 0.27 | 0.039 | ND | 4.2 |
| CHROMIUM | 81 | 100 | 14 | 20 | 24 | 17 | 5.7 | 86 |
| COBALT | 81 | 100 | 6.5 | 6.6 | 7.0 | 6.1 | 3.6 | 15 |
| COPPER | 81 | 99 | 18 | 25 | 29 | 20 | ND | 94 |
| LEAD | 81 | 100 | 21 | 40 | 49 | 30 | 3.4 | 303 |
| MERCURY | 75 | 92 | 0.060 | 0.26 | 0.51 | 0.0016 | ND | 9.6 |
| NICKEL | 81 | 95 | 12 | 12 | 13 | 11 | ND | 26 |
| SELENIUM | 81 | 2 | 0.14 | 0.15 | 0.17 | 0.13 | ND | 0.57 |
| SILVER | 81 | 31 | 0.085 | 0.38 | 0.58 | 0.18 | ND | 5.3 |
| THALLIUM | 81 | 38 | 0.55 | 0.66 | 0.77 | 0.56 | ND | 3.0 |
| TIN | 81 | 31 | 1.8 | 3.4 | 4.0 | 2.7 | ND | 15 |
| VANADIUM | 81 | 99 | 8.2 | 9.3 | 10 | 8.5 | ND | 24 |
| ZINC | 81 | 100 | 73 | 85 | 94 | 76 | 31 | 275 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| ANTIMONY | 20 | 30 | 0.20 | 0.36 | 0.54 | 0.19 | ND | 1.8 |
| ARSENIC | 20 | 70 | 0.94 | 1.5 | 2.1 | 0.79 | ND | 5.5 |
| BARIUM | 20 | 100 | 18 | 24 | 30 | 17 | 10 | 62 |
| BERYLLIUM | 20 | 60 | 0.13 | 0.20 | 0.28 | 0.13 | ND | 0.57 |
| CADMIUM | 20 | 25 | 0.025 | 0.11 | 0.19 | 0.032 | ND | 0.64 |
| CHROMIUM | 20 | 100 | 14 | 25 | 44 | 6.6 | 5.4 | 198 |
| COBALT | 20 | 95 | 5.9 | 6.5 | 7.6 | 5.5 | ND | 11 |
| COPPER | 20 | 90 | 13 | 22 | 36 | 8.6 | ND | 139 |

# Table C-13
# Sediment
# Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| LEAD | 20 | 100 | 12 | 20 | 31 | 8.9 | 2.0 | 104 |
| MERCURY | 19 | 74 | 0.050 | 0.15 | 0.30 | 0.0058 | ND | 1.4 |
| NICKEL | 20 | 100 | 11 | 12 | 13 | 10 | 8.2 | 19 |
| SELENIUM | 20 | 10 | 0.12 | 0.20 | 0.28 | 0.11 | ND | 0.98 |
| SILVER | 20 | 40 | 0.075 | 0.19 | 0.30 | 0.077 | ND | 0.87 |
| THALLIUM | 20 | 40 | 0.35 | 0.63 | 0.92 | 0.33 | ND | 2.3 |
| TIN | 20 | 20 | 1.1 | 1.9 | 2.7 | 1.1 | ND | 5.7 |
| VANADIUM | 20 | 95 | 6.7 | 7.9 | 9.6 | 6.2 | ND | 16 |
| ZINC | 20 | 100 | 59 | 71 | 89 | 54 | 32 | 193 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| ANTIMONY | 28 | 50 | 0.41 | 1.6 | 2.3 | 0.88 | ND | 8.0 |
| ARSENIC | 28 | 82 | 2.0 | 3.2 | 4.2 | 2.2 | ND | 11 |
| BARIUM | 28 | 100 | 28 | 61 | 82 | 41 | 8.6 | 172 |
| BERYLLIUM | 28 | 75 | 0.26 | 0.37 | 0.48 | 0.26 | ND | 0.88 |
| CADMIUM | 28 | 54 | 0.36 | 2.6 | 4.2 | 1.1 | ND | 17 |
| CHROMIUM | 28 | 100 | 17 | 91 | 137 | 44 | 4.4 | 459 |
| COBALT | 28 | 100 | 7.9 | 8.6 | 9.9 | 7.4 | 3.5 | 14 |
| COPPER | 28 | 93 | 20 | 79 | 112 | 45 | ND | 268 |
| LEAD | 28 | 100 | 18 | 82 | 120 | 45 | 3.1 | 308 |
| MERCURY | 28 | 75 | 0.13 | 0.58 | 0.86 | 0.30 | ND | 2.5 |
| NICKEL | 28 | 100 | 12 | 16 | 19 | 13 | 6.2 | 28 |
| SELENIUM | 24 | 17 | 0.29 | 0.32 | 0.41 | 0.23 | ND | 1.1 |
| SILVER | 28 | 50 | 0.17 | 2.4 | 3.5 | 1.2 | ND | 9.1 |
| THALLIUM | 28 | 32 | 0.39 | 0.81 | 1.1 | 0.51 | ND | 3.1 |
| TIN | 28 | 32 | 1.1 | 7.7 | 12 | 3.8 | ND | 33 |
| VANADIUM | 28 | 100 | 9.2 | 13 | 15 | 9.9 | 3.7 | 25 |

# Table C-13
# Sediment
# Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| ZINC | 28 | 100 | 71 | 205 | 288 | 121 | 24 | 948 |
| **Backwaters** | | | | | | | | |
| ANTIMONY | 15 | 67 | 1.5 | 1.4 | 1.8 | 1.1 | ND | 2.5 |
| ARSENIC | 16 | 94 | 7.1 | 7.1 | 8.9 | 5.4 | ND | 14 |
| BARIUM | 17 | 100 | 95 | 100 | 124 | 77 | 25 | 215 |
| BERYLLIUM | 17 | 100 | 0.89 | 0.88 | 1.1 | 0.70 | 0.18 | 1.6 |
| CADMIUM | 15 | 87 | 2.5 | 2.5 | 3.8 | 1.3 | ND | 7.8 |
| CHROMIUM | 17 | 100 | 107 | 113 | 152 | 74 | 7.1 | 254 |
| COBALT | 17 | 100 | 15 | 14 | 17 | 12 | 3.2 | 23 |
| COPPER | 17 | 100 | 88 | 108 | 143 | 74 | 6.2 | 250 |
| LEAD | 17 | 100 | 103 | 115 | 157 | 73 | 7.3 | 299 |
| MERCURY | 17 | 100 | 1.0 | 0.93 | 1.2 | 0.65 | 0.040 | 1.7 |
| NICKEL | 17 | 100 | 26 | 24 | 29 | 19 | 4.6 | 50 |
| SELENIUM | 15 | 40 | 0.55 | 0.96 | 1.4 | 0.55 | ND | 2.5 |
| SILVER | 15 | 67 | 2.0 | 2.5 | 4.0 | 1.0 | ND | 10 |
| THALLIUM | 15 | 53 | 1.1 | 2.0 | 3.2 | 0.78 | ND | 7.9 |
| TIN | 15 | 67 | 12 | 12 | 16 | 7.5 | ND | 23 |
| VANADIUM | 17 | 100 | 23 | 23 | 27 | 19 | 11 | 41 |
| ZINC | 17 | 100 | 313 | 289 | 367 | 211 | 24 | 520 |
| **Reach 6 - Woods Pond** | | | | | | | | |
| ANTIMONY | 26 | 58 | 0.57 | 2.1 | 3.2 | 1.1 | ND | 8.3 |
| ARSENIC | 30 | 90 | 3.9 | 5.3 | 6.7 | 4.0 | ND | 12 |
| BARIUM | 40 | 100 | 69 | 102 | 128 | 77 | 11 | 313 |
| BERYLLIUM | 39 | 100 | 0.67 | 0.73 | 0.83 | 0.63 | 0.24 | 1.5 |
| CADMIUM | 35 | 66 | 0.56 | 3.9 | 6.0 | 1.8 | ND | 24 |
| CHROMIUM | 39 | 90 | 46 | 143 | 204 | 83 | ND | 650 |

# Table C-13
# Sediment
# Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| COBALT | 40 | 100 | 12 | 11 | 13 | 10 | 3.3 | 19 |
| COPPER | 40 | 100 | 45 | 117 | 158 | 76 | 9.5 | 463 |
| LEAD | 40 | 100 | 23 | 111 | 158 | 65 | 3.2 | 463 |
| MERCURY | 35 | 89 | 0.36 | 0.96 | 1.3 | 0.58 | ND | 4.0 |
| NICKEL | 40 | 100 | 21 | 22 | 25 | 19 | 6.1 | 45 |
| SELENIUM | 25 | 12 | 0.24 | 0.44 | 0.66 | 0.22 | ND | 2.4 |
| SILVER | 31 | 61 | 1.2 | 4.1 | 6.2 | 2.1 | ND | 20 |
| THALLIUM | 25 | 40 | 0.90 | 1.4 | 2.0 | 0.86 | ND | 5.0 |
| TIN | 28 | 50 | 4.5 | 14 | 20 | 8.5 | ND | 41 |
| VANADIUM | 40 | 100 | 17 | 17 | 20 | 15 | 7.0 | 41 |
| ZINC | 40 | 100 | 105 | 252 | 334 | 169 | 39 | 871 |
| **Reach 8 - Rising Pond** | | | | | | | | |
| ANTIMONY | 30 | 83 | 2.0 | 4.1 | 7.0 | 1.1 | ND | 45 |
| ARSENIC | 30 | 100 | 6.1 | 6.4 | 7.5 | 5.2 | 1.4 | 16 |
| BARIUM | 30 | 100 | 123 | 167 | 223 | 112 | 19 | 793 |
| BERYLLIUM | 30 | 100 | 0.74 | 0.69 | 0.77 | 0.62 | 0.30 | 1.0 |
| CADMIUM | 30 | 100 | 2.3 | 6.0 | 9.9 | 2.1 | 0.11 | 50 |
| CHROMIUM | 30 | 100 | 81 | 75 | 92 | 58 | 7.6 | 187 |
| COBALT | 30 | 100 | 10 | 10 | 11 | 9.2 | 4.0 | 14 |
| COPPER | 30 | 100 | 95 | 125 | 166 | 85 | 13 | 612 |
| LEAD | 30 | 100 | 125 | 115 | 135 | 95 | 11 | 248 |
| MERCURY | 30 | 100 | 1.3 | 1.7 | 2.4 | 1.1 | 0.070 | 9.3 |
| NICKEL | 30 | 100 | 18 | 17 | 19 | 15 | 7.8 | 29 |
| SELENIUM | 30 | 10 | 0.22 | 0.40 | 0.57 | 0.23 | ND | 1.8 |
| SILVER | 30 | 90 | 1.0 | 1.4 | 2.0 | 0.73 | ND | 9.5 |
| THALLIUM | 30 | 13 | 0.75 | 0.87 | 1.1 | 0.66 | ND | 2.4 |

# Table C-13
# Sediment
# Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| TIN | 30 | 87 | 14 | 13 | 16 | 11 | ND | 24 |
| VANADIUM | 30 | 100 | 19 | 18 | 20 | 15 | 5.1 | 37 |
| ZINC | 30 | 100 | 480 | 610 | 785 | 435 | 66 | 1790 |
| **Reach 9 - Rising Pond Dam to Connecticut Border** | | | | | | | | |
| ANTIMONY | 2 | 100 | 0.46 | 0.46 | NA | NA | 0.25 | 0.67 |
| ARSENIC | 2 | 50 | 1.6 | 1.6 | NA | NA | ND | 2.4 |
| BARIUM | 2 | 100 | 13 | 13 | NA | NA | 9.9 | 16 |
| BERYLLIUM | 2 | 100 | 0.27 | 0.27 | NA | NA | 0.22 | 0.31 |
| CADMIUM | 2 | 50 | 0.078 | 0.078 | NA | NA | ND | 0.14 |
| CHROMIUM | 2 | 100 | 7.1 | 7.1 | NA | NA | 6.3 | 7.8 |
| COBALT | 2 | 100 | 5.7 | 5.7 | NA | NA | 5.0 | 6.4 |
| COPPER | 2 | 100 | 10 | 10 | NA | NA | 9.4 | 11 |
| LEAD | 2 | 100 | 13 | 13 | NA | NA | 7.9 | 17 |
| MERCURY | 2 | 100 | 0.040 | 0.040 | NA | NA | 0.030 | 0.050 |
| NICKEL | 2 | 100 | 11 | 11 | NA | NA | 10 | 11 |
| VANADIUM | 2 | 100 | 7.5 | 7.5 | NA | NA | 6.7 | 8.3 |
| ZINC | 2 | 100 | 54 | 54 | NA | NA | 46 | 62 |

Notes:

1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

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# Table C-14
# Sediment
# Summary of Detected Inorganics

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| AMMONIA AS N (mg/kg) | 12 | 83 | 6.6 | 7.7 | 12 | 3.7 | ND | 28 |
| PH | 2 | 100 | 7.5 | 7.5 | NA | NA | 7.3 | 7.7 |
| SULFIDE (mg/kg) | 74 | 27 | 5.2 | 13 | 17 | 8.5 | ND | 117 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| CYANIDE (mg/kg) | 20 | 5 | 0.40 | 0.42 | 0.48 | 0.37 | ND | 0.86 |
| SULFIDE (mg/kg) | 20 | 35 | 5.7 | 14 | 24 | 5.4 | ND | 120 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| AMMONIA AS N (mg/kg) | 9 | 100 | 41 | 44 | 66 | 22 | 10 | 97 |
| CYANIDE (mg/kg) | 22 | 5 | 0.42 | 0.52 | 0.63 | 0.42 | ND | 1.4 |
| PH | 2 | 100 | 7.1 | 7.1 | NA | NA | 7.1 | 7.1 |
| SULFIDE (mg/kg) | 22 | 59 | 27 | 38 | 55 | 22 | ND | 122 |
| **Backwaters** | | | | | | | | |
| SULFIDE (mg/kg) | 13 | 54 | 101 | 146 | 241 | 51 | ND | 447 |
| **Reach 6 - Woods Pond** | | | | | | | | |
| SULFIDE (mg/kg) | 29 | 55 | 38 | 239 | 406 | 72 | ND | 1940 |
| **Reach 8 - Rising Pond** | | | | | | | | |
| CYANIDE (mg/kg) | 30 | 3 | 0.55 | 1.2 | 2.4 | < 0 | ND | 19 |
| SULFIDE (mg/kg) | 30 | 70 | 67 | 92 | 130 | 55 | ND | 453 |
| **Reach 9 - Rising Pond Dam to Connecticut Border** | | | | | | | | |
| AMMONIA AS N (mg/kg) | 6 | 50 | 4.0 | 5.4 | 9.3 | 1.5 | ND | 12 |

Notes:

1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

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**Housatonic River - Rest of River**
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# Table C-15
# 1989-1991 Sediment Sampling
# Summary of Detected Appendix IX Data

| Compound/ Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **APPENDIX IX SEMIVOLATILES (mg/kg)** | | | | | | | | |
| BENZO(A)ANTHRACENE | 4 | 100 | 0.37 | 0.37 | 0.46 | 0.28 | 0.29 | 0.45 |
| BENZO(A)PYRENE | 4 | 100 | 0.42 | 0.42 | 0.58 | 0.26 | 0.28 | 0.56 |
| BENZO(B)FLUORANTHENE | 4 | 100 | 0.46 | 0.46 | 0.62 | 0.29 | 0.31 | 0.60 |
| BENZO(K)FLUORANTHENE | 4 | 100 | 0.57 | 0.57 | 0.82 | 0.32 | 0.35 | 0.79 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 2 | 50 | 1.3 | 1.3 | NA | NA | ND | 1.3 |
| CHRYSENE | 4 | 100 | 0.52 | 0.52 | 0.73 | 0.31 | 0.34 | 0.70 |
| FLUORANTHENE | 4 | 100 | 0.78 | 0.78 | 1.0 | 0.55 | 0.58 | 0.98 |
| PHENANTHRENE | 4 | 50 | 1.1 | 1.1 | 1.9 | 0.24 | ND | 0.35 |
| PYRENE | 4 | 100 | 0.89 | 0.89 | 1.2 | 0.52 | 0.57 | 1.2 |
| **APPENDIX IX VOLATILES (mg/kg)** | | | | | | | | |
| ACETONE | 9 | 22 | 0.0050 | 0.0076 | 0.011 | 0.0041 | ND | 0.019 |
| METHYLENE CHLORIDE | 9 | 22 | 0.010 | 0.010 | 0.012 | 0.0090 | ND | 0.016 |
| **DIOXINS/FURANS (pg/g)** | | | | | | | | |
| TOTAL HXCDD | 2 | 50 | 600 | 600 | NA | NA | ND | 200 |
| TOTAL HXCDF | 2 | 50 | 475 | 475 | NA | NA | ND | 300 |
| TOTAL PECDF | 2 | 50 | 860 | 860 | NA | NA | ND | 870 |
| TOTAL TCDF | 2 | 50 | 493 | 493 | NA | NA | ND | 610 |
| **INORGANICS (mg/kg)** | | | | | | | | |
| SULFIDE | 2 | 100 | 153 | 153 | NA | NA | 76 | 230 |

# Table C-15
# 1989-1991 Sediment Sampling
# Summary of Detected Appendix IX Data

| Compound/ Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **METALS (mg/kg)** | | | | | | | | |
| ANTIMONY | 2 | 100 | 5.5 | 5.5 | NA | NA | 4.0 | 7.0 |
| ARSENIC | 19 | 95 | 6.8 | 6.6 | 8.4 | 4.8 | ND | 15 |
| BARIUM | 19 | 100 | 178 | 177 | 225 | 130 | 16 | 359 |
| BERYLLIUM | 2 | 100 | 0.25 | 0.25 | NA | NA | 0.20 | 0.30 |
| CADMIUM | 19 | 100 | 7.0 | 13 | 19 | 5.8 | 0.20 | 50 |
| CHROMIUM | 4 | 100 | 110 | 101 | 138 | 64 | 50 | 136 |
| CHROMIUM, TOTAL | 15 | 100 | 96 | 94 | 119 | 70 | 11 | 174 |
| COBALT | 2 | 100 | 5.5 | 5.5 | NA | NA | 5.0 | 6.0 |
| COPPER | 2 | 100 | 71 | 71 | NA | NA | 56 | 85 |
| LEAD | 19 | 100 | 120 | 130 | 161 | 99 | 25 | 290 |
| MERCURY | 19 | 95 | 1.2 | 1.3 | 1.7 | 0.88 | ND | 3.0 |
| NICKEL | 2 | 100 | 28 | 28 | NA | NA | 17 | 39 |
| SILVER | 19 | 95 | 1.5 | 2.0 | 2.9 | 1.1 | ND | 6.0 |
| TIN | 2 | 100 | 6.5 | 6.5 | NA | NA | 3.0 | 10 |
| VANADIUM | 2 | 100 | 7.5 | 7.5 | NA | NA | 6.0 | 9.0 |
| ZINC | 2 | 100 | 213 | 213 | NA | NA | 141 | 285 |
| **TPH (mg/kg)** | | | | | | | | |
| TOTAL PETROLEUM HYDROCARBONS | 19 | 100 | 480 | 803 | 1184 | 423 | 11 | 3100 |

Notes:

1. All sampling was conducted in Rising Pond.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. ND = Not Detected.
4. NA = Analysis not conducted due to sample size (n<3).

# Table C-16
# Sediment
# Summary of Detected Appendix IX Pesticides (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 4,4'-DDD | 76 | 1 | 0.24 | 0.38 | 0.50 | 0.25 | ND | 0.023 |
| DELTA-BHC | 72 | 1 | 0.12 | 0.20 | 0.26 | 0.13 | ND | 0.22 |
| ENDRIN ALDEHYDE | 76 | 12 | 0.27 | 0.44 | 0.57 | 0.30 | ND | 2.0 |
| HEPTACHLOR EPOXIDE | 75 | 1 | 0.12 | 0.20 | 0.26 | 0.13 | ND | 0.70 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| BETA-BHC | 20 | 5 | 0.013 | 0.037 | 0.061 | 0.014 | ND | 0.021 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| ALDRIN | 24 | 4 | 0.015 | 0.12 | 0.21 | 0.022 | ND | 0.014 |
| DELTA-BHC | 23 | 4 | 0.012 | 0.12 | 0.22 | 0.018 | ND | 0.0041 |
| ENDRIN ALDEHYDE | 24 | 4 | 0.028 | 0.24 | 0.43 | 0.042 | ND | 0.0059 |
| **Backwaters** | | | | | | | | |
| ENDRIN ALDEHYDE | 13 | 8 | 0.11 | 0.45 | 0.79 | 0.12 | ND | 0.023 |
| GAMMA BHC (LINDANE) | 13 | 8 | 0.055 | 0.23 | 0.39 | 0.058 | ND | 0.0061 |
| **Reach 6 - Woods Pond** | | | | | | | | |
| ALPHA-BHC | 24 | 4 | 0.0023 | 0.11 | 0.19 | 0.023 | ND | 0.015 |
| DELTA-BHC | 22 | 9 | 0.0042 | 0.12 | 0.21 | 0.025 | ND | 0.15 |
| ENDOSULFAN SULFATE | 23 | 4 | 0.0050 | 0.22 | 0.39 | 0.047 | ND | 0.016 |
| ENDRIN ALDEHYDE | 23 | 4 | 0.0095 | 0.22 | 0.39 | 0.048 | ND | 0.017 |
| HEPTACHLOR EPOXIDE | 22 | 5 | 0.0023 | 0.14 | 0.24 | 0.032 | ND | 0.67 |
| ISODRIN | 24 | 4 | 0.0023 | 0.11 | 0.19 | 0.023 | ND | 0.017 |

# Table C-16
# Sediment
# Summary of Detected Appendix IX Pesticides (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 9 - Rising Pond Dam to Connecticut Border** | | | | | | | | |
| ALPHA-BHC | 2 | 50 | 0.0027 | 0.0027 | NA | NA | ND | 0.0043 |

Notes:

1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

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# Table C-17
# Sediment
# Summary of Detected Herbicides (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Backwaters** | | | | | | | | |
| 2,4,5-T | 6 | 17 | 0.0098 | 0.017 | 0.031 | 0.0024 | ND | 0.052 |

Notes:
1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

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# Table C-18
# Sediment
# Summary of Detected Minerals (%)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| % ALBITE | 6 | 100 | 2.0 | 2.0 | 2.7 | 1.3 | 1.0 | 3.0 |
| % CHLORITE | 6 | 100 | 3.0 | 3.0 | 4.4 | 1.6 | 1.0 | 6.0 |
| % MICROCLINE | 6 | 100 | 1.5 | 1.8 | 2.8 | 0.9 | 1.0 | 4.0 |
| % ORGANICS | 2 | 100 | 10 | 10 | NA | NA | 9.0 | 11 |
| % QUARTZ | 6 | 100 | 69 | 64 | 79 | 50 | 39 | 85 |
| % MUSCOVITE | 6 | 100 | 21 | 22 | 27 | 16 | 13 | 32 |

Notes:

1. All EPA (1998-00) data are included.
2. NA = Analysis not conducted due to sample size (n<3).

# Table C-19
# Floodplain Soil
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 62 | 100 | 50 | 123 | 163 | 82 | 1.0 | 726 |
| 1,2,3,4,6,7,8-HPCDF | 62 | 97 | 77 | 213 | 293 | 132 | ND | 1398 |
| 1,2,3,4,7,8,9-HPCDF | 62 | 77 | 4.9 | 14 | 19 | 9.1 | ND | 87 |
| 1,2,3,4,7,8-HXCDD | 62 | 63 | 0.77 | 2.3 | 3.1 | 1.5 | ND | 17 |
| 1,2,3,4,7,8-HXCDF | 62 | 97 | 18 | 41 | 56 | 27 | ND | 277 |
| 1,2,3,6,7,8-HXCDD | 62 | 85 | 2.5 | 6.6 | 8.8 | 4.4 | ND | 41 |
| 1,2,3,6,7,8-HXCDF | 62 | 90 | 9.9 | 21 | 28 | 14 | ND | 128 |
| 1,2,3,7,8,9-HXCDD | 62 | 79 | 1.3 | 3.8 | 5.1 | 2.5 | ND | 24 |
| 1,2,3,7,8,9-HXCDF | 62 | 56 | 1.0 | 5.8 | 8.2 | 3.4 | ND | 50 |
| 1,2,3,7,8-PECDD | 62 | 85 | 1.5 | 3.1 | 4.1 | 2.1 | ND | 20 |
| 1,2,3,7,8-PECDF | 62 | 98 | 12 | 33 | 45 | 21 | ND | 193 |
| 2,3,4,6,7,8-HXCDF | 62 | 90 | 8.9 | 22 | 29 | 14 | ND | 118 |
| 2,3,4,7,8-PECDF | 62 | 98 | 19 | 45 | 60 | 30 | ND | 240 |
| 2,3,7,8-TCDD | 62 | 61 | 0.45 | 0.90 | 1.2 | 0.62 | ND | 4.9 |
| 2,3,7,8-TCDF | 62 | 97 | 26 | 54 | 73 | 36 | ND | 309 |
| HPCDD (TOTAL) | 50 | 100 | 81 | 233 | 314 | 152 | 0.92 | 1160 |
| HPCDF (TOTAL) | 50 | 98 | 142 | 424 | 598 | 249 | ND | 2666 |
| HXCDD (TOTAL) | 50 | 100 | 26 | 60 | 84 | 36 | 0.70 | 453 |
| HXCDF (TOTAL) | 50 | 94 | 139 | 351 | 483 | 219 | ND | 2055 |
| OCDD | 62 | 98 | 371 | 1082 | 1444 | 720 | ND | 5790 |
| OCDF | 62 | 90 | 71 | 198 | 264 | 131 | ND | 1050 |
| PECDD (TOTAL) | 50 | 96 | 6.8 | 21 | 31 | 11 | ND | 179 |
| PECDF (TOTAL) | 50 | 100 | 158 | 409 | 549 | 270 | 1.8 | 1750 |
| TCDD (TOTAL) | 50 | 74 | 1.7 | 8.1 | 12 | 4.4 | ND | 62 |
| TCDF (TOTAL) | 50 | 98 | 125 | 343 | 464 | 222 | ND | 1670 |
| WHO TEQ | 62 | 100 | 17 | 48 | 63 | 32 | 0.70 | 230 |

# Table C-19
# Floodplain Soil
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 37 | 97 | 280 | 531 | 822 | 239 | ND | 5300 |
| 1,2,3,4,6,7,8-HPCDF | 37 | 97 | 355 | 572 | 852 | 292 | ND | 5200 |
| 1,2,3,4,7,8,9-HPCDF | 37 | 86 | 21 | 27 | 36 | 18 | ND | 140 |
| 1,2,3,4,7,8-HXCDD | 37 | 78 | 3.7 | 6.8 | 9.9 | 3.7 | ND | 47 |
| 1,2,3,4,7,8-HXCDF | 37 | 86 | 67 | 113 | 177 | 48 | ND | 1200 |
| 1,2,3,6,7,8-HXCDD | 37 | 92 | 14 | 26 | 38 | 13 | ND | 220 |
| 1,2,3,6,7,8-HXCDF | 37 | 95 | 41 | 55 | 74 | 36 | ND | 310 |
| 1,2,3,7,8,9-HXCDD | 37 | 84 | 6.5 | 13 | 20 | 6.2 | ND | 120 |
| 1,2,3,7,8,9-HXCDF | 37 | 84 | 8.7 | 12 | 15 | 7.9 | ND | 50 |
| 1,2,3,7,8-PECDD | 37 | 59 | 3.3 | 6.1 | 8.3 | 3.9 | ND | 24 |
| 1,2,3,7,8-PECDF | 37 | 92 | 73 | 89 | 114 | 63 | ND | 372 |
| 2,3,4,6,7,8-HXCDF | 37 | 92 | 43 | 55 | 71 | 40 | ND | 230 |
| 2,3,4,7,8-PECDF | 37 | 95 | 82 | 110 | 142 | 79 | ND | 478 |
| 2,3,7,8-TCDD | 37 | 78 | 1.7 | 3.0 | 4.4 | 1.6 | ND | 24 |
| 2,3,7,8-TCDF | 37 | 97 | 100 | 129 | 163 | 95 | ND | 510 |
| HPCDD (TOTAL) | 24 | 96 | 535 | 1154 | 1952 | 357 | ND | 9700 |
| HPCDF (TOTAL) | 24 | 100 | 724 | 1281 | 2059 | 502 | 1.9 | 9600 |
| HXCDD (TOTAL) | 24 | 96 | 126 | 250 | 397 | 103 | ND | 1700 |
| HXCDF (TOTAL) | 24 | 96 | 734 | 1139 | 1727 | 551 | ND | 7200 |
| OCDD | 37 | 100 | 2300 | 4532 | 6794 | 2269 | 7.4 | 40000 |
| OCDF | 37 | 95 | 342 | 467 | 615 | 320 | ND | 2400 |
| PECDD (TOTAL) | 24 | 92 | 27 | 46 | 69 | 24 | ND | 220 |
| PECDF (TOTAL) | 24 | 100 | 920 | 1417 | 1992 | 842 | 0.31 | 6300 |
| TCDD (TOTAL) | 24 | 92 | 14 | 25 | 37 | 12 | ND | 130 |
| TCDF (TOTAL) | 24 | 100 | 625 | 978 | 1329 | 627 | 0.24 | 3600 |
| WHO TEQ | 37 | 100 | 80 | 121 | 155 | 87 | 0.29 | 420 |

# Table C-19
# Floodplain Soil
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 38 | 97 | 128 | 501 | 772 | 231 | ND | 4100 |
| 1,2,3,4,6,7,8-HPCDF | 38 | 97 | 172 | 1028 | 1869 | 188 | ND | 14000 |
| 1,2,3,4,7,8,9-HPCDF | 38 | 82 | 5.3 | 32 | 51 | 13 | ND | 290 |
| 1,2,3,4,7,8-HXCDD | 38 | 79 | 2.0 | 8.6 | 14 | 3.3 | ND | 88 |
| 1,2,3,4,7,8-HXCDF | 38 | 95 | 17 | 89 | 129 | 49 | ND | 520 |
| 1,2,3,6,7,8-HXCDD | 38 | 87 | 6.1 | 27 | 43 | 11 | ND | 250 |
| 1,2,3,6,7,8-HXCDF | 38 | 92 | 9.8 | 91 | 175 | 6.1 | ND | 1600 |
| 1,2,3,7,8,9-HXCDD | 38 | 84 | 4.1 | 14 | 22 | 6.3 | ND | 120 |
| 1,2,3,7,8,9-HXCDF | 38 | 71 | 2.8 | 16 | 24 | 8.1 | ND | 100 |
| 1,2,3,7,8-PECDD | 38 | 79 | 2.5 | 9.1 | 14 | 4.1 | ND | 73 |
| 1,2,3,7,8-PECDF | 38 | 95 | 15 | 75 | 108 | 41 | ND | 306 |
| 2,3,4,6,7,8-HXCDF | 38 | 89 | 11 | 64 | 99 | 29 | ND | 540 |
| 2,3,4,7,8-PECDF | 38 | 95 | 17 | 120 | 174 | 67 | ND | 700 |
| 2,3,7,8-TCDD | 38 | 84 | 1.6 | 4.7 | 8.2 | 1.3 | ND | 64 |
| 2,3,7,8-TCDF | 37 | 100 | 33 | 113 | 160 | 66 | 0.34 | 432 |
| HPCDD (TOTAL) | 34 | 94 | 242 | 898 | 1443 | 352 | ND | 7600 |
| HPCDF (TOTAL) | 34 | 100 | 277 | 1812 | 3399 | 225 | 1.5 | 24000 |
| HXCDD (TOTAL) | 34 | 91 | 57 | 233 | 380 | 86 | ND | 2100 |
| HXCDF (TOTAL) | 34 | 100 | 205 | 1406 | 2396 | 416 | 1.2 | 14000 |
| OCDD | 38 | 89 | 1241 | 4248 | 6453 | 2042 | ND | 32000 |
| OCDF | 38 | 92 | 157 | 590 | 997 | 183 | ND | 7000 |
| PECDD (TOTAL) | 34 | 82 | 18 | 58 | 96 | 21 | ND | 540 |
| PECDF (TOTAL) | 34 | 97 | 295 | 1857 | 2993 | 722 | ND | 14000 |
| TCDD (TOTAL) | 34 | 91 | 7.3 | 27 | 41 | 14 | ND | 180 |
| TCDF (TOTAL) | 34 | 100 | 257 | 1142 | 1766 | 517 | 2.1 | 7900 |
| WHO TEQ | 38 | 100 | 20 | 136 | 200 | 72 | 0.56 | 990 |

# Table C-19
# Floodplain Soil
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 6 - Woods Pond** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 9 | 100 | 121 | 287 | 503 | 71 | 16 | 813 |
| 1,2,3,4,6,7,8-HPCDF | 9 | 100 | 158 | 227 | 389 | 65 | 4.4 | 670 |
| 1,2,3,4,7,8,9-HPCDF | 9 | 78 | 7.0 | 18 | 32 | 4.2 | ND | 50 |
| 1,2,3,4,7,8-HXCDD | 9 | 100 | 2.2 | 4.4 | 7.4 | 1.5 | 0.43 | 12 |
| 1,2,3,4,7,8-HXCDF | 9 | 100 | 20 | 73 | 135 | 11 | 1.1 | 214 |
| 1,2,3,6,7,8-HXCDD | 9 | 100 | 6.5 | 13 | 23 | 3.8 | 0.88 | 37 |
| 1,2,3,6,7,8-HXCDF | 9 | 100 | 13 | 45 | 82 | 7.8 | 0.78 | 130 |
| 1,2,3,7,8,9-HXCDD | 9 | 100 | 4.4 | 8.2 | 14 | 2.7 | 0.77 | 21 |
| 1,2,3,7,8,9-HXCDF | 9 | 67 | 1.3 | 13 | 24 | 1.7 | ND | 39 |
| 1,2,3,7,8-PECDD | 9 | 78 | 2.2 | 9.6 | 19 | < 0 | ND | 46 |
| 1,2,3,7,8-PECDF | 9 | 100 | 21 | 99 | 188 | 9.8 | 1.0 | 335 |
| 2,3,4,6,7,8-HXCDF | 9 | 100 | 16 | 51 | 90 | 12 | 0.88 | 130 |
| 2,3,4,7,8-PECDF | 9 | 100 | 26 | 121 | 219 | 22 | 1.7 | 364 |
| 2,3,7,8-TCDD | 9 | 89 | 2.4 | 2.5 | 3.9 | 1.2 | ND | 6.0 |
| 2,3,7,8-TCDF | 9 | 100 | 32 | 149 | 278 | 20 | 2.4 | 508 |
| HPCDD (TOTAL) | 9 | 89 | 232 | 524 | 915 | 133 | ND | 1476 |
| HPCDF (TOTAL) | 9 | 100 | 278 | 457 | 784 | 130 | 7.9 | 1329 |
| HXCDD (TOTAL) | 9 | 89 | 55 | 105 | 179 | 32 | ND | 285 |
| HXCDF (TOTAL) | 9 | 100 | 207 | 619 | 1081 | 158 | 9.2 | 1567 |
| OCDD | 9 | 100 | 848 | 2208 | 3948 | 469 | 91 | 6599 |
| OCDF | 9 | 100 | 98 | 208 | 355 | 61 | 6.6 | 585 |
| PECDD (TOTAL) | 9 | 89 | 19 | 30 | 50 | 9.8 | ND | 82 |
| PECDF (TOTAL) | 9 | 100 | 246 | 1120 | 2026 | 213 | 16 | 3155 |
| TCDD (TOTAL) | 9 | 89 | 13 | 19 | 32 | 6.1 | ND | 55 |
| TCDF (TOTAL) | 9 | 100 | 176 | 840 | 1533 | 146 | 25 | 2589 |
| WHO TEQ | 9 | 100 | 30 | 118 | 208 | 27 | 2.1 | 330 |

# Table C-19
# Floodplain Soil
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 7 - Woods Pond Dam to Rising Pond** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 5 | 100 | 117 | 114 | 171 | 57 | 9.9 | 178 |
| 1,2,3,4,6,7,8-HPCDF | 5 | 100 | 76 | 61 | 91 | 30 | 5.3 | 87 |
| 1,2,3,4,7,8,9-HPCDF | 5 | 80 | 5.1 | 4.3 | 6.7 | 1.9 | ND | 6.6 |
| 1,2,3,4,7,8-HXCDD | 5 | 100 | 1.4 | 1.5 | 2.3 | 0.67 | 0.16 | 2.3 |
| 1,2,3,4,7,8-HXCDF | 5 | 100 | 21 | 17 | 27 | 7.8 | 0.97 | 28 |
| 1,2,3,6,7,8-HXCDD | 5 | 100 | 6.2 | 6.1 | 9.3 | 2.9 | 0.47 | 10 |
| 1,2,3,6,7,8-HXCDF | 5 | 100 | 12 | 10 | 16 | 4.9 | 0.69 | 16 |
| 1,2,3,7,8,9-HXCDD | 5 | 100 | 3.5 | 3.2 | 4.8 | 1.6 | 0.33 | 4.8 |
| 1,2,3,7,8,9-HXCDF | 5 | 60 | 2.0 | 2.4 | 4.1 | 0.69 | ND | 4.4 |
| 1,2,3,7,8-PECDD | 5 | 100 | 2.3 | 1.8 | 2.6 | 0.97 | 0.27 | 2.3 |
| 1,2,3,7,8-PECDF | 5 | 100 | 26 | 24 | 38 | 9.7 | 1.5 | 40 |
| 2,3,4,6,7,8-HXCDF | 5 | 100 | 15 | 11 | 17 | 5.1 | 0.80 | 17 |
| 2,3,4,7,8-PECDF | 5 | 100 | 34 | 28 | 45 | 12 | 2.1 | 44 |
| 2,3,7,8-TCDD | 5 | 80 | 0.75 | 0.55 | 0.84 | 0.26 | ND | 0.80 |
| 2,3,7,8-TCDF | 5 | 100 | 41 | 34 | 55 | 14 | 2.9 | 60 |
| HPCDD (TOTAL) | 5 | 100 | 226 | 214 | 318 | 110 | 23 | 330 |
| HPCDF (TOTAL) | 5 | 100 | 165 | 137 | 207 | 68 | 11 | 205 |
| HXCDD (TOTAL) | 5 | 100 | 42 | 40 | 61 | 20 | 3.6 | 64 |
| HXCDF (TOTAL) | 5 | 100 | 178 | 148 | 225 | 70 | 8.5 | 220 |
| OCDD | 5 | 100 | 878 | 789 | 1188 | 391 | 76 | 1270 |
| OCDF | 5 | 100 | 81 | 66 | 99 | 33 | 5.8 | 95 |
| PECDD (TOTAL) | 5 | 100 | 3.8 | 4.7 | 8.1 | 1.3 | 0.69 | 10 |
| PECDF (TOTAL) | 5 | 100 | 370 | 269 | 419 | 120 | 17 | 393 |
| TCDD (TOTAL) | 5 | 100 | 4.8 | 4.4 | 7.4 | 1.4 | 0.18 | 7.6 |
| TCDF (TOTAL) | 5 | 100 | 373 | 283 | 449 | 117 | 17 | 441 |
| WHO TEQ | 5 | 100 | 34 | 28 | 44 | 13 | 2.2 | 44 |

# Table C-19
# Floodplain Soil
# Summary of Detected PCDDs/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 9 - Rising Pond Dam to Connecticut Border** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 4 | 75 | 100 | 86 | 145 | 27 | ND | 141 |
| 1,2,3,4,6,7,8-HPCDF | 4 | 75 | 41 | 37 | 63 | 11 | ND | 64 |
| 1,2,3,4,7,8,9-HPCDF | 4 | 75 | 2.9 | 2.4 | 4.0 | 0.81 | ND | 3.6 |
| 1,2,3,4,7,8-HXCDD | 4 | 75 | 1.2 | 1.1 | 1.8 | 0.44 | ND | 1.8 |
| 1,2,3,4,7,8-HXCDF | 4 | 75 | 6.8 | 7.1 | 13 | 1.1 | ND | 15 |
| 1,2,3,6,7,8-HXCDD | 4 | 75 | 5.9 | 5.0 | 8.5 | 1.6 | ND | 8.2 |
| 1,2,3,6,7,8-HXCDF | 4 | 75 | 5.1 | 5.0 | 8.9 | 1.1 | ND | 9.6 |
| 1,2,3,7,8,9-HXCDD | 4 | 75 | 3.3 | 2.8 | 4.8 | 0.92 | ND | 4.6 |
| 1,2,3,7,8,9-HXCDF | 4 | 75 | 1.3 | 1.3 | 2.3 | 0.35 | ND | 2.5 |
| 1,2,3,7,8-PECDD | 4 | 75 | 0.98 | 0.94 | 1.6 | 0.28 | ND | 1.7 |
| 1,2,3,7,8-PECDF | 4 | 100 | 10 | 13 | 26 | < 0 | 0.25 | 31 |
| 2,3,4,6,7,8-HXCDF | 4 | 100 | 5.7 | 5.6 | 9.8 | 1.4 | 0.29 | 11 |
| 2,3,4,7,8-PECDF | 4 | 75 | 11 | 14 | 28 | 0.13 | ND | 33 |
| 2,3,7,8-TCDD | 4 | 50 | 0.31 | 0.36 | 0.59 | 0.12 | ND | 0.68 |
| 2,3,7,8-TCDF | 4 | 100 | 18 | 23 | 46 | < 0 | 0.74 | 55 |
| HPCDD (TOTAL) | 4 | 75 | 198 | 166 | 277 | 54 | ND | 262 |
| HPCDF (TOTAL) | 4 | 75 | 105 | 90 | 152 | 27 | ND | 147 |
| HXCDD (TOTAL) | 4 | 75 | 46 | 36 | 61 | 12 | ND | 53 |
| HXCDF (TOTAL) | 4 | 75 | 79 | 72 | 124 | 20 | ND | 127 |
| OCDD | 4 | 75 | 622 | 536 | 901 | 172 | ND | 881 |
| OCDF | 4 | 100 | 56 | 44 | 73 | 16 | 2.5 | 64 |
| PECDD (TOTAL) | 4 | 75 | 9.0 | 7.9 | 14 | 2.1 | ND | 14 |
| PECDF (TOTAL) | 4 | 75 | 128 | 143 | 274 | 12 | ND | 316 |
| TCDD (TOTAL) | 4 | 50 | 2.2 | 4.2 | 10 | < 0 | ND | 12 |
| TCDF (TOTAL) | 4 | 100 | 148 | 189 | 387 | < 0 | 2.5 | 459 |
| WHO TEQ | 4 | 100 | 14 | 15 | 28 | 2.3 | 0.66 | 32 |

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# Table C-19
# Floodplain Soil
# Summary of Detected PCDDs/PCDFs (pg/g)

Notes:

1. All EPA (1998-02) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

# Table C-20
# Floodplain Soil
# Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| ANTIMONY | 49 | 45 | 0.36 | 0.54 | 0.64 | 0.43 | ND | 1.7 |
| ARSENIC | 50 | 98 | 4.8 | 5.0 | 5.6 | 4.4 | ND | 13 |
| BARIUM | 50 | 100 | 40 | 45 | 51 | 38 | 15 | 99 |
| BERYLLIUM | 50 | 94 | 0.45 | 0.50 | 0.57 | 0.42 | ND | 1.3 |
| CADMIUM | 49 | 6 | 0.025 | 0.052 | 0.076 | 0.027 | ND | 0.34 |
| CHROMIUM | 50 | 100 | 17 | 22 | 26 | 18 | 8.0 | 69 |
| COBALT | 50 | 100 | 9.7 | 10 | 11 | 9.3 | 5.2 | 19 |
| COPPER | 50 | 100 | 27 | 34 | 41 | 27 | 7.6 | 144 |
| LEAD | 50 | 100 | 33 | 45 | 57 | 33 | 7.1 | 239 |
| MERCURY | 50 | 94 | 0.15 | 0.29 | 0.48 | 0.11 | ND | 4.6 |
| NICKEL | 50 | 100 | 17 | 18 | 20 | 16 | 9.9 | 40 |
| SELENIUM | 49 | 6 | 0.19 | 0.21 | 0.24 | 0.18 | ND | 0.67 |
| SILVER | 50 | 34 | 0.095 | 0.21 | 0.26 | 0.15 | ND | 0.9 |
| THALLIUM | 50 | 68 | 1.0 | 1.4 | 1.7 | 1.1 | ND | 5.2 |
| TIN | 49 | 27 | 2.2 | 3.6 | 4.9 | 2.2 | ND | 25 |
| VANADIUM | 50 | 100 | 14 | 15 | 17 | 14 | 7.5 | 30 |
| ZINC | 50 | 100 | 87 | 101 | 113 | 89 | 45 | 219 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| ANTIMONY | 24 | 58 | 0.63 | 0.76 | 0.93 | 0.59 | ND | 1.8 |
| ARSENIC | 24 | 100 | 3.4 | 3.7 | 4.2 | 3.2 | 1.3 | 6.7 |
| BARIUM | 24 | 100 | 45 | 51 | 59 | 44 | 28 | 97 |
| BERYLLIUM | 24 | 100 | 0.37 | 0.41 | 0.49 | 0.34 | 0.090 | 0.85 |
| CADMIUM | 24 | 75 | 0.36 | 0.61 | 0.96 | 0.26 | ND | 3.8 |
| CHROMIUM | 24 | 100 | 38 | 48 | 63 | 33 | 12 | 183 |
| COBALT | 24 | 100 | 8.9 | 9.3 | 10 | 8.3 | 5.4 | 15 |

# Table C-20
# Floodplain Soil
# Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| COPPER | 24 | 100 | 41 | 48 | 60 | 37 | 10 | 131 |
| LEAD | 24 | 100 | 51 | 63 | 80 | 46 | 7.4 | 172 |
| MERCURY | 24 | 96 | 0.30 | 0.38 | 0.50 | 0.25 | ND | 1.4 |
| NICKEL | 24 | 100 | 16 | 17 | 19 | 16 | 11 | 26 |
| SELENIUM | 24 | 8 | 0.15 | 0.19 | 0.24 | 0.14 | ND | 0.47 |
| SILVER | 24 | 67 | 0.58 | 0.90 | 1.3 | 0.48 | ND | 4.1 |
| THALLIUM | 24 | 54 | 0.66 | 0.91 | 1.2 | 0.59 | ND | 2.7 |
| TIN | 24 | 46 | 3.3 | 4.6 | 6.1 | 3.1 | ND | 13 |
| VANADIUM | 24 | 100 | 14 | 14 | 16 | 13 | 7.2 | 27 |
| ZINC | 24 | 100 | 124 | 135 | 155 | 114 | 58 | 277 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| ANTIMONY | 34 | 76 | 0.95 | 1.1 | 1.4 | 0.82 | ND | 3.3 |
| ARSENIC | 34 | 100 | 3.8 | 4.3 | 5.1 | 3.5 | 1.0 | 10 |
| BARIUM | 34 | 100 | 66 | 70 | 81 | 58 | 20 | 148 |
| BERYLLIUM | 34 | 88 | 0.57 | 0.57 | 0.69 | 0.46 | ND | 1.9 |
| CADMIUM | 34 | 65 | 0.42 | 1.1 | 1.6 | 0.54 | ND | 7.2 |
| CHROMIUM | 34 | 100 | 42 | 62 | 84 | 41 | 5.3 | 240 |
| COBALT | 34 | 100 | 9.9 | 10 | 11 | 8.9 | 3.8 | 18 |
| COPPER | 34 | 94 | 42 | 61 | 79 | 43 | ND | 178 |
| LEAD | 34 | 100 | 52 | 78 | 103 | 53 | 7.7 | 241 |
| MERCURY | 34 | 91 | 0.30 | 0.50 | 0.68 | 0.32 | ND | 1.9 |
| NICKEL | 34 | 100 | 17 | 17 | 20 | 15 | 3.4 | 31 |
| SELENIUM | 34 | 35 | 0.31 | 0.53 | 0.71 | 0.35 | ND | 2.4 |
| SILVER | 34 | 62 | 0.65 | 1.3 | 1.8 | 0.74 | ND | 6.3 |
| THALLIUM | 34 | 53 | 0.70 | 0.77 | 0.93 | 0.61 | ND | 2.1 |
| TIN | 34 | 50 | 4.5 | 6.4 | 8.7 | 4.2 | ND | 21 |

# Table C-20
# Floodplain Soil
# Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| VANADIUM | 34 | 100 | 18 | 19 | 21 | 16 | 7.0 | 33 |
| ZINC | 34 | 100 | 134 | 156 | 192 | 120 | 30 | 383 |
| **Reach 6 - Woods Pond** | | | | | | | | |
| ANTIMONY | 9 | 44 | 0.49 | 0.76 | 1.1 | 0.41 | ND | 1.8 |
| ARSENIC | 9 | 89 | 5.5 | 5.5 | 6.3 | 4.7 | ND | 7.3 |
| BARIUM | 9 | 100 | 81 | 76 | 97 | 54 | 19 | 121 |
| BERYLLIUM | 9 | 89 | 0.70 | 0.63 | 0.83 | 0.42 | ND | 1.0 |
| CADMIUM | 9 | 56 | 0.15 | 1.1 | 2.2 | 0.077 | ND | 3.9 |
| CHROMIUM | 9 | 100 | 29 | 38 | 60 | 16 | 6.0 | 97 |
| COBALT | 9 | 100 | 8.6 | 9.6 | 12 | 7.1 | 3.9 | 14 |
| COPPER | 9 | 100 | 37 | 55 | 84 | 26 | 5.6 | 126 |
| LEAD | 9 | 100 | 64 | 82 | 119 | 45 | 15 | 180 |
| MERCURY | 9 | 100 | 0.31 | 0.38 | 0.61 | 0.15 | 0.040 | 1.1 |
| NICKEL | 9 | 100 | 16 | 18 | 22 | 13 | 6.0 | 27 |
| SELENIUM | 9 | 33 | 0.37 | 0.53 | 0.79 | 0.27 | ND | 1.3 |
| SILVER | 9 | 67 | 0.67 | 1.3 | 2.2 | 0.37 | ND | 3.5 |
| THALLIUM | 9 | 56 | 1.6 | 1.4 | 1.9 | 0.85 | ND | 2.4 |
| TIN | 9 | 44 | 2.9 | 5.6 | 9.0 | 2.2 | ND | 14 |
| VANADIUM | 9 | 100 | 23 | 21 | 24 | 17 | 11 | 27 |
| ZINC | 9 | 100 | 160 | 163 | 227 | 100 | 36 | 302 |
| **Reach 7 - Woods Pond Dam to Rising Pond** | | | | | | | | |
| ANTIMONY | 5 | 100 | 1.4 | 1.3 | 1.7 | 0.97 | 0.66 | 1.7 |
| ARSENIC | 5 | 100 | 4.5 | 4.9 | 5.8 | 4.0 | 4.1 | 6.6 |
| BARIUM | 5 | 100 | 80 | 88 | 109 | 68 | 69 | 126 |
| BERYLLIUM | 5 | 100 | 0.69 | 0.71 | 0.89 | 0.53 | 0.47 | 1.0 |
| CADMIUM | 5 | 80 | 1.7 | 1.4 | 2.1 | 0.69 | ND | 2.0 |

# Table C-20
# Floodplain Soil
# Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| CHROMIUM | 5 | 100 | 25 | 30 | 40 | 21 | 18 | 44 |
| COBALT | 5 | 100 | 12 | 12 | 15 | 9.7 | 9.8 | 18 |
| COPPER | 5 | 100 | 83 | 64 | 94 | 34 | 15 | 95 |
| LEAD | 5 | 100 | 50 | 56 | 84 | 28 | 21 | 98 |
| MERCURY | 5 | 100 | 0.49 | 0.47 | 0.71 | 0.23 | 0.11 | 0.72 |
| NICKEL | 5 | 100 | 18 | 19 | 23 | 15 | 15 | 26 |
| SELENIUM | 5 | 80 | 1.0 | 0.99 | 1.5 | 0.53 | ND | 1.6 |
| SILVER | 5 | 40 | 0.40 | 0.90 | 1.7 | 0.14 | ND | 2.0 |
| THALLIUM | 5 | 80 | 1.9 | 2.1 | 3.1 | 1.1 | ND | 3.8 |
| TIN | 5 | 40 | 4.1 | 5.3 | 9.0 | 1.5 | ND | 12 |
| VANADIUM | 5 | 100 | 23 | 23 | 27 | 19 | 19 | 30 |
| ZINC | 5 | 100 | 154 | 175 | 230 | 120 | 111 | 265 |
| **Reach 9 - Rising Pond Dam to Connecticut Border** | | | | | | | | |
| ANTIMONY | 4 | 100 | 0.72 | 0.71 | 0.91 | 0.51 | 0.46 | 0.94 |
| ARSENIC | 4 | 100 | 4.0 | 4.2 | 4.9 | 3.5 | 3.6 | 5.2 |
| BARIUM | 4 | 100 | 46 | 53 | 67 | 38 | 43 | 74 |
| BERYLLIUM | 4 | 100 | 0.54 | 0.57 | 0.67 | 0.47 | 0.5 | 0.71 |
| CADMIUM | 4 | 25 | 0.043 | 0.13 | 0.32 | < 0 | ND | 0.41 |
| CHROMIUM | 4 | 100 | 17 | 18 | 21 | 14 | 14 | 23 |
| COBALT | 4 | 100 | 11 | 11 | 13 | 9.5 | 10 | 14 |
| COPPER | 4 | 100 | 23 | 25 | 33 | 16 | 16 | 37 |
| LEAD | 4 | 100 | 19 | 20 | 28 | 11 | 9.8 | 31 |
| MERCURY | 4 | 75 | 0.15 | 0.14 | 0.24 | 0.038 | ND | 0.25 |
| NICKEL | 4 | 100 | 18 | 19 | 22 | 16 | 17 | 24 |
| VANADIUM | 4 | 100 | 17 | 18 | 21 | 14 | 15 | 21 |
| ZINC | 4 | 100 | 101 | 106 | 136 | 76 | 75 | 146 |

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# Table C-20
# Floodplain Soil
# Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|

Notes:
1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

# Table C-21
## Floodplain and Riverbank Soil
## Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 49 | 27 | 0.20 | 0.21 | 0.26 | 0.15 | ND | 0.16 |
| 1,3-DICHLOROBENZENE | 49 | 2 | 0.22 | 0.25 | 0.30 | 0.20 | ND | 0.028 |
| 1,4-DICHLOROBENZENE | 49 | 33 | 0.20 | 0.18 | 0.20 | 0.15 | ND | 0.17 |
| 2-METHYLNAPHTHALENE | 49 | 49 | 0.18 | 0.18 | 0.21 | 0.14 | ND | 0.53 |
| 2-METHYLPHENOL (O-CRESOL) | 49 | 2 | 0.22 | 0.25 | 0.30 | 0.20 | ND | 0.021 |
| 4-METHYLPHENOL | 49 | 2 | 0.22 | 0.25 | 0.30 | 0.20 | ND | 0.049 |
| ACENAPHTHENE | 49 | 37 | 0.20 | 0.20 | 0.25 | 0.16 | ND | 0.91 |
| ACENAPTHYLENE | 49 | 57 | 0.19 | 0.23 | 0.32 | 0.14 | ND | 2.1 |
| ANTHRACENE | 49 | 53 | 0.20 | 0.38 | 0.63 | 0.13 | ND | 5.3 |
| BENZO(A)ANTHRACENE | 50 | 86 | 0.20 | 0.81 | 1.3 | 0.31 | ND | 12 |
| BENZO(A)PYRENE | 50 | 80 | 0.24 | 0.77 | 1.2 | 0.31 | ND | 11 |
| BENZO(B)FLUORANTHENE | 50 | 84 | 0.21 | 0.86 | 1.3 | 0.37 | ND | 11 |
| BENZO(GHI)PERYLENE | 50 | 72 | 0.20 | 0.33 | 0.43 | 0.23 | ND | 1.8 |
| BENZO(K)FLUORANTHENE | 50 | 82 | 0.24 | 0.86 | 1.4 | 0.28 | ND | 14 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 49 | 16 | 0.21 | 0.24 | 0.29 | 0.18 | ND | 0.50 |
| BUTYLBENZYLPHTHALATE | 49 | 8 | 0.21 | 0.24 | 0.29 | 0.18 | ND | 0.075 |
| CHRYSENE | 50 | 88 | 0.23 | 0.90 | 1.4 | 0.35 | ND | 13 |
| DIBENZO(A,H)ANTHRACENE | 49 | 51 | 0.19 | 0.21 | 0.25 | 0.17 | ND | 0.94 |
| DIBENZOFURAN | 49 | 39 | 0.20 | 0.19 | 0.24 | 0.15 | ND | 0.89 |
| DIETHYL PHTHALATE | 50 | 4 | 0.21 | 0.25 | 0.30 | 0.20 | ND | 0.12 |
| DIMETHYL PHTHALATE | 49 | 2 | 0.22 | 0.26 | 0.31 | 0.21 | ND | 0.48 |
| DI-N-BUTYL PHTHALATE | 49 | 8 | 0.21 | 0.24 | 0.29 | 0.18 | ND | 0.036 |
| FLUORANTHENE | 50 | 92 | 0.20 | 1.2 | 2.1 | 0.40 | ND | 20 |
| FLUORENE | 49 | 43 | 0.20 | 0.26 | 0.35 | 0.16 | ND | 2.0 |
| INDENO(1,2,3-C,D)PYRENE | 50 | 78 | 0.19 | 0.32 | 0.42 | 0.22 | ND | 1.9 |
| NAPHTHALENE | 50 | 58 | 0.18 | 0.20 | 0.25 | 0.16 | ND | 0.99 |
| PENTACHLOROBENZENE | 49 | 10 | 0.21 | 0.24 | 0.29 | 0.18 | ND | 0.053 |
| PHENANTHRENE | 50 | 88 | 0.22 | 0.93 | 1.5 | 0.34 | ND | 12 |

# Table C-21
## Floodplain and Riverbank Soil
## Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| PYRENE | 50 | 94 | 0.29 | 1.3 | 2.0 | 0.62 | ND | 15 |
| PYRIDINE | 49 | 2 | 0.22 | 0.26 | 0.31 | 0.21 | ND | 0.48 |
| TOTAL PAH | 2 | 100 | 0.20 | 0.20 | NA | NA | 0.044 | 0.35 |
| TOTAL PAH (HIGH MW) | 2 | 100 | 0.082 | 0.082 | NA | NA | 0.020 | 0.14 |
| TOTAL PAH (LOW MW) | 2 | 100 | 0.12 | 0.12 | NA | NA | 0.024 | 0.21 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| 1,2,4,5-TETRACHLOROBENZENE | 24 | 4 | 0.23 | 0.45 | 0.89 | 0.0097 | ND | 0.046 |
| 1,2,4-TRICHLOROBENZENE | 24 | 46 | 0.21 | 0.37 | 0.82 | < 0 | ND | 0.32 |
| 1,2-DICHLOROBENZENE | 24 | 4 | 0.23 | 0.45 | 0.89 | 0.010 | ND | 0.060 |
| 1,3-DICHLOROBENZENE | 24 | 4 | 0.23 | 0.45 | 0.89 | 0.010 | ND | 0.054 |
| 1,4-DICHLOROBENZENE | 24 | 63 | 0.083 | 0.17 | 0.25 | 0.097 | ND | 0.89 |
| 2,4-DIMETHYLPHENOL | 12 | 8 | 0.22 | 0.66 | 1.5 | < 0 | ND | 0.030 |
| 2-METHYLNAPHTHALENE | 24 | 71 | 0.058 | 0.33 | 0.78 | < 0 | ND | 0.18 |
| 2-METHYLPHENOL (O-CRESOL) | 23 | 4 | 0.23 | 0.46 | 0.92 | < 0 | ND | 0.037 |
| 4-METHYLPHENOL | 23 | 22 | 0.22 | 0.23 | 0.29 | 0.17 | ND | 0.79 |
| ACENAPHTHENE | 24 | 50 | 0.13 | 0.36 | 0.81 | < 0 | ND | 0.050 |
| ACENAPTHYLENE | 24 | 71 | 0.057 | 0.34 | 0.79 | < 0 | ND | 0.18 |
| ANTHRACENE | 24 | 83 | 0.083 | 0.33 | 0.78 | < 0 | ND | 0.21 |
| BENZO(A)ANTHRACENE | 24 | 96 | 0.43 | 0.45 | 0.59 | 0.30 | ND | 1.8 |
| BENZO(A)PYRENE | 24 | 96 | 0.49 | 0.54 | 0.75 | 0.33 | ND | 2.7 |
| BENZO(B)FLUORANTHENE | 24 | 96 | 0.45 | 0.54 | 0.77 | 0.32 | ND | 2.8 |
| BENZO(GHI)PERYLENE | 24 | 96 | 0.30 | 0.41 | 0.60 | 0.21 | ND | 2.3 |
| BENZO(K)FLUORANTHENE | 24 | 96 | 0.51 | 0.55 | 0.75 | 0.35 | ND | 2.5 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 24 | 71 | 0.080 | 0.18 | 0.30 | 0.060 | ND | 1.5 |
| BUTYLBENZYLPHTHALATE | 24 | 8 | 0.23 | 0.44 | 0.88 | 0.00036 | ND | 0.028 |
| CHRYSENE | 24 | 96 | 0.55 | 0.60 | 0.83 | 0.37 | ND | 2.9 |
| DIBENZO(A,H)ANTHRACENE | 24 | 92 | 0.095 | 0.14 | 0.22 | 0.068 | ND | 0.94 |
| DIBENZOFURAN | 24 | 54 | 0.060 | 0.36 | 0.81 | < 0 | ND | 0.079 |
| DI-N-BUTYL PHTHALATE | 24 | 13 | 0.23 | 0.43 | 0.87 | < 0 | ND | 0.045 |

# Table C-21
## Floodplain and Riverbank Soil
## Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| FLUORANTHENE | 24 | 96 | 0.74 | 0.84 | 1.2 | 0.47 | ND | 4.7 |
| FLUORENE | 24 | 67 | 0.056 | 0.34 | 0.79 | < 0 | ND | 0.099 |
| INDENO(1,2,3-C,D)PYRENE | 24 | 96 | 0.29 | 0.38 | 0.56 | 0.20 | ND | 2.1 |
| NAPHTHALENE | 24 | 88 | 0.093 | 0.33 | 0.78 | < 0 | ND | 0.28 |
| PHENANTHRENE | 24 | 92 | 0.45 | 0.65 | 1.1 | 0.21 | ND | 1.1 |
| PHENOL | 24 | 13 | 0.22 | 0.44 | 0.88 | < 0 | ND | 0.17 |
| PYRENE | 24 | 96 | 0.77 | 0.98 | 1.4 | 0.55 | ND | 5.2 |
| TOTAL PAH | 1 | 100 | NA | 7.9 | NA | NA | NA | NA |
| TOTAL PAH (HIGH MW) | 1 | 100 | NA | 2.2 | NA | NA | NA | NA |
| TOTAL PAH (LOW MW) | 1 | 100 | NA | 5.7 | NA | NA | NA | NA |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 34 | 21 | 0.25 | 0.29 | 0.36 | 0.21 | ND | 0.16 |
| 1,4-DICHLOROBENZENE | 34 | 35 | 0.23 | 0.25 | 0.32 | 0.17 | ND | 0.18 |
| 2-METHYLNAPHTHALENE | 34 | 41 | 0.23 | 0.25 | 0.32 | 0.17 | ND | 0.23 |
| 4-METHYLPHENOL | 34 | 15 | 0.27 | 0.30 | 0.38 | 0.23 | ND | 0.087 |
| ACENAPHTHENE | 34 | 12 | 0.27 | 0.31 | 0.39 | 0.24 | ND | 0.056 |
| ACENAPTHYLENE | 34 | 29 | 0.25 | 0.26 | 0.34 | 0.19 | ND | 0.15 |
| ANTHRACENE | 34 | 32 | 0.24 | 0.27 | 0.35 | 0.19 | ND | 0.21 |
| BENZO(A)ANTHRACENE | 34 | 68 | 0.25 | 0.32 | 0.42 | 0.22 | ND | 1.2 |
| BENZO(A)PYRENE | 34 | 74 | 0.24 | 0.35 | 0.47 | 0.23 | ND | 1.6 |
| BENZO(B)FLUORANTHENE | 34 | 74 | 0.25 | 0.35 | 0.46 | 0.23 | ND | 1.6 |
| BENZO(GHI)PERYLENE | 34 | 68 | 0.23 | 0.33 | 0.44 | 0.22 | ND | 1.5 |
| BENZO(K)FLUORANTHENE | 34 | 74 | 0.26 | 0.37 | 0.48 | 0.25 | ND | 1.4 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 34 | 47 | 0.22 | 0.23 | 0.31 | 0.15 | ND | 1.2 |
| BUTYLBENZYLPHTHALATE | 34 | 3 | 0.28 | 0.34 | 0.41 | 0.27 | ND | 0.026 |
| CHRYSENE | 34 | 79 | 0.26 | 0.37 | 0.51 | 0.24 | ND | 1.8 |
| DIBENZO(A,H)ANTHRACENE | 34 | 41 | 0.23 | 0.26 | 0.34 | 0.18 | ND | 0.42 |
| DIBENZOFURAN | 34 | 15 | 0.26 | 0.30 | 0.38 | 0.23 | ND | 0.092 |
| DI-N-BUTYL PHTHALATE | 34 | 6 | 0.28 | 0.34 | 0.41 | 0.27 | ND | 0.035 |

# Table C-21
## Floodplain and Riverbank Soil
## Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| FLUORANTHENE | 34 | 82 | 0.29 | 0.43 | 0.60 | 0.26 | ND | 2.4 |
| FLUORENE | 34 | 26 | 0.25 | 0.27 | 0.35 | 0.19 | ND | 0.10 |
| INDENO(1,2,3-C,D)PYRENE | 34 | 68 | 0.22 | 0.31 | 0.42 | 0.21 | ND | 1.4 |
| NAPHTHALENE | 34 | 53 | 0.22 | 0.24 | 0.31 | 0.16 | ND | 0.40 |
| N-NITROSO-DI-N-BUTYLAMINE | 34 | 3 | 0.28 | 0.33 | 0.40 | 0.27 | ND | 0.044 |
| PHENANTHRENE | 34 | 76 | 0.24 | 0.33 | 0.44 | 0.21 | ND | 1.5 |
| PYRENE | 34 | 85 | 0.30 | 0.57 | 0.81 | 0.32 | ND | 3.3 |
| **Reach 6 - Woods Pond** | | | | | | | | |
| 1,4-DICHLOROBENZENE | 9 | 22 | 0.26 | 0.25 | 0.34 | 0.16 | ND | 0.065 |
| 2-METHYLNAPHTHALENE | 9 | 22 | 0.27 | 0.30 | 0.40 | 0.21 | ND | 0.24 |
| 4-METHYLPHENOL | 9 | 11 | 0.27 | 0.29 | 0.39 | 0.20 | ND | 0.050 |
| 4-NITROPHENOL | 9 | 11 | 0.90 | 0.92 | 1.2 | 0.69 | ND | 1.5 |
| ACENAPTHYLENE | 9 | 33 | 0.26 | 0.27 | 0.38 | 0.16 | ND | 0.21 |
| ACETOPHENONE | 9 | 11 | 0.27 | 0.29 | 0.39 | 0.20 | ND | 0.066 |
| ANTHRACENE | 9 | 33 | 0.26 | 0.26 | 0.38 | 0.15 | ND | 0.15 |
| BENZO(A)ANTHRACENE | 9 | 78 | 0.19 | 0.25 | 0.41 | 0.093 | ND | 0.79 |
| BENZO(A)PYRENE | 9 | 44 | 0.39 | 0.41 | 0.61 | 0.22 | ND | 1.1 |
| BENZO(B)FLUORANTHENE | 9 | 89 | 0.21 | 0.31 | 0.60 | 0.021 | ND | 1.4 |
| BENZO(GHI)PERYLENE | 9 | 78 | 0.15 | 0.19 | 0.27 | 0.11 | ND | 0.34 |
| BENZO(K)FLUORANTHENE | 9 | 89 | 0.22 | 0.37 | 0.74 | < 0 | ND | 1.8 |
| BENZYL ALCOHOL | 9 | 11 | 0.35 | 0.37 | 0.46 | 0.28 | ND | 0.59 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 9 | 11 | 0.27 | 0.30 | 0.39 | 0.21 | ND | 0.073 |
| CHRYSENE | 9 | 100 | 0.10 | 0.28 | 0.54 | 0.033 | 0.022 | 1.2 |
| DIBENZO(A,H)ANTHRACENE | 9 | 22 | 0.26 | 0.27 | 0.38 | 0.16 | ND | 0.065 |
| DIBENZOFURAN | 9 | 11 | 0.31 | 0.32 | 0.40 | 0.24 | ND | 0.13 |
| DI-N-BUTYL PHTHALATE | 9 | 11 | 0.27 | 0.30 | 0.39 | 0.20 | ND | 0.040 |
| FLUORANTHENE | 9 | 100 | 0.14 | 0.27 | 0.45 | 0.087 | 0.022 | 0.80 |
| FLUORENE | 9 | 11 | 0.27 | 0.30 | 0.39 | 0.20 | ND | 0.043 |
| INDENO(1,2,3-C,D)PYRENE | 9 | 89 | 0.12 | 0.15 | 0.24 | 0.068 | ND | 0.30 |

# Table C-21
## Floodplain and Riverbank Soil
## Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| NAPHTHALENE | 9 | 67 | 0.098 | 0.14 | 0.20 | 0.081 | ND | 0.18 |
| PHENANTHRENE | 9 | 78 | 0.22 | 0.27 | 0.42 | 0.12 | ND | 0.76 |
| P-PHENYLENEDIAMINE | 6 | 17 | 0.44 | 0.41 | 0.53 | 0.28 | ND | 0.61 |
| PYRENE | 9 | 100 | 0.17 | 0.34 | 0.58 | 0.093 | 0.020 | 1.1 |
| **Reach 7 - Woods Pond Dam to Rising Pond** | | | | | | | | |
| 1,4-DICHLOROBENZENE | 5 | 20 | 0.22 | 0.22 | 0.33 | 0.11 | ND | 0.042 |
| 2-METHYLNAPHTHALENE | 5 | 20 | 0.22 | 0.22 | 0.33 | 0.11 | ND | 0.042 |
| ACENAPHTHENE | 5 | 20 | 0.22 | 0.22 | 0.33 | 0.11 | ND | 0.053 |
| ACENAPTHYLENE | 5 | 20 | 0.22 | 0.23 | 0.32 | 0.13 | ND | 0.090 |
| ACETOPHENONE | 5 | 20 | 0.22 | 0.22 | 0.33 | 0.10 | ND | 0.032 |
| ANTHRACENE | 5 | 40 | 0.21 | 0.20 | 0.32 | 0.081 | ND | 0.14 |
| BENZO(A)ANTHRACENE | 5 | 80 | 0.16 | 0.20 | 0.35 | 0.053 | ND | 0.48 |
| BENZO(A)PYRENE | 5 | 80 | 0.17 | 0.23 | 0.43 | 0.035 | ND | 0.61 |
| BENZO(B)FLUORANTHENE | 5 | 80 | 0.20 | 0.23 | 0.42 | 0.045 | ND | 0.59 |
| BENZO(GHI)PERYLENE | 5 | 80 | 0.19 | 0.18 | 0.28 | 0.083 | ND | 0.34 |
| BENZO(K)FLUORANTHENE | 5 | 80 | 0.21 | 0.25 | 0.42 | 0.066 | ND | 0.59 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 5 | 60 | 0.21 | 0.19 | 0.32 | 0.062 | ND | 0.26 |
| CHRYSENE | 5 | 80 | 0.21 | 0.27 | 0.49 | 0.051 | ND | 0.70 |
| DIBENZO(A,H)ANTHRACENE | 5 | 40 | 0.21 | 0.20 | 0.31 | 0.096 | ND | 0.12 |
| DIBENZOFURAN | 5 | 20 | 0.22 | 0.22 | 0.33 | 0.11 | ND | 0.041 |
| FLUORANTHENE | 5 | 100 | 0.16 | 0.35 | 0.74 | < 0 | 0.026 | 1.1 |
| FLUORENE | 5 | 20 | 0.22 | 0.22 | 0.33 | 0.12 | ND | 0.062 |
| INDENO(1,2,3-C,D)PYRENE | 5 | 80 | 0.16 | 0.18 | 0.29 | 0.061 | ND | 0.38 |
| NAPHTHALENE | 5 | 60 | 0.090 | 0.15 | 0.29 | 0.011 | ND | 0.090 |
| PHENANTHRENE | 5 | 100 | 0.11 | 0.22 | 0.45 | < 0 | 0.020 | 0.67 |
| PYRENE | 5 | 100 | 0.22 | 0.37 | 0.70 | 0.033 | 0.026 | 0.98 |
| **Reach 9 - Rising Pond Dam to Connecticut Border** | | | | | | | | |
| BENZO(A)ANTHRACENE | 4 | 25 | 0.26 | 0.21 | 0.34 | 0.077 | ND | 0.022 |
| BENZO(A)PYRENE | 4 | 25 | 0.26 | 0.21 | 0.34 | 0.080 | ND | 0.026 |

# Table C-21
# Floodplain and Riverbank Soil
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| BENZO(B)FLUORANTHENE | 4 | 50 | 0.12 | 0.14 | 0.28 | 0.0059 | ND | 0.030 |
| BENZO(K)FLUORANTHENE | 4 | 50 | 0.13 | 0.15 | 0.28 | 0.014 | ND | 0.040 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 4 | 25 | 0.26 | 0.30 | 0.43 | 0.17 | ND | 0.48 |
| CHRYSENE | 4 | 50 | 0.12 | 0.14 | 0.28 | 0.012 | ND | 0.037 |
| FLUORANTHENE | 4 | 50 | 0.14 | 0.15 | 0.28 | 0.032 | ND | 0.065 |
| PHENANTHRENE | 4 | 50 | 0.12 | 0.14 | 0.28 | 0.0048 | ND | 0.034 |
| PYRENE | 4 | 50 | 0.14 | 0.15 | 0.28 | 0.033 | ND | 0.064 |

Notes:

1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

# Table C-22
# Floodplain Soil
# Summary of Detected Appendix IX Pesticides (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 4,4'-DDD | 48 | 2 | 0.024 | 0.20 | 0.30 | 0.11 | ND | 0.0064 |
| 4,4'-DDE | 49 | 4 | 0.026 | 0.20 | 0.29 | 0.11 | ND | 0.059 |
| 4,4'-DDT | 35 | 6 | 0.021 | 0.24 | 0.40 | 0.078 | ND | 2.4 |
| ALPHA-BHC | 49 | 4 | 0.011 | 0.10 | 0.15 | 0.055 | ND | 0.0067 |
| BETA-BHC | 49 | 2 | 0.011 | 0.10 | 0.15 | 0.055 | ND | 0.0022 |
| ENDRIN ALDEHYDE | 48 | 2 | 0.021 | 0.21 | 0.30 | 0.11 | ND | 0.69 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| ENDOSULFAN SULFATE | 24 | 4 | 0.22 | 0.25 | 0.34 | 0.16 | ND | 0.052 |
| HEPTACHLOR EPOXIDE | 24 | 4 | 0.11 | 0.14 | 0.19 | 0.080 | ND | 0.55 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| ALPHA-BHC | 34 | 3 | 0.019 | 0.058 | 0.086 | 0.031 | ND | 0.0031 |
| BETA-BHC | 34 | 6 | 0.019 | 0.059 | 0.086 | 0.031 | ND | 0.0085 |
| HEPTACHLOR | 33 | 3 | 0.024 | 0.060 | 0.088 | 0.032 | ND | 0.0060 |
| **Reach 7 - Woods Pond Dam to Rising Pond** | | | | | | | | |
| 4,4'-DDT | 2 | 50 | 0.37 | 0.37 | NA | NA | ND | 0.73 |
| ENDRIN ALDEHYDE | 5 | 20 | 0.041 | 0.11 | 0.28 | < 0 | ND | 0.44 |

Notes:

1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

**General Electric Company**
**Housatonic River - Rest of River**
**RFI Report**

# Table C-23
# Floodplain Soil
# Summary of Detected Herbicides (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 2,4,5-T | 6 | 33 | 0.0031 | 0.0078 | 0.015 | 0.00074 | ND | 0.024 |
| 2,4,5-TP (SILVEX) | 6 | 17 | 0.0031 | 0.0044 | 0.0063 | 0.0024 | ND | 0.0081 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| 2,4,5-T | 4 | 25 | 0.0058 | 0.0066 | 0.0089 | 0.0043 | ND | 0.0060 |
| 2,4,5-TP (SILVEX) | 4 | 25 | 0.0058 | 0.0066 | 0.0089 | 0.0043 | ND | 0.0060 |

Notes:
1. All EPA (1998-99) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

**General Electric Company**
**Housatonic River - Rest of River**
**RFI Report**

# Table C-24
# Floodplain Soil
# Summary of Detected Inorganics (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| CYANIDE | 49 | 4 | 0.36 | 0.40 | 0.43 | 0.36 | ND | 0.76 |
| SULFIDE | 43 | 7 | 4.7 | 5.1 | 5.6 | 4.6 | ND | 13 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| CYANIDE | 24 | 8 | 0.43 | 0.56 | 0.82 | 0.29 | ND | 3.6 |
| SULFIDE | 24 | 4 | 4.4 | 4.7 | 5.6 | 3.9 | ND | 13 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| SULFIDE | 32 | 13 | 5.2 | 11 | 17 | 4.2 | ND | 99 |
| **Reach 9 - Rising Pond Dam to Connecticut Border** | | | | | | | | |
| SULFIDE | 4 | 25 | 6.1 | 45 | 125 | < 0 | ND | 165 |

Notes:

1. All EPA (1998-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

# Table C-25
# Vernal Pools
# Summary of Detected PCDDS/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 93 | 21 | 188 | 474 | < 0 | ND | 2178 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 93 | 19 | 464 | 1230 | < 0 | ND | 5809 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 60 | 3.3 | 16 | 35 | < 0 | ND | 149 |
| 1,2,3,4,7,8-HXCDD | 15 | 47 | 1.3 | 4.8 | 8.9 | 0.65 | ND | 27 |
| 1,2,3,4,7,8-HXCDF | 15 | 80 | 10 | 29 | 64 | < 0 | ND | 270 |
| 1,2,3,6,7,8-HXCDD | 15 | 67 | 4.7 | 12 | 27 | < 0 | ND | 113 |
| 1,2,3,6,7,8-HXCDF | 15 | 87 | 6.5 | 18 | 36 | < 0 | ND | 143 |
| 1,2,3,7,8,9-HXCDD | 15 | 47 | 2.1 | 7.5 | 15 | 0.38 | ND | 54 |
| 1,2,3,7,8,9-HXCDF | 15 | 47 | 1.6 | 8.7 | 18 | < 0 | ND | 70 |
| 1,2,3,7,8-PECDD | 15 | 40 | 0.91 | 5.3 | 9.4 | 1.3 | ND | 25 |
| 1,2,3,7,8-PECDF | 15 | 80 | 7.0 | 15 | 26 | 3.6 | ND | 84 |
| 2,3,4,6,7,8-HXCDF | 15 | 73 | 9.0 | 23 | 50 | < 0 | ND | 213 |
| 2,3,4,7,8-PECDF | 15 | 87 | 7.8 | 33 | 69 | < 0 | ND | 278 |
| 2,3,7,8-TCDD | 15 | 20 | 0.44 | 1.3 | 2.3 | 0.28 | ND | 7.5 |
| 2,3,7,8-TCDF | 15 | 93 | 9.4 | 30 | 55 | 6.1 | ND | 181 |
| HPCDD (TOTAL) | 12 | 92 | 57 | 422 | 1095 | < 0 | ND | 4113 |
| HPCDF (TOTAL) | 12 | 100 | 68 | 968 | 2656 | < 0 | 1.7 | 10237 |
| HXCDD (TOTAL) | 12 | 75 | 11 | 102 | 265 | < 0 | ND | 994 |
| HXCDF (TOTAL) | 12 | 100 | 49 | 503 | 1295 | < 0 | 0.55 | 4833 |
| OCDD | 15 | 80 | 179 | 1466 | 3733 | < 0 | ND | 17273 |
| OCDF | 15 | 80 | 37 | 309 | 812 | < 0 | ND | 3818 |
| PECDD (TOTAL) | 12 | 67 | 7.5 | 56 | 121 | < 0 | ND | 284 |
| PECDF (TOTAL) | 12 | 92 | 62 | 384 | 879 | < 0 | ND | 3040 |
| TCDD (TOTAL) | 12 | 50 | 0.56 | 8.4 | 21 | < 0 | ND | 76 |

# Table C-25
# Vernal Pools
# Summary of Detected PCDDS/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| TCDF (TOTAL) | 12 | 100 | 70 | 306 | 635 | < 0 | 0.44 | 2007 |
| WHO TEQ | 15 | 100 | 17 | 44 | 92 | < 0 | 0.66 | 370 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 12 | 100 | 157 | 454 | 803 | 104 | 24 | 1990 |
| 1,2,3,4,6,7,8-HPCDF | 12 | 100 | 354 | 565 | 897 | 234 | 43 | 1650 |
| 1,2,3,4,7,8,9-HPCDF | 12 | 100 | 12 | 27 | 44 | 9.7 | 2.3 | 79 |
| 1,2,3,4,7,8-HXCDD | 12 | 83 | 2.6 | 6.9 | 11 | 2.5 | ND | 23 |
| 1,2,3,4,7,8-HXCDF | 12 | 100 | 27 | 86 | 139 | 33 | 7.1 | 244 |
| 1,2,3,6,7,8-HXCDD | 12 | 92 | 5.7 | 24 | 43 | 6.2 | ND | 92 |
| 1,2,3,6,7,8-HXCDF | 12 | 100 | 23 | 40 | 64 | 17 | 3.7 | 113 |
| 1,2,3,7,8,9-HXCDD | 12 | 92 | 4.6 | 14 | 24 | 3.6 | ND | 53 |
| 1,2,3,7,8,9-HXCDF | 12 | 83 | 3.5 | 12 | 22 | 2.8 | ND | 50 |
| 1,2,3,7,8-PECDD | 12 | 83 | 4.2 | 8.1 | 13 | 3.0 | ND | 26 |
| 1,2,3,7,8-PECDF | 12 | 100 | 17 | 76 | 126 | 25 | 6.6 | 274 |
| 2,3,4,6,7,8-HXCDF | 12 | 92 | 14 | 49 | 83 | 16 | ND | 143 |
| 2,3,4,7,8-PECDF | 12 | 92 | 23 | 90 | 156 | 24 | ND | 321 |
| 2,3,7,8-TCDD | 12 | 42 | 0.53 | 3.4 | 7.2 | < 0 | ND | 23 |
| 2,3,7,8-TCDF | 12 | 100 | 32 | 101 | 165 | 36 | 6.9 | 275 |
| HPCDD (TOTAL) | 10 | 100 | 158 | 835 | 1611 | 59 | 46 | 3675 |
| HPCDF (TOTAL) | 10 | 100 | 250 | 948 | 1686 | 210 | 80 | 3210 |
| HXCDD (TOTAL) | 10 | 100 | 39 | 203 | 381 | 26 | 8.3 | 749 |
| HXCDF (TOTAL) | 10 | 100 | 209 | 793 | 1414 | 172 | 65 | 2520 |
| OCDD | 12 | 100 | 1275 | 3501 | 6184 | 818 | 197 | 15210 |
| OCDF | 12 | 92 | 154 | 494 | 863 | 125 | ND | 1960 |
| PECDD (TOTAL) | 10 | 100 | 8.8 | 41 | 74 | 6.7 | 1.8 | 134 |
| PECDF (TOTAL) | 10 | 100 | 223 | 891 | 1608 | 174 | 72 | 2702 |

# Table C-25
# Vernal Pools
# Summary of Detected PCDDS/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| TCDD (TOTAL) | 10 | 70 | 0.82 | 18 | 35 | 0.60 | ND | 73 |
| TCDF (TOTAL) | 10 | 100 | 183 | 836 | 1516 | 156 | 54 | 2760 |
| WHO TEQ | 12 | 100 | 39 | 105 | 174 | 35 | 8.5 | 310 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 6 | 83 | 16 | 37 | 79 | < 0 | ND | 136 |
| 1,2,3,4,6,7,8-HPCDF | 6 | 100 | 24 | 39 | 72 | 5.5 | 4.0 | 110 |
| 1,2,3,4,7,8,9-HPCDF | 6 | 33 | 2.0 | 2.4 | 4.3 | 0.54 | ND | 5.0 |
| 1,2,3,4,7,8-HXCDD | 6 | 17 | 1.2 | 2.5 | 4.7 | 0.20 | ND | 2.0 |
| 1,2,3,4,7,8-HXCDF | 6 | 50 | 4.6 | 4.5 | 7.0 | 2.0 | ND | 8.8 |
| 1,2,3,6,7,8-HXCDD | 6 | 33 | 3.9 | 3.7 | 6.1 | 1.3 | ND | 6.9 |
| 1,2,3,6,7,8-HXCDF | 6 | 50 | 3.2 | 3.2 | 5.4 | 0.96 | ND | 4.8 |
| 1,2,3,7,8,9-HXCDD | 6 | 33 | 1.5 | 2.6 | 4.8 | 0.41 | ND | 2.3 |
| 1,2,3,7,8,9-HXCDF | 6 | 17 | 0.94 | 2.3 | 4.7 | 0.00055 | ND | 1.4 |
| 1,2,3,7,8-PECDD | 6 | 17 | 1.2 | 2.5 | 4.7 | 0.18 | ND | 1.9 |
| 1,2,3,7,8-PECDF | 6 | 67 | 5.6 | 4.7 | 6.7 | 2.7 | ND | 6.7 |
| 2,3,4,6,7,8-HXCDF | 6 | 67 | 3.5 | 3.8 | 6.1 | 1.4 | ND | 7.1 |
| 2,3,4,7,8-PECDF | 6 | 67 | 4.5 | 5.8 | 9.9 | 1.6 | ND | 13 |
| 2,3,7,8-TCDF | 6 | 83 | 4.4 | 8.6 | 16 | 1.2 | ND | 22 |
| HPCDD (TOTAL) | 4 | 100 | 68 | 96 | 202 | < 0 | 3.7 | 246 |
| HPCDF (TOTAL) | 4 | 100 | 33 | 102 | 257 | < 0 | 6.8 | 333 |
| HXCDD (TOTAL) | 4 | 75 | 13 | 24 | 55 | < 0 | ND | 69 |
| HXCDF (TOTAL) | 4 | 100 | 20 | 45 | 103 | < 0 | 6.2 | 132 |
| OCDD | 6 | 67 | 144 | 293 | 596 | < 0 | ND | 974 |
| OCDF | 6 | 67 | 14 | 70 | 180 | < 0 | ND | 344 |
| PECDD (TOTAL) | 4 | 75 | 4.4 | 13 | 35 | < 0 | ND | 45 |
| PECDF (TOTAL) | 4 | 100 | 29 | 52 | 113 | < 0 | 9.0 | 142 |

# Table C-25
# Vernal Pools
# Summary of Detected PCDDS/PCDFs (pg/g)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| TCDD (TOTAL) | 4 | 50 | 2.3 | 7.8 | 20 | < 0 | ND | 27 |
| TCDF (TOTAL) | 4 | 100 | 27 | 53 | 124 | < 0 | 1.7 | 158 |
| WHO TEQ | 6 | 100 | 9.5 | 10 | 17 | 3.3 | 1.1 | 22 |

Notes:

1. All EPA (1999-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

# Table C-26
# Vernal Pools
## Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| ALUMINUM | 3 | 100 | 9580 | 9123 | 14080 | 4165 | 4619 | 13169 |
| ANTIMONY | 8 | 50 | 1.1 | 1.2 | 1.6 | 0.88 | ND | 2.0 |
| ARSENIC | 11 | 82 | 3.7 | 4.4 | 5.9 | 3.0 | ND | 9.5 |
| BARIUM | 11 | 100 | 62 | 64 | 74 | 54 | 34 | 86 |
| BERYLLIUM | 11 | 100 | 0.57 | 0.56 | 0.67 | 0.44 | 0.25 | 0.95 |
| CADMIUM | 11 | 64 | 0.43 | 0.53 | 0.82 | 0.24 | ND | 1.5 |
| CHROMIUM | 11 | 100 | 29 | 31 | 47 | 15 | 8.4 | 104 |
| COBALT | 8 | 100 | 11 | 10 | 12 | 8.8 | 6.9 | 13 |
| COPPER | 11 | 100 | 31 | 43 | 60 | 26 | 17 | 116 |
| IRON | 3 | 100 | 21672 | 20246 | 25957 | 14534 | 14743 | 24322 |
| LEAD | 11 | 100 | 78 | 82 | 117 | 48 | 17 | 236 |
| MAGNESIUM | 3 | 100 | 4778 | 4844 | 5203 | 4485 | 4571 | 5183 |
| MANGANESE | 3 | 100 | 320 | 339 | 487 | 191 | 222 | 476 |
| MERCURY | 11 | 64 | 0.29 | 0.28 | 0.44 | 0.12 | ND | 0.91 |
| NICKEL | 11 | 100 | 20 | 20 | 22 | 17 | 14 | 26 |
| SELENIUM | 11 | 36 | 0.45 | 0.62 | 0.88 | 0.37 | ND | 1.8 |
| SILVER | 8 | 38 | 0.36 | 0.67 | 1.2 | 0.18 | ND | 1.9 |
| STRONTIUM | 3 | 100 | 9.4 | 11 | 17 | 6.0 | 8.1 | 17 |
| THALLIUM | 8 | 25 | 0.96 | 1.4 | 2.3 | 0.51 | ND | 4.0 |
| TIN | 8 | 50 | 5.1 | 4.5 | 6.4 | 2.7 | ND | 7.2 |
| VANADIUM | 11 | 100 | 19 | 19 | 22 | 16 | 10 | 29 |
| ZINC | 11 | 100 | 133 | 151 | 184 | 117 | 106 | 288 |

# Table C-26
# Vernal Pools
## Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| ALUMINUM | 2 | 100 | 16184 | 16184 | NA | NA | 15701 | 16667 |
| ANTIMONY | 8 | 63 | 1.7 | 1.5 | 2.0 | 1.0 | ND | 2.4 |
| ARSENIC | 10 | 80 | 4.9 | 4.5 | 5.9 | 3.1 | ND | 7.2 |
| BARIUM | 10 | 100 | 83 | 80 | 91 | 68 | 50 | 103 |
| BERYLLIUM | 10 | 100 | 0.77 | 0.75 | 0.90 | 0.60 | 0.36 | 1.0 |
| CADMIUM | 10 | 70 | 0.97 | 1.2 | 1.8 | 0.61 | ND | 2.7 |
| CHROMIUM | 10 | 100 | 78 | 85 | 107 | 63 | 20 | 140 |
| COBALT | 8 | 100 | 11 | 10 | 12 | 8.9 | 7.1 | 13 |
| COPPER | 10 | 100 | 70 | 78 | 98 | 58 | 27 | 122 |
| IRON | 2 | 100 | 27683 | 27683 | NA | NA | 26221 | 29145 |
| LEAD | 10 | 100 | 123 | 126 | 162 | 90 | 19 | 206 |
| MAGNESIUM | 2 | 100 | 6204 | 6204 | NA | NA | 6026 | 6382 |
| MANGANESE | 2 | 100 | 465 | 465 | NA | NA | 393 | 538 |
| MERCURY | 10 | 100 | 0.79 | 0.76 | 0.94 | 0.58 | 0.40 | 1.3 |
| NICKEL | 10 | 100 | 23 | 23 | 26 | 19 | 16 | 29 |
| SELENIUM | 10 | 30 | 0.62 | 0.74 | 0.97 | 0.50 | ND | 1.2 |
| SILVER | 8 | 88 | 1.0 | 1.5 | 2.5 | 0.61 | ND | 4.0 |
| STRONTIUM | 2 | 100 | 12 | 12 | NA | NA | 12 | 12 |
| THALLIUM | 8 | 50 | 1.2 | 1.5 | 2.4 | 0.62 | ND | 4.1 |
| TIN | 8 | 63 | 8.3 | 8.0 | 10 | 5.6 | ND | 14 |
| VANADIUM | 10 | 100 | 22 | 22 | 26 | 18 | 13 | 31 |
| ZINC | 10 | 100 | 213 | 216 | 255 | 178 | 98 | 296 |

# Table C-26
# Vernal Pools
## Summary of Detected Metals (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| ALUMINUM | 2 | 100 | 9218 | 9218 | NA | NA | 9095 | 9342 |
| ARSENIC | 4 | 50 | 2.8 | 3.2 | 5.4 | 0.90 | ND | 6.2 |
| BARIUM | 4 | 100 | 45 | 57 | 96 | 18 | 23 | 121 |
| BERYLLIUM | 4 | 100 | 0.32 | 0.33 | 0.45 | 0.20 | 0.17 | 0.46 |
| CADMIUM | 4 | 75 | 0.40 | 0.39 | 0.75 | 0.04 | ND | 1.0 |
| CHROMIUM | 4 | 100 | 15 | 12 | 20 | 4.9 | 0.60 | 18 |
| COBALT | 2 | 100 | 4.7 | 4.7 | NA | NA | 0.80 | 7.5 |
| COPPER | 4 | 100 | 25 | 24 | 40 | 8.6 | 7.8 | 40 |
| IRON | 2 | 100 | 13089 | 13089 | NA | NA | 9667 | 16511 |
| LEAD | 4 | 100 | 56 | 56 | 63 | 49 | 49 | 71 |
| MAGNESIUM | 2 | 100 | 2554 | 2554 | NA | NA | 1520 | 3588 |
| MANGANESE | 2 | 100 | 144 | 144 | NA | NA | 69 | 219 |
| MERCURY | 4 | 75 | 0.19 | 0.17 | 0.26 | 0.074 | ND | 0.25 |
| NICKEL | 4 | 100 | 12 | 12 | 20 | 5.3 | 4.3 | 19 |
| SELENIUM | 4 | 100 | 1.4 | 1.5 | 2.4 | 0.64 | 0.69 | 3.9 |
| STRONTIUM | 2 | 100 | 6.7 | 6.7 | NA | NA | 2.1 | 11 |
| TIN | 2 | 50 | 1.7 | 1.7 | NA | NA | ND | 2.3 |
| VANADIUM | 4 | 100 | 17 | 15 | 22 | 7.9 | 3.2 | 20 |
| ZINC | 4 | 100 | 93 | 87 | 130 | 43 | 33 | 128 |

Notes:

1. All EPA (1999-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

# Table C-27
# Vernal Pools
# Summary of Detected PAHs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 1,6,7-TRIMETHYLNAPHTHALENE | 3 | 100 | 0.0038 | 0.0075 | 0.016 | < 0 | 0.0031 | 0.016 |
| 1-METHYLNAPHTHALENE | 3 | 100 | 0.012 | 0.024 | 0.054 | < 0 | 0.0061 | 0.054 |
| 1-METHYLPHENANTHRENE | 3 | 100 | 0.012 | 0.033 | 0.077 | < 0 | 0.011 | 0.077 |
| 2,6 DIMETHYLNAPHTHALENE | 3 | 100 | 0.0054 | 0.011 | 0.022 | < 0 | 0.0049 | 0.022 |
| 2-METHYLNAPHTHALENE | 3 | 100 | 0.021 | 0.045 | 0.10 | < 0 | 0.011 | 0.10 |
| ACENAPHTHENE | 3 | 100 | 0.019 | 0.017 | 0.031 | 0.0030 | 0.0043 | 0.029 |
| ACENAPTHYLENE | 3 | 100 | 0.028 | 0.094 | 0.23 | < 0 | 0.023 | 0.23 |
| ANTHRACENE | 3 | 100 | 0.051 | 0.12 | 0.27 | < 0 | 0.049 | 0.27 |
| BENZO(A)ANTHRACENE | 3 | 100 | 0.090 | 0.14 | 0.27 | 0.0060 | 0.057 | 0.27 |
| BENZO(A)PYRENE | 3 | 100 | 0.16 | 0.24 | 0.48 | 0.0026 | 0.093 | 0.48 |
| BENZO(B)FLUORANTHENE | 3 | 100 | 0.16 | 0.25 | 0.47 | 0.021 | 0.11 | 0.47 |
| BENZO(E)PYRENE | 3 | 100 | 0.074 | 0.11 | 0.23 | < 0 | 0.038 | 0.23 |
| BENZO(GHI)PERYLENE | 3 | 100 | 0.075 | 0.12 | 0.24 | < 0 | 0.046 | 0.24 |
| BENZO(K)FLUORANTHENE | 3 | 100 | 0.057 | 0.070 | 0.12 | 0.022 | 0.037 | 0.12 |
| BIPHENYL (DIPHENYL) | 3 | 33 | 0.0028 | 0.0072 | 0.016 | < 0 | ND | 0.016 |
| C1-CHRYSENES | 3 | 100 | 0.066 | 0.12 | 0.24 | < 0 | 0.042 | 0.24 |
| C1-DIBENZOTHIOPHENES | 3 | 100 | 0.0035 | 0.011 | 0.027 | < 0 | 0.0032 | 0.027 |
| C1-FLUORANTHENES & PYRENES | 3 | 100 | 0.091 | 0.21 | 0.45 | < 0 | 0.077 | 0.45 |
| C1-FLUORENES | 3 | 100 | 0.015 | 0.031 | 0.064 | < 0 | 0.014 | 0.064 |
| C1-NAPHTHALENES | 3 | 100 | 0.033 | 0.069 | 0.16 | < 0 | 0.017 | 0.16 |
| C1-PHENANTHRENES & ANTHRACENES | 3 | 100 | 0.043 | 0.12 | 0.26 | < 0 | 0.040 | 0.26 |
| C2-CHRYSENES | 3 | 100 | 0.017 | 0.044 | 0.10 | < 0 | 0.014 | 0.10 |
| C2-DIBENZOTHIOPHENES | 3 | 100 | 0.0058 | 0.016 | 0.037 | < 0 | 0.0053 | 0.037 |
| C2-FLUORENES | 3 | 100 | 0.023 | 0.039 | 0.073 | 0.0051 | 0.021 | 0.073 |
| C2-NAPHTHALENES | 3 | 100 | 0.014 | 0.041 | 0.097 | < 0 | 0.012 | 0.097 |

# Table C-27
# Vernal Pools
# Summary of Detected PAHs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| C2-PHENANTHRENES & ANTHRACENES | 3 | 100 | 0.029 | 0.082 | 0.19 | < 0 | 0.025 | 0.19 |
| C3-CHRYSENES | 3 | 100 | 0.00030 | 0.0031 | 0.0089 | < 0 | 0.00020 | 0.0089 |
| C3-DIBENZOTHIOPHENES | 3 | 100 | 0.0037 | 0.010 | 0.023 | < 0 | 0.0032 | 0.023 |
| C3-FLUORENES | 3 | 100 | 0.014 | 0.024 | 0.047 | 0.0014 | 0.012 | 0.047 |
| C3-NAPHTHALENES | 3 | 100 | 0.011 | 0.037 | 0.091 | < 0 | 0.0098 | 0.091 |
| C3-PHENANTHRENES & ANTHRACENES | 3 | 100 | 0.019 | 0.056 | 0.13 | < 0 | 0.019 | 0.13 |
| C4-CHRYSENES | 3 | 67 | 0.0036 | 0.015 | 0.043 | < 0 | ND | 0.043 |
| C4-NAPHTHALENES | 3 | 100 | 0.0069 | 0.021 | 0.049 | < 0 | 0.0065 | 0.049 |
| C4-PHENANTHRENES & ANTHRACENES | 3 | 100 | 0.0060 | 0.015 | 0.033 | < 0 | 0.0043 | 0.033 |
| CHRYSENE | 3 | 100 | 0.12 | 0.17 | 0.31 | 0.024 | 0.072 | 0.31 |
| DIBENZO(A,H)ANTHRACENE | 3 | 100 | 0.014 | 0.030 | 0.070 | < 0 | 0.0076 | 0.070 |
| DIBENZOTHIOPHENE | 3 | 100 | 0.0038 | 0.0076 | 0.016 | < 0 | 0.0032 | 0.016 |
| FLUORANTHENE | 3 | 100 | 0.20 | 0.37 | 0.72 | 0.013 | 0.18 | 0.72 |
| FLUORENE | 3 | 100 | 0.016 | 0.032 | 0.068 | < 0 | 0.011 | 0.068 |
| INDENO(1,2,3-C,D)PYRENE | 3 | 100 | 0.083 | 0.15 | 0.31 | < 0 | 0.048 | 0.31 |
| NAPHTHALENE | 3 | 100 | 0.069 | 0.087 | 0.18 | < 0 | 0.016 | 0.18 |
| PERYLENE | 3 | 100 | 0.017 | 0.056 | 0.14 | < 0 | 0.015 | 0.14 |
| PHENANTHRENE | 3 | 100 | 0.081 | 0.16 | 0.34 | < 0 | 0.070 | 0.34 |
| PYRENE | 3 | 100 | 0.18 | 0.35 | 0.71 | < 0 | 0.15 | 0.71 |
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| 1,6,7-TRIMETHYLNAPHTHALENE | 2 | 100 | 0.049 | 0.049 | NA | NA | 0.043 | 0.056 |
| 1-METHYLNAPHTHALENE | 2 | 100 | 0.36 | 0.36 | NA | NA | 0.18 | 0.54 |
| 1-METHYLPHENANTHRENE | 2 | 100 | 0.35 | 0.35 | NA | NA | 0.24 | 0.45 |
| 2,6 DIMETHYLNAPHTHALENE | 2 | 100 | 0.082 | 0.082 | NA | NA | 0.067 | 0.098 |
| 2-METHYLNAPHTHALENE | 2 | 100 | 0.73 | 0.73 | NA | NA | 0.36 | 1.1 |
| ACENAPHTHENE | 2 | 100 | 0.080 | 0.080 | NA | NA | 0.074 | 0.085 |

# Table C-27
# Vernal Pools
# Summary of Detected PAHs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| ACENAPTHYLENE | 2 | 100 | 0.94 | 0.94 | NA | NA | 0.79 | 1.1 |
| ANTHRACENE | 2 | 100 | 1.3 | 1.3 | NA | NA | 0.89 | 1.8 |
| BENZO(A)ANTHRACENE | 2 | 100 | 2.5 | 2.5 | NA | NA | 2.3 | 2.8 |
| BENZO(A)PYRENE | 2 | 100 | 4.7 | 4.7 | NA | NA | 4.1 | 5.3 |
| BENZO(B)FLUORANTHENE | 2 | 100 | 4.6 | 4.6 | NA | NA | 3.8 | 5.4 |
| BENZO(E)PYRENE | 2 | 100 | 2.6 | 2.6 | NA | NA | 2.1 | 3.2 |
| BENZO(GHI)PERYLENE | 2 | 100 | 2.6 | 2.6 | NA | NA | 2.2 | 3.1 |
| BENZO(K)FLUORANTHENE | 2 | 100 | 1.2 | 1.2 | NA | NA | 1.1 | 1.3 |
| BIPHENYL (DIPHENYL) | 2 | 100 | 0.061 | 0.061 | NA | NA | 0.049 | 0.074 |
| C1-CHRYSENES | 2 | 100 | 2.6 | 2.6 | NA | NA | 2.2 | 3.0 |
| C1-DIBENZOTHIOPHENES | 2 | 100 | 0.12 | 0.12 | NA | NA | 0.081 | 0.17 |
| C1-FLUORANTHENES & PYRENES | 2 | 100 | 2.1 | 2.1 | NA | NA | 1.5 | 2.7 |
| C1-FLUORENES | 2 | 100 | 0.24 | 0.24 | NA | NA | 0.18 | 0.30 |
| C1-NAPHTHALENES | 2 | 100 | 1.1 | 1.1 | NA | NA | 0.54 | 1.6 |
| C1-PHENANTHRENES & ANTHRACENES | 2 | 100 | 1.2 | 1.2 | NA | NA | 0.85 | 1.5 |
| C2-CHRYSENES | 2 | 100 | 1.0 | 1.0 | NA | NA | 0.88 | 1.2 |
| C2-DIBENZOTHIOPHENES | 2 | 100 | 0.16 | 0.16 | NA | NA | 0.12 | 0.20 |
| C2-FLUORENES | 2 | 100 | 0.24 | 0.24 | NA | NA | 0.24 | 0.24 |
| C2-NAPHTHALENES | 2 | 100 | 0.69 | 0.69 | NA | NA | 0.33 | 1.0 |
| C2-PHENANTHRENES & ANTHRACENES | 2 | 100 | 0.94 | 0.94 | NA | NA | 0.71 | 1.2 |
| C3-CHRYSENES | 2 | 100 | 0.061 | 0.061 | NA | NA | 0.041 | 0.082 |
| C3-DIBENZOTHIOPHENES | 2 | 100 | 0.11 | 0.11 | NA | NA | 0.072 | 0.15 |
| C3-FLUORENES | 2 | 100 | 0.23 | 0.23 | NA | NA | 0.17 | 0.28 |
| C3-NAPHTHALENES | 2 | 100 | 0.58 | 0.58 | NA | NA | 0.31 | 0.86 |
| C3-PHENANTHRENES & ANTHRACENES | 2 | 100 | 0.72 | 0.72 | NA | NA | 0.58 | 0.85 |
| C4-CHRYSENES | 2 | 100 | 0.45 | 0.45 | NA | NA | 0.35 | 0.54 |

# Table C-27
# Vernal Pools
# Summary of Detected PAHs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| C4-NAPHTHALENES | 2 | 100 | 0.33 | 0.33 | NA | NA | 0.18 | 0.47 |
| C4-PHENANTHRENES & ANTHRACENES | 2 | 100 | 0.19 | 0.19 | NA | NA | 0.15 | 0.23 |
| CHRYSENE | 2 | 100 | 2.9 | 2.9 | NA | NA | 2.5 | 3.3 |
| DIBENZO(A,H)ANTHRACENE | 2 | 100 | 0.72 | 0.72 | NA | NA | 0.58 | 0.85 |
| DIBENZOTHIOPHENE | 2 | 100 | 0.070 | 0.070 | NA | NA | 0.048 | 0.092 |
| FLUORANTHENE | 2 | 100 | 2.7 | 2.7 | NA | NA | 2.1 | 3.3 |
| FLUORENE | 2 | 100 | 0.24 | 0.24 | NA | NA | 0.20 | 0.28 |
| INDENO(1,2,3-C,D)PYRENE | 2 | 100 | 3.2 | 3.2 | NA | NA | 2.6 | 3.8 |
| NAPHTHALENE | 2 | 100 | 1.1 | 1.1 | NA | NA | 0.57 | 1.7 |
| PERYLENE | 2 | 100 | 0.27 | 0.27 | NA | NA | 0.040 | 0.50 |
| PHENANTHRENE | 2 | 100 | 1.4 | 1.4 | NA | NA | 1.0 | 1.8 |
| PYRENE | 2 | 100 | 2.9 | 2.9 | NA | NA | 2.3 | 3.6 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| 1,6,7-TRIMETHYLNAPHTHALENE | 2 | 100 | 0.038 | 0.038 | NA | NA | 0.0083 | 0.069 |
| 1-METHYLNAPHTHALENE | 2 | 100 | 0.074 | 0.074 | NA | NA | 0.019 | 0.13 |
| 1-METHYLPHENANTHRENE | 2 | 100 | 0.070 | 0.070 | NA | NA | 0.026 | 0.11 |
| 2,6 DIMETHYLNAPHTHALENE | 2 | 100 | 0.029 | 0.029 | NA | NA | 0.010 | 0.048 |
| 2-METHYLNAPHTHALENE | 2 | 100 | 0.081 | 0.081 | NA | NA | 0.030 | 0.13 |
| ACENAPHTHENE | 2 | 100 | 0.010 | 0.010 | NA | NA | 0.0058 | 0.015 |
| ACENAPTHYLENE | 2 | 100 | 0.11 | 0.11 | NA | NA | 0.057 | 0.17 |
| ANTHRACENE | 2 | 100 | 0.22 | 0.22 | NA | NA | 0.091 | 0.35 |
| BENZO(A)ANTHRACENE | 2 | 100 | 0.23 | 0.23 | NA | NA | 0.13 | 0.34 |
| BENZO(A)PYRENE | 2 | 100 | 0.32 | 0.32 | NA | NA | 0.16 | 0.48 |
| BENZO(B)FLUORANTHENE | 2 | 100 | 0.41 | 0.41 | NA | NA | 0.21 | 0.61 |
| BENZO(E)PYRENE | 2 | 100 | 0.12 | 0.12 | NA | NA | 0.069 | 0.17 |
| BENZO(GHI)PERYLENE | 2 | 100 | 0.17 | 0.17 | NA | NA | 0.094 | 0.25 |

# Table C-27
# Vernal Pools
# Summary of Detected PAHs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| BENZO(K)FLUORANTHENE | 2 | 100 | 0.097 | 0.097 | NA | NA | 0.054 | 0.14 |
| BIPHENYL (DIPHENYL) | 2 | 50 | 0.010 | 0.010 | NA | NA | ND | 0.017 |
| C1-CHRYSENES | 2 | 100 | 0.24 | 0.24 | NA | NA | 0.096 | 0.38 |
| C1-DIBENZOTHIOPHENES | 2 | 100 | 0.023 | 0.023 | NA | NA | 0.0090 | 0.037 |
| C1-FLUORANTHENES & PYRENES | 2 | 100 | 0.33 | 0.33 | NA | NA | 0.15 | 0.52 |
| C1-FLUORENES | 2 | 100 | 0.059 | 0.059 | NA | NA | 0.019 | 0.10 |
| C1-NAPHTHALENES | 2 | 100 | 0.16 | 0.16 | NA | NA | 0.048 | 0.26 |
| C1-PHENANTHRENES & ANTHRACENES | 2 | 100 | 0.25 | 0.25 | NA | NA | 0.091 | 0.40 |
| C2-CHRYSENES | 2 | 100 | 0.15 | 0.15 | NA | NA | 0.044 | 0.26 |
| C2-DIBENZOTHIOPHENES | 2 | 100 | 0.033 | 0.033 | NA | NA | 0.012 | 0.054 |
| C2-FLUORENES | 2 | 100 | 0.11 | 0.11 | NA | NA | 0.028 | 0.19 |
| C2-NAPHTHALENES | 2 | 100 | 0.13 | 0.13 | NA | NA | 0.030 | 0.22 |
| C2-PHENANTHRENES & ANTHRACENES | 2 | 100 | 0.23 | 0.23 | NA | NA | 0.073 | 0.39 |
| C3-CHRYSENES | 2 | 100 | 0.00050 | 0.00050 | NA | NA | 0.00030 | 0.00070 |
| C3-DIBENZOTHIOPHENES | 2 | 100 | 0.023 | 0.023 | NA | NA | 0.0072 | 0.039 |
| C3-FLUORENES | 2 | 100 | 0.11 | 0.11 | NA | NA | 0.032 | 0.18 |
| C3-NAPHTHALENES | 2 | 100 | 0.13 | 0.13 | NA | NA | 0.027 | 0.24 |
| C3-PHENANTHRENES & ANTHRACENES | 2 | 100 | 0.16 | 0.16 | NA | NA | 0.024 | 0.30 |
| C4-CHRYSENES | 2 | 100 | 0.00010 | 0.00010 | NA | NA | 0.00010 | 0.00010 |
| C4-NAPHTHALENES | 2 | 100 | 0.081 | 0.081 | NA | NA | 0.016 | 0.15 |
| C4-PHENANTHRENES & ANTHRACENES | 2 | 100 | 0.064 | 0.064 | NA | NA | 0.0054 | 0.12 |
| CHRYSENE | 2 | 100 | 0.28 | 0.28 | NA | NA | 0.13 | 0.42 |
| DIBENZO(A,H)ANTHRACENE | 2 | 100 | 0.036 | 0.036 | NA | NA | 0.018 | 0.054 |
| DIBENZOTHIOPHENE | 2 | 100 | 0.012 | 0.012 | NA | NA | 0.0065 | 0.018 |
| FLUORANTHENE | 2 | 100 | 0.46 | 0.46 | NA | NA | 0.22 | 0.70 |
| FLUORENE | 2 | 100 | 0.036 | 0.036 | NA | NA | 0.018 | 0.054 |

# Table C-27
# Vernal Pools
# Summary of Detected PAHs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| INDENO(1,2,3-C,D)PYRENE | 2 | 100 | 0.20 | 0.20 | NA | NA | 0.10 | 0.30 |
| NAPHTHALENE | 2 | 100 | 0.079 | 0.079 | NA | NA | 0.044 | 0.11 |
| PERYLENE | 2 | 100 | 0.046 | 0.046 | NA | NA | 0.028 | 0.064 |
| PHENANTHRENE | 2 | 100 | 0.21 | 0.21 | NA | NA | 0.12 | 0.31 |
| PYRENE | 2 | 100 | 0.42 | 0.42 | NA | NA | 0.21 | 0.64 |

Notes:

1. All EPA (2000) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

# Table C-28
# Vernal Pools
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 8 | 25 | 0.34 | 0.34 | 0.51 | 0.17 | ND | 0.053 |
| 1,4-DICHLOROBENZENE | 8 | 38 | 0.34 | 0.32 | 0.50 | 0.15 | ND | 0.070 |
| 2-METHYLNAPHTHALENE | 8 | 13 | 0.35 | 0.38 | 0.52 | 0.23 | ND | 0.062 |
| 4-METHYLPHENOL | 8 | 50 | 0.42 | 0.43 | 0.61 | 0.25 | ND | 1.0 |
| ACENAPHTHENE | 8 | 13 | 0.36 | 0.37 | 0.52 | 0.23 | ND | 0.031 |
| ACENAPTHYLENE | 8 | 50 | 0.28 | 0.30 | 0.49 | 0.12 | ND | 0.19 |
| ACETOPHENONE | 8 | 50 | 0.26 | 0.23 | 0.34 | 0.11 | ND | 0.65 |
| ANTHRACENE | 8 | 50 | 0.24 | 0.30 | 0.48 | 0.11 | ND | 0.11 |
| BENZO(A)ANTHRACENE | 8 | 75 | 0.34 | 0.40 | 0.64 | 0.16 | ND | 1.0 |
| BENZO(A)PYRENE | 8 | 63 | 0.48 | 0.52 | 0.81 | 0.22 | ND | 1.4 |
| BENZO(B)FLUORANTHENE | 8 | 63 | 0.43 | 0.49 | 0.74 | 0.24 | ND | 1.2 |
| BENZO(GHI)PERYLENE | 8 | 63 | 0.39 | 0.38 | 0.56 | 0.20 | ND | 0.65 |
| BENZO(K)FLUORANTHENE | 8 | 63 | 0.47 | 0.49 | 0.74 | 0.23 | ND | 1.2 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 8 | 13 | 0.35 | 0.37 | 0.52 | 0.23 | ND | 0.039 |
| CHRYSENE | 8 | 75 | 0.45 | 0.48 | 0.78 | 0.19 | ND | 1.3 |
| DIBENZO(A,H)ANTHRACENE | 8 | 50 | 0.28 | 0.31 | 0.49 | 0.14 | ND | 0.20 |
| DI-N-BUTYL PHTHALATE | 8 | 13 | 0.34 | 0.35 | 0.47 | 0.22 | ND | 0.067 |
| FLUORANTHENE | 8 | 88 | 0.37 | 0.47 | 0.78 | 0.17 | ND | 1.3 |
| FLUORENE | 8 | 25 | 0.34 | 0.34 | 0.51 | 0.17 | ND | 0.046 |
| INDENO(1,2,3-C,D)PYRENE | 8 | 63 | 0.38 | 0.36 | 0.54 | 0.19 | ND | 0.58 |
| NAPHTHALENE | 8 | 63 | 0.15 | 0.26 | 0.44 | 0.084 | ND | 0.15 |
| PHENANTHRENE | 8 | 75 | 0.38 | 0.37 | 0.54 | 0.19 | ND | 0.57 |
| PYRENE | 8 | 75 | 0.51 | 0.62 | 0.99 | 0.25 | ND | 1.7 |
| TOTAL PAH | 7 | 86 | 2.2 | 10 | 25 | < 0 | ND | 53 |
| TOTAL PAH (HIGH MW) | 7 | 86 | 0.68 | 3.98 | 10 | < 0 | ND | 23 |
| TOTAL PAH (LOW MW) | 7 | 71 | 1.5 | 6.29 | 14 | < 0 | ND | 30 |

# Table C-28
# Vernal Pools
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 8 | 13 | 0.38 | 0.38 | 0.53 | 0.23 | ND | 0.039 |
| 1,4-DICHLOROBENZENE | 8 | 50 | 0.18 | 0.20 | 0.32 | 0.088 | ND | 0.081 |
| 2-METHYLNAPHTHALENE | 8 | 25 | 0.35 | 0.35 | 0.51 | 0.18 | ND | 0.068 |
| 4-METHYLPHENOL | 8 | 38 | 0.44 | 1.0 | 2.2 | < 0 | ND | 5.1 |
| ACENAPTHYLENE | 8 | 50 | 0.26 | 0.30 | 0.49 | 0.12 | ND | 0.14 |
| ANTHRACENE | 8 | 50 | 0.23 | 0.29 | 0.48 | 0.09 | ND | 0.076 |
| BENZO(A)ANTHRACENE | 8 | 88 | 0.23 | 0.26 | 0.37 | 0.15 | ND | 0.51 |
| BENZO(A)PYRENE | 8 | 88 | 0.24 | 0.29 | 0.43 | 0.15 | ND | 0.65 |
| BENZO(B)FLUORANTHENE | 8 | 88 | 0.28 | 0.28 | 0.40 | 0.17 | ND | 0.58 |
| BENZO(GHI)PERYLENE | 8 | 88 | 0.15 | 0.27 | 0.41 | 0.12 | ND | 0.61 |
| BENZO(K)FLUORANTHENE | 8 | 88 | 0.29 | 0.32 | 0.46 | 0.17 | ND | 0.66 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 8 | 25 | 0.35 | 0.34 | 0.51 | 0.17 | ND | 0.047 |
| CHRYSENE | 8 | 88 | 0.29 | 0.34 | 0.47 | 0.20 | ND | 0.68 |
| DIBENZO(A,H)ANTHRACENE | 8 | 38 | 0.35 | 0.35 | 0.51 | 0.19 | ND | 0.21 |
| DIETHYL PHTHALATE | 8 | 38 | 0.29 | 0.30 | 0.48 | 0.13 | ND | 0.088 |
| FLUORANTHENE | 8 | 88 | 0.35 | 0.43 | 0.61 | 0.24 | ND | 0.83 |
| FLUORENE | 8 | 13 | 0.40 | 0.39 | 0.54 | 0.24 | ND | 0.037 |
| INDENO(1,2,3-C,D)PYRENE | 8 | 88 | 0.13 | 0.22 | 0.34 | 0.11 | ND | 0.49 |
| NAPHTHALENE | 8 | 75 | 0.092 | 0.17 | 0.28 | 0.063 | ND | 0.14 |
| PHENANTHRENE | 8 | 88 | 0.25 | 0.27 | 0.37 | 0.18 | ND | 0.44 |
| PHENOL | 8 | 13 | 0.42 | 0.66 | 1.1 | 0.20 | ND | 2.2 |
| PYRENE | 8 | 88 | 0.37 | 0.54 | 0.81 | 0.26 | ND | 1.2 |
| TOTAL PAH | 4 | 100 | 4.6 | 4.7 | 7.0 | 2.5 | 2.4 | 7.2 |
| TOTAL PAH (HIGH MW) | 4 | 100 | 1.3 | 1.2 | 1.6 | 0.74 | 0.65 | 1.6 |
| TOTAL PAH (LOW MW) | 4 | 100 | 3.3 | 3.5 | 5.3 | 1.7 | 1.8 | 5.6 |

# Table C-28
# Vernal Pools
# Summary of Detected Appendix IX SVOCs (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| 2-METHYLNAPHTHALENE | 2 | 50 | 0.70 | 0.70 | NA | NA | ND | 0.28 |
| 4-METHYLPHENOL | 2 | 50 | 1.1 | 1.1 | NA | NA | ND | 1.1 |
| ACENAPTHYLENE | 2 | 50 | 0.87 | 0.87 | NA | NA | ND | 0.61 |
| ACETOPHENONE | 2 | 100 | 0.56 | 0.56 | NA | NA | 0.37 | 1.0 |
| ANTHRACENE | 2 | 50 | 0.97 | 0.97 | NA | NA | ND | 0.82 |
| BENZO(A)ANTHRACENE | 2 | 50 | 4.5 | 4.5 | NA | NA | ND | 7.9 |
| BENZO(A)PYRENE | 2 | 50 | 2.8 | 2.8 | NA | NA | ND | 4.4 |
| BENZO(B)FLUORANTHENE | 2 | 50 | 4.5 | 4.5 | NA | NA | ND | 7.8 |
| BENZO(GHI)PERYLENE | 2 | 50 | 1.2 | 1.2 | NA | NA | ND | 1.2 |
| BENZO(K)FLUORANTHENE | 2 | 50 | 3.4 | 3.4 | NA | NA | ND | 5.7 |
| CHRYSENE | 2 | 50 | 4.7 | 4.7 | NA | NA | ND | 8.2 |
| DIBENZO(A,H)ANTHRACENE | 2 | 50 | 0.94 | 0.94 | NA | NA | ND | 0.76 |
| DIBENZOFURAN | 2 | 50 | 0.61 | 0.61 | NA | NA | ND | 0.1 |
| FLUORENE | 2 | 50 | 0.60 | 0.60 | NA | NA | ND | 0.081 |
| INDENO(1,2,3-C,D)PYRENE | 2 | 50 | 1.3 | 1.3 | NA | NA | ND | 1.5 |
| NAPHTHALENE | 2 | 50 | 0.69 | 0.69 | NA | NA | ND | 0.26 |
| PHENANTHRENE | 2 | 50 | 1.1 | 1.1 | NA | NA | ND | 1.0 |
| TOTAL PAH | 2 | 50 | 21 | 21 | NA | NA | ND | 40 |
| TOTAL PAH (HIGH MW) | 2 | 50 | 1.9 | 1.9 | NA | NA | ND | 2.8 |
| TOTAL PAH (LOW MW) | 2 | 50 | 19 | 19 | NA | NA | ND | 37 |

Notes:

1. All EPA (1999-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

# Table C-29
# Vernal Pools
# Summary of Detected Appendix IX Pesticides (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5A - Confluence to Pittsfield WWTP** | | | | | | | | |
| 1,2,3,4-TETRACHLOROBENZENE | 3 | 100 | 0.0032 | 0.0056 | 0.011 | 0.00060 | 0.0029 | 0.011 |
| 1,2,4,5-TETRACHLOROBENZENE | 3 | 100 | 0.0078 | 0.0092 | 0.016 | 0.0025 | 0.0042 | 0.016 |
| 4,4'-DDD | 13 | 38 | 0.14 | 0.22 | 0.37 | 0.070 | ND | 0.48 |
| 4,4'-DDE | 14 | 57 | 0.28 | 0.69 | 1.1 | 0.25 | ND | 2.4 |
| 4,4'-DDT | 11 | 27 | 0.073 | 0.27 | 0.60 | < 0 | ND | 0.22 |
| ALDRIN | 13 | 8 | 0.024 | 0.078 | 0.15 | 0.0038 | ND | 0.00089 |
| ALPHA-BHC | 13 | 31 | 0.024 | 0.078 | 0.15 | 0.0035 | ND | 0.0076 |
| ALPHA-CHLORDANE | 3 | 67 | 0.0039 | 0.0029 | 0.0049 | 0.00080 | ND | 0.0039 |
| BETA-BHC | 13 | 8 | 0.024 | 0.079 | 0.15 | 0.0051 | ND | 0.016 |
| CHLORPYRIFOS | 3 | 100 | 0.0036 | 0.0034 | 0.0058 | 0.0011 | 0.0013 | 0.0054 |
| CIS-NONACHLOR | 3 | 100 | 0.012 | 0.010 | 0.017 | 0.0040 | 0.0042 | 0.015 |
| DELTA-BHC | 13 | 15 | 0.024 | 0.078 | 0.15 | 0.0032 | ND | 0.0015 |
| DIELDRIN | 13 | 23 | 0.049 | 0.16 | 0.30 | 0.0069 | ND | 0.0066 |
| ENDOSULFAN II | 13 | 23 | 0.049 | 0.16 | 0.30 | 0.0069 | ND | 0.0059 |
| ENDRIN | 13 | 23 | 0.049 | 0.15 | 0.30 | 0.0061 | ND | 0.0024 |
| GAMMA BHC (LINDANE) | 13 | 15 | 0.024 | 0.078 | 0.15 | 0.0038 | ND | 0.0023 |
| HEPTACHLOR | 13 | 15 | 0.024 | 0.079 | 0.15 | 0.0045 | ND | 0.0095 |
| HEXACHLOROBENZENE | 3 | 100 | 0.0012 | 0.0012 | 0.0015 | 0.00094 | 0.00097 | 0.0015 |
| MIREX | 3 | 67 | 0.0015 | 0.0016 | 0.0027 | 0.00050 | ND | 0.0015 |
| O,P'-DDD | 3 | 100 | 0.049 | 0.055 | 0.10 | 0.010 | 0.019 | 0.096 |
| O,P'-DDE | 3 | 67 | 0.0084 | 0.015 | 0.035 | < 0 | ND | 0.035 |
| O,P'-DDT | 3 | 100 | 0.024 | 0.038 | 0.079 | < 0 | 0.011 | 0.078 |
| OXYCHLORDANE | 3 | 67 | 0.0023 | 0.0021 | 0.0028 | 0.0014 | ND | 0.0023 |
| PENTACHLOROANISOLE | 3 | 100 | 0.0024 | 0.0020 | 0.0034 | 0.00068 | 0.00071 | 0.0029 |
| PENTACHLOROBENZENE | 3 | 100 | 0.0029 | 0.0043 | 0.0084 | 0.00016 | 0.0016 | 0.0084 |
| TRANS-NONACHLOR | 3 | 100 | 0.0029 | 0.0034 | 0.0054 | 0.0014 | 0.0019 | 0.0053 |

# Table C-29
# Vernal Pools
# Summary of Detected Appendix IX Pesticides (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| 1,2,3,4-TETRACHLOROBENZENE | 2 | 100 | 0.071 | 0.071 | NA | NA | 0.052 | 0.090 |
| 1,2,4,5-TETRACHLOROBENZENE | 2 | 100 | 0.070 | 0.070 | NA | NA | 0.023 | 0.12 |
| 4,4'-DDD | 11 | 27 | 0.36 | 0.38 | 0.57 | 0.20 | ND | 0.39 |
| 4,4'-DDE | 11 | 18 | 0.22 | 0.36 | 0.55 | 0.17 | ND | 0.20 |
| 4,4'-DDT | 9 | 22 | 0.22 | 0.61 | 1.2 | 0.021 | ND | 2.8 |
| ALPHA-BHC | 11 | 9 | 0.11 | 0.17 | 0.27 | 0.069 | ND | 0.0021 |
| ALPHA-CHLORDANE | 2 | 50 | 0.0019 | 0.0019 | NA | NA | ND | 0.0015 |
| CIS-NONACHLOR | 2 | 100 | 0.34 | 0.34 | NA | NA | 0.13 | 0.55 |
| DIELDRIN | 10 | 20 | 0.29 | 0.36 | 0.58 | 0.14 | ND | 0.0082 |
| ENDOSULFAN II | 11 | 18 | 0.22 | 0.36 | 0.55 | 0.16 | ND | 0.14 |
| ENDRIN | 11 | 9 | 0.22 | 0.34 | 0.54 | 0.14 | ND | 0.0068 |
| GAMMA BHC (LINDANE) | 11 | 9 | 0.11 | 0.17 | 0.27 | 0.069 | ND | 0.00085 |
| GAMMA-CHLORDANE | 2 | 100 | 0.0011 | 0.0011 | NA | NA | 0.00042 | 0.0018 |
| HEPTACHLOR | 11 | 9 | 0.11 | 0.17 | 0.27 | 0.069 | ND | 0.0011 |
| HEPTACHLOR EPOXIDE | 11 | 9 | 0.11 | 0.17 | 0.27 | 0.070 | ND | 0.0058 |
| HEXACHLOROBENZENE | 2 | 100 | 0.0064 | 0.0064 | NA | NA | 0.0055 | 0.0074 |
| MIREX | 2 | 50 | 0.0062 | 0.0062 | NA | NA | ND | 0.011 |
| O,P'-DDD | 2 | 100 | 0.35 | 0.35 | NA | NA | 0.14 | 0.57 |
| O,P'-DDE | 2 | 100 | 0.026 | 0.026 | NA | NA | 0.0057 | 0.047 |
| O,P'-DDT | 2 | 100 | 0.44 | 0.44 | NA | NA | 0.22 | 0.66 |
| OXYCHLORDANE | 2 | 50 | 0.0060 | 0.0060 | NA | NA | ND | 0.0097 |
| PENTACHLOROANISOLE | 2 | 100 | 0.0021 | 0.0021 | NA | NA | 0.0017 | 0.0024 |
| PENTACHLOROBENZENE | 2 | 100 | 0.044 | 0.044 | NA | NA | 0.035 | 0.052 |
| TRANS-NONACHLOR | 2 | 50 | 0.0025 | 0.0025 | NA | NA | ND | 0.0027 |
| **Reach 5C - Roaring Brook Confluence to Woods Pond Headwaters** | | | | | | | | |
| 1,2,3,4-TETRACHLOROBENZENE | 2 | 100 | 0.0072 | 0.0072 | NA | NA | 0.0036 | 0.011 |
| 1,2,4,5-TETRACHLOROBENZENE | 2 | 100 | 0.0082 | 0.0082 | NA | NA | 0.0060 | 0.011 |

# Table C-29
# Vernal Pools
# Summary of Detected Appendix IX Pesticides (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 5 | 40 | 0.012 | 0.014 | 0.023 | 0.0053 | ND | 0.015 |
| 4,4'-DDE | 5 | 40 | 0.031 | 0.031 | 0.052 | 0.011 | ND | 0.068 |
| 4,4'-DDT | 5 | 60 | 0.026 | 0.027 | 0.041 | 0.012 | ND | 0.052 |
| ALDRIN | 5 | 40 | 0.0055 | 0.0063 | 0.011 | 0.0013 | ND | 0.0038 |
| ALPHA-BHC | 5 | 20 | 0.0055 | 0.0059 | 0.011 | 0.00064 | ND | 0.00026 |
| ALPHA-CHLORDANE | 2 | 100 | 0.0056 | 0.0056 | NA | NA | 0.0018 | 0.0093 |
| BETA-BHC | 5 | 20 | 0.0055 | 0.0060 | 0.011 | 0.00094 | ND | 0.0015 |
| CHLORPYRIFOS | 2 | 100 | 0.0047 | 0.0047 | NA | NA | 0.0013 | 0.0082 |
| CIS-NONACHLOR | 2 | 100 | 0.019 | 0.019 | NA | NA | 0.0057 | 0.032 |
| DELTA-BHC | 5 | 20 | 0.0055 | 0.0059 | 0.011 | 0.00064 | ND | 0.00026 |
| DIELDRIN | 5 | 40 | 0.011 | 0.012 | 0.022 | 0.0016 | ND | 0.0038 |
| ENDOSULFAN II | 5 | 40 | 0.012 | 0.014 | 0.024 | 0.0052 | ND | 0.016 |
| ENDRIN | 5 | 20 | 0.011 | 0.012 | 0.022 | 0.0021 | ND | 0.0058 |
| GAMMA BHC (LINDANE) | 5 | 40 | 0.0055 | 0.0063 | 0.011 | 0.0013 | ND | 0.0035 |
| HEPTACHLOR | 5 | 20 | 0.0055 | 0.0060 | 0.011 | 0.00095 | ND | 0.0010 |
| HEXACHLOROBENZENE | 2 | 100 | 0.0020 | 0.0020 | NA | NA | 0.0013 | 0.0026 |
| O,P'-DDD | 2 | 100 | 0.022 | 0.022 | NA | NA | 0.0073 | 0.037 |
| O,P'-DDE | 2 | 50 | 0.0024 | 0.0024 | NA | NA | ND | 0.0044 |
| O,P'-DDT | 2 | 100 | 0.034 | 0.034 | NA | NA | 0.017 | 0.050 |
| OXYCHLORDANE | 2 | 50 | 0.0036 | 0.0036 | NA | NA | ND | 0.0055 |
| PENTACHLOROANISOLE | 2 | 100 | 0.0015 | 0.0015 | NA | NA | 0.0010 | 0.0020 |
| PENTACHLOROBENZENE | 2 | 100 | 0.0027 | 0.0027 | NA | NA | 0.0013 | 0.0041 |
| TRANS-NONACHLOR | 2 | 100 | 0.0040 | 0.0040 | NA | NA | 0.0022 | 0.0059 |

Notes:

1. All EPA (1999-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.
5. NA = Analysis not conducted due to sample size (n<3).

**General Electric Company**
**Housatonic River - Rest of River**
**RFI Report**

# Table C-30
# Vernal Pools
# Summary of Detected Inorganics (mg/kg)

| Constituent | Number of Samples | Frequency of Detection (%) | Median | Arithmetic Mean | +2 Standard Errors | -2 Standard Errors | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| **Reach 5B - Pittsfield WWTP to Roaring Brook Confluence** | | | | | | | | |
| SULFIDE | 8 | 13 | 9.1 | 17 | 32 | 2.0 | ND | 69 |

Notes:
1. All EPA (1999-00) data are included.
2. Non-detected values were assigned a value of one-half the detection limit prior to calculation.
3. Duplicate samples were averaged.
4. ND = Not Detected.

# Table C-31
# PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 5 - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Bluegill Skin-off Fillet** | | | | | | | | |
| 1,2,3,4,7,8,9-HPCDF | 1 | 100 | -- | - | -- | -- | 9.00E-07 | -- |
| 1,2,3,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 7.60E-06 | -- |
| 2,3,4,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 1.40E-06 | -- |
| 2,3,7,8-TCDF | 1 | 100 | -- | - | -- | -- | 3.60E-06 | -- |
| WHO TEQ (Human/Mammal) | 1 | -- | -- | - | -- | -- | 6.25E-06 | -- |
| **Bluegill Offal** | | | | | | | | |
| WHO TEQ (Human/Mammal) | 1 | -- | -- | - | -- | -- | 1.24E-05 | -- |
| **Bluegill Whole Body Reconstructed** | | | | | | | | |
| 1,2,3,4,7,8,9-HPCDF | 1 | 100 | -- | - | -- | -- | 6.55E-06 | -- |
| 1,2,3,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 9.06E-06 | -- |
| 2,3,4,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 6.74E-06 | -- |
| 2,3,7,8-TCDF | 1 | 100 | -- | - | -- | -- | 2.59E-06 | -- |
| WHO TEQ (Human/Mammal) | 1 | -- | -- | - | -- | -- | 1.01E-05 | -- |
| **Brown Bullhead Skin-off Fillet** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 16 | 69 | ND | - | 1.37E-05 | 2.75E-06 | 3.93E-06 | 8.28E-07 |
| 1,2,3,4,7,8-HXCDF | 16 | 19 | ND | - | 3.40E-06 | 2.33E-06 | 2.35E-06 | 1.25E-07 |
| 1,2,3,6,7,8-HXCDF | 16 | 6 | ND | - | 3.40E-06 | 2.38E-06 | 2.31E-06 | 1.55E-07 |
| 1,2,3,7,8-PECDD | 16 | 6 | ND | - | 3.40E-06 | 2.38E-06 | 2.31E-06 | 1.55E-07 |
| 1,2,3,7,8-PECDF | 16 | 94 | ND | - | 1.89E-04 | 1.36E-05 | 3.22E-05 | 1.16E-05 |
| 2,3,4,6,7,8-HXCDF | 16 | 6 | ND | - | 3.40E-06 | 2.38E-06 | 2.32E-06 | 1.50E-07 |
| 2,3,4,7,8-PECDF | 16 | 94 | ND | - | 3.93E-05 | 1.30E-05 | 1.40E-05 | 2.14E-06 |
| 2,3,7,8-TCDD | 16 | 19 | ND | - | 1.20E-06 | 5.00E-07 | 5.91E-07 | 5.52E-08 |
| 2,3,7,8-TCDF | 16 | 75 | ND | - | 5.25E-05 | 4.65E-06 | 8.27E-06 | 3.13E-06 |
| OCDD | 16 | 19 | ND | - | 6.75E-06 | 4.75E-06 | 4.31E-06 | 4.09E-07 |
| WHO TEQ (Human/Mammal) | 16 | -- | 8.14E-06 | - | 3.44E-05 | 1.25E-05 | 1.41E-05 | 1.53E-06 |
| **Brown Bullhead Offal** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 16 | 19 | ND | - | 3.00E-06 | 2.40E-06 | 2.23E-06 | 1.01E-07 |
| 1,2,3,4,6,7,8-HPCDF | 16 | 62 | ND | - | 7.96E-05 | 3.40E-06 | 1.11E-05 | 4.88E-06 |
| 1,2,3,4,7,8-HXCDF | 16 | 50 | ND | - | 1.96E-05 | 2.49E-06 | 5.31E-06 | 1.29E-06 |
| 1,2,3,6,7,8-HXCDF | 16 | 38 | ND | - | 2.80E-06 | 2.08E-06 | 2.11E-06 | 1.04E-07 |
| 1,2,3,7,8-PECDF | 16 | 100 | 5.90E-06 | - | 2.28E-03 | 5.32E-05 | 2.47E-04 | 1.39E-04 |
| 2,3,4,6,7,8-HXCDF | 16 | 44 | ND | - | 8.00E-06 | 2.49E-06 | 2.98E-06 | 4.41E-07 |
| 2,3,4,7,8-PECDF | 16 | 100 | 1.45E-05 | - | 9.15E-05 | 4.34E-05 | 4.98E-05 | 5.77E-06 |
| 2,3,7,8-TCDD | 16 | 19 | ND | - | 3.30E-06 | 4.95E-07 | 7.46E-07 | 1.96E-07 |
| 2,3,7,8-TCDF | 16 | 100 | 6.00E-06 | - | 7.17E-05 | 1.76E-05 | 1.98E-05 | 3.70E-06 |
| OCDD | 16 | 38 | ND | - | 5.61E-05 | 4.95E-06 | 8.65E-06 | 3.24E-06 |
| OCDF | 16 | 19 | ND | - | 9.62E-05 | 4.84E-06 | 9.92E-06 | 5.76E-06 |
| WHO TEQ (Human/Mammal) | 16 | -- | 1.38E-05 | - | 1.61E-04 | 3.13E-05 | 4.42E-05 | 8.80E-06 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 5 - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Brown Bullhead Whole Body Reconstructed** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 16 | 69 | ND | - | 5.79E-05 | 4.79E-06 | 9.66E-06 | 3.45E-06 |
| 1,2,3,4,7,8-HXCDF | 16 | 19 | ND | - | 1.59E-05 | 4.90E-06 | 5.84E-06 | 8.74E-07 |
| 1,2,3,6,7,8-HXCDF | 16 | 6 | ND | - | 4.95E-06 | 3.56E-06 | 3.69E-06 | 2.13E-07 |
| 1,2,3,7,8-PECDD | 16 | 6 | ND | - | 5.43E-06 | 4.84E-06 | 4.43E-06 | 2.05E-07 |
| 1,2,3,7,8-PECDF | 16 | 94 | ND | - | 1.61E-03 | 4.59E-05 | 1.83E-04 | 9.80E-05 |
| 2,3,4,6,7,8-HXCDF | 16 | 6 | ND | - | 7.21E-06 | 4.40E-06 | 4.26E-06 | 3.34E-07 |
| 2,3,4,7,8-PECDF | 16 | 94 | ND | - | 7.49E-05 | 3.59E-05 | 3.99E-05 | 4.59E-06 |
| 2,3,7,8-TCDD | 16 | 19 | ND | - | 2.61E-06 | 9.72E-07 | 1.09E-06 | 1.19E-07 |
| 2,3,7,8-TCDF | 16 | 75 | ND | - | 5.89E-05 | 1.42E-05 | 1.78E-05 | 3.56E-06 |
| OCDD | 16 | 19 | ND | - | 4.39E-05 | 9.69E-06 | 1.07E-05 | 2.31E-06 |
| WHO TEQ (Human/Mammal) | 16 | -- | 1.26E-05 | - | 1.17E-04 | 2.60E-05 | 3.56E-05 | 6.37E-06 |
| **Brown Bullhead Whole Body** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 1 | 100 | -- | - | -- | -- | 3.00E-07 | -- |
| 1,2,3,4,6,7,8-HPCDF | 1 | 100 | -- | - | -- | -- | 1.19E-05 | -- |
| 1,2,3,6,7,8-HXCDF | 1 | 100 | -- | - | -- | -- | 7.00E-07 | -- |
| 1,2,3,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 1.56E-04 | -- |
| 2,3,4,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 3.52E-05 | -- |
| 2,3,7,8-TCDF | 1 | 100 | -- | - | -- | -- | 9.20E-06 | -- |
| WHO TEQ (Human/Mammal) | 1 | -- | -- | - | -- | -- | 2.97E-05 | -- |

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Brown Bullhead Skin-off Fillet** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 33 | ND | - | 5.95E-06 | 2.45E-06 | 2.66E-06 | 4.59E-07 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 87 | ND | - | 1.11E-04 | 3.52E-06 | 1.25E-05 | 7.26E-06 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 27 | ND | - | 5.95E-06 | 2.45E-06 | 2.74E-06 | 4.75E-07 |
| 1,2,3,4,7,8-HXCDD | 15 | 13 | ND | - | 5.95E-06 | 2.45E-06 | 3.02E-06 | 4.05E-07 |
| 1,2,3,4,7,8-HXCDF | 15 | 40 | ND | - | 5.95E-06 | 2.45E-06 | 3.24E-06 | 3.59E-07 |
| 1,2,3,6,7,8-HXCDD | 15 | 27 | ND | - | 5.95E-06 | 2.45E-06 | 2.80E-06 | 4.33E-07 |
| 1,2,3,6,7,8-HXCDF | 15 | 53 | ND | - | 5.95E-06 | 2.25E-06 | 2.56E-06 | 4.48E-07 |
| 1,2,3,7,8,9-HXCDD | 15 | 13 | ND | - | 5.95E-06 | 2.45E-06 | 3.01E-06 | 4.08E-07 |
| 1,2,3,7,8,9-HXCDF | 15 | 13 | ND | - | 5.95E-06 | 2.45E-06 | 3.02E-06 | 4.04E-07 |
| 1,2,3,7,8-PECDD | 15 | 7 | ND | - | 5.95E-06 | 2.45E-06 | 3.18E-06 | 3.23E-07 |
| 1,2,3,7,8-PECDF | 15 | 100 | 7.60E-06 | - | 4.08E-04 | 3.80E-05 | 7.02E-05 | 2.73E-05 |
| 2,3,4,6,7,8-HXCDF | 15 | 47 | ND | - | 5.95E-06 | 2.40E-06 | 2.75E-06 | 4.04E-07 |
| 2,3,4,7,8-PECDF | 15 | 100 | 1.24E-05 | - | 4.20E-05 | 2.34E-05 | 2.41E-05 | 2.60E-06 |
| 2,3,7,8-TCDD | 15 | 33 | ND | - | 1.19E-06 | 7.00E-07 | 7.04E-07 | 6.25E-08 |
| 2,3,7,8-TCDF | 15 | 93 | ND | - | 4.34E-05 | 1.40E-05 | 1.57E-05 | 2.76E-06 |
| OCDD | 15 | 40 | ND | - | 1.19E-05 | 4.90E-06 | 5.26E-06 | 9.58E-07 |
| OCDF | 15 | 27 | ND | - | 1.19E-05 | 4.90E-06 | 5.61E-06 | 8.91E-07 |
| WHO TEQ (Human/Mammal) | 15 | -- | 1.35E-05 | - | 5.46E-05 | 2.14E-05 | 2.32E-05 | 2.67E-06 |
| **Brown Bullhead Offal** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 60 | ND | - | 4.50E-06 | 2.49E-06 | 2.70E-06 | 2.07E-07 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 100 | 2.60E-06 | - | 5.33E-05 | 1.32E-05 | 1.62E-05 | 3.69E-06 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 27 | ND | - | 2.49E-06 | 2.35E-06 | 1.89E-06 | 1.95E-07 |
| 1,2,3,4,7,8-HXCDD | 15 | 40 | ND | - | 2.49E-06 | 1.90E-06 | 1.66E-06 | 2.07E-07 |
| 1,2,3,4,7,8-HXCDF | 15 | 27 | ND | - | 9.80E-06 | 2.35E-06 | 3.65E-06 | 7.24E-07 |
| 1,2,3,6,7,8-HXCDD | 15 | 40 | ND | - | 4.90E-06 | 2.46E-06 | 2.66E-06 | 2.25E-07 |
| 1,2,3,6,7,8-HXCDF | 15 | 73 | ND | - | 6.10E-06 | 2.90E-06 | 3.22E-06 | 4.41E-07 |
| 1,2,3,7,8,9-HXCDD | 15 | 13 | ND | - | 2.49E-06 | 2.35E-06 | 2.04E-06 | 1.52E-07 |
| 1,2,3,7,8,9-HXCDF | 15 | 13 | ND | - | 2.49E-06 | 2.35E-06 | 1.99E-06 | 1.77E-07 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998** — **Brown Bullhead - Offal (continued)**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,2,3,7,8-PECDD | 15 | 20 | ND | - | 4.60E-06 | 2.39E-06 | 2.43E-06 | 1.79E-07 |
| 1,2,3,7,8-PECDF | 15 | 100 | 1.92E-05 | - | 2.89E-04 | 1.26E-04 | 1.25E-04 | 2.39E-05 |
| 2,3,4,6,7,8-HXCDF | 15 | 73 | ND | - | 1.26E-05 | 4.40E-06 | 4.68E-06 | 7.37E-07 |
| 2,3,4,7,8-PECDF | 15 | 100 | 1.99E-05 | - | 1.29E-04 | 6.29E-05 | 6.57E-05 | 7.18E-06 |
| 2,3,7,8-TCDD | 15 | 47 | ND | - | 4.80E-06 | 4.95E-07 | 1.75E-06 | 4.20E-07 |
| 2,3,7,8-TCDF | 15 | 93 | ND | - | 4.65E-05 | 2.65E-05 | 2.39E-05 | 3.03E-06 |
| OCDD | 15 | 73 | ND | - | 2.07E-05 | 1.15E-05 | 9.20E-06 | 1.53E-06 |
| OCDF | 15 | 67 | ND | - | 2.31E-05 | 4.30E-06 | 4.53E-06 | 1.40E-06 |
| WHO TEQ (Human/Mammal) | 15 | -- | 2.21E-05 | - | 9.38E-05 | 4.57E-05 | 4.79E-05 | 4.72E-06 |

**Brown Bullhead Whole Body Reconstructed**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| 1,2,3,4,6,7,8-HPCDD | 15 | 33 | ND | - | 6.21E-06 | 4.39E-06 | 3.96E-06 | 3.89E-07 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 87 | ND | - | 6.53E-05 | 1.11E-05 | 1.53E-05 | 4.22E-06 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 27 | ND | - | 6.70E-06 | 4.64E-06 | 3.99E-06 | 5.39E-07 |
| 1,2,3,4,7,8-HXCDD | 15 | 13 | ND | - | 6.70E-06 | 4.05E-06 | 3.72E-06 | 5.28E-07 |
| 1,2,3,4,7,8-HXCDF | 15 | 40 | ND | - | 7.92E-06 | 4.62E-06 | 5.14E-06 | 3.68E-07 |
| 1,2,3,6,7,8-HXCDD | 15 | 27 | ND | - | 6.70E-06 | 4.21E-06 | 4.32E-06 | 3.70E-07 |
| 1,2,3,6,7,8-HXCDF | 15 | 53 | ND | - | 6.83E-06 | 4.06E-06 | 3.91E-06 | 3.55E-07 |
| 1,2,3,7,8,9-HXCDD | 15 | 13 | ND | - | 6.70E-06 | 4.64E-06 | 4.45E-06 | 4.25E-07 |
| 1,2,3,7,8,9-HXCDF | 15 | 13 | ND | - | 6.70E-06 | 4.64E-06 | 4.40E-06 | 4.12E-07 |
| 1,2,3,7,8-PECDD | 15 | 7 | ND | - | 6.70E-06 | 4.62E-06 | 4.68E-06 | 2.26E-07 |
| 1,2,3,7,8-PECDF | 15 | 100 | 1.83E-05 | - | 2.62E-04 | 1.06E-04 | 1.12E-04 | 2.22E-05 |
| 2,3,4,6,7,8-HXCDF | 15 | 47 | ND | - | 1.02E-05 | 4.67E-06 | 5.18E-06 | 4.90E-07 |
| 2,3,4,7,8-PECDF | 15 | 100 | 1.83E-05 | - | 1.08E-04 | 5.50E-05 | 5.56E-05 | 5.87E-06 |
| 2,3,7,8-TCDD | 15 | 33 | ND | - | 3.90E-06 | 1.34E-06 | 1.80E-06 | 2.73E-07 |
| 2,3,7,8-TCDF | 15 | 93 | ND | - | 3.81E-05 | 2.35E-05 | 2.18E-05 | 2.36E-06 |
| OCDD | 15 | 40 | ND | - | 1.65E-05 | 1.06E-05 | 1.02E-05 | 1.02E-06 |
| OCDF | 15 | 27 | ND | - | 2.09E-05 | 7.60E-06 | 7.23E-06 | 1.37E-06 |
| WHO TEQ (Human/Mammal) | 15 | -- | 2.20E-05 | - | 7.92E-05 | 3.95E-05 | 4.19E-05 | 3.84E-06 |

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

**Brown Bullhead Skin-off Fillet**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| 1,2,3,4,6,7,8-HPCDF | 7 | 57 | ND | - | 4.88E-05 | 2.70E-06 | 9.90E-06 | 6.54E-06 |
| 1,2,3,7,8-PECDF | 7 | 29 | ND | - | 3.40E-04 | 6.85E-06 | 5.42E-05 | 4.76E-05 |
| 2,3,7,8-TCDF | 7 | 29 | ND | - | 2.32E-05 | 7.45E-06 | 8.71E-06 | 2.51E-06 |
| WHO TEQ (Human/Mammal) | 7 | -- | 6.32E-06 | - | 2.44E-05 | 7.21E-06 | 1.00E-05 | 2.44E-06 |

**Brown Bullhead Offal**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| 1,2,3,4,6,7,8-HPCDF | 7 | 43 | ND | - | 2.52E-05 | 2.50E-06 | 6.23E-06 | 3.21E-06 |
| 1,2,3,4,7,8-HXCDF | 7 | 14 | ND | - | 2.22E-05 | 2.40E-06 | 5.22E-06 | 2.83E-06 |
| 1,2,3,7,8-PECDF | 7 | 100 | 2.40E-06 | - | 1.01E-04 | 3.50E-06 | 1.93E-05 | 1.37E-05 |
| 2,3,4,7,8-PECDF | 7 | 100 | 1.25E-05 | - | 2.67E-05 | 1.50E-05 | 1.62E-05 | 1.89E-06 |
| 2,3,7,8-TCDF | 7 | 100 | 1.10E-05 | - | 2.21E-05 | 1.32E-05 | 1.43E-05 | 1.46E-06 |
| WHO TEQ (Human/Mammal) | 7 | -- | 1.20E-05 | - | 2.15E-05 | 1.35E-05 | 1.52E-05 | 1.54E-06 |

**Brown Bullhead Whole Body Reconstructed**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| 1,2,3,4,6,7,8-HPCDF | 7 | 57 | ND | - | 1.91E-05 | 4.50E-06 | 8.18E-06 | 2.41E-06 |
| 1,2,3,7,8-PECDF | 7 | 29 | ND | - | 8.29E-05 | 5.24E-06 | 2.78E-05 | 1.32E-05 |
| 2,3,7,8-TCDF | 7 | 29 | ND | - | 2.24E-05 | 1.33E-05 | 1.42E-05 | 1.60E-06 |
| WHO TEQ (Human/Mammal) | 7 | -- | 1.06E-05 | - | 1.77E-05 | 1.25E-05 | 1.38E-05 | 1.12E-06 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1990**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Brown Trout Skin-on, Scales-off Fillet | | | | | | | |
| WHO TEQ (Human/Mammal) | 1 | -- | -- | - | -- | -- | 2.06E-05 | -- |

**Sample Location: REACH 8 - HOUSATONIC RIVER RISING POND**

**Sample Year: 1990**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Brown Trout Skin-on, Scales-off Fillet | | | | | | | |
| WHO TEQ (Human/Mammal) | 1 | -- | -- | - | -- | -- | 1.45E-05 | -- |

**Sample Location: REACH 5 - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Fallfish Whole-body Composite | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 5 | 20 | ND | - | 1.13E-05 | 2.47E-06 | 4.29E-06 | 1.75E-06 |
| 1,2,3,4,6,7,8-HPCDF | 5 | 60 | ND | - | 3.06E-05 | 4.90E-06 | 1.23E-05 | 6.01E-06 |
| 1,2,3,4,7,8-HXCDF | 5 | 20 | ND | - | 8.90E-06 | 2.47E-06 | 4.22E-06 | 1.26E-06 |
| 1,2,3,7,8-PECDF | 5 | 100 | 3.80E-06 | - | 2.55E-04 | 4.70E-06 | 8.43E-05 | 5.16E-05 |
| 2,3,4,7,8-PECDF | 5 | 80 | ND | - | 1.04E-05 | 4.50E-06 | 5.62E-06 | 1.43E-06 |
| 2,3,7,8-TCDF | 5 | 100 | 2.55E-05 | - | 6.89E-05 | 4.69E-05 | 4.71E-05 | 8.95E-06 |
| OCDD | 5 | 60 | ND | - | 9.81E-06 | 2.00E-06 | 3.87E-06 | 1.63E-06 |
| OCDF | 5 | 20 | ND | - | 9.81E-06 | 4.93E-06 | 5.09E-06 | 1.54E-06 |
| WHO TEQ (Human/Mammal) | 5 | -- | 9.25E-06 | - | 3.12E-05 | 1.80E-05 | 1.78E-05 | 3.99E-06 |
| | Golden shiner Whole-body Composite | | | | | | | |
| Constituent | Samples | Detection (%) | Range | | | Median | Mean[3] | Error |
| 1,2,3,4,6,7,8-HPCDF | 5 | 40 | ND | - | 2.38E-05 | 3.80E-06 | 7.43E-06 | 4.12E-06 |
| 1,2,3,6,7,8-HXCDF | 5 | 20 | ND | - | 2.38E-05 | 2.50E-06 | 6.79E-06 | 4.31E-06 |
| 1,2,3,7,8-PECDF | 5 | 60 | ND | - | 8.82E-05 | 1.21E-05 | 2.92E-05 | 1.54E-05 |
| 2,3,4,6,7,8-HXCDF | 5 | 20 | ND | - | 2.38E-05 | 2.50E-06 | 6.70E-06 | 4.33E-06 |
| 2,3,4,7,8-PECDF | 5 | 40 | ND | - | 2.45E-05 | 1.42E-05 | 1.39E-05 | 3.20E-06 |
| 2,3,7,8-TCDD | 5 | 20 | ND | - | 4.75E-06 | 5.00E-07 | 1.44E-06 | 8.32E-07 |
| 2,3,7,8-TCDF | 5 | 40 | ND | - | 9.35E-05 | 4.84E-05 | 5.15E-05 | 1.36E-05 |
| OCDF | 5 | 20 | ND | - | 4.76E-05 | 4.95E-06 | 1.34E-05 | 8.67E-06 |
| WHO TEQ (Human/Mammal) | 5 | -- | 9.20E-06 | - | 6.91E-05 | 2.05E-05 | 2.71E-05 | 1.07E-05 |

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Golden shiner Whole-body Composite | | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 5 | 80 | ND | - | 1.22E-05 | 6.00E-06 | 6.45E-06 | 1.97E-06 |
| 1,2,3,4,7,8,9-HPCDF | 5 | 20 | ND | - | 2.02E-05 | 9.35E-06 | 9.85E-06 | 3.06E-06 |
| 1,2,3,4,7,8-HXCDD | 5 | 20 | ND | - | 2.69E-05 | 6.00E-06 | 9.50E-06 | 4.53E-06 |
| 1,2,3,6,7,8-HXCDD | 5 | 40 | ND | - | 2.69E-05 | 9.35E-06 | 1.14E-05 | 5.31E-06 |
| 1,2,3,7,8-PECDF | 5 | 60 | ND | - | 2.26E-04 | 2.69E-05 | 7.97E-05 | 4.40E-05 |
| 2,3,4,6,7,8-HXCDF | 5 | 20 | ND | - | 2.69E-05 | 9.35E-06 | 1.29E-05 | 4.61E-06 |
| 2,3,4,7,8-PECDF | 5 | 80 | ND | - | 3.05E-05 | 2.34E-05 | 2.18E-05 | 3.45E-06 |
| 2,3,7,8-TCDD | 5 | 20 | ND | - | 5.40E-06 | 1.85E-06 | 2.72E-06 | 8.56E-07 |
| 2,3,7,8-TCDF | 5 | 80 | ND | - | 1.17E-04 | 5.30E-05 | 6.21E-05 | 2.03E-05 |
| OCDF | 5 | 40 | ND | - | 4.03E-05 | 1.87E-05 | 2.13E-05 | 7.41E-06 |
| WHO TEQ (Human/Mammal) | 5 | -- | 1.82E-05 | - | 7.54E-05 | 3.94E-05 | 4.55E-05 | 1.11E-05 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 5 - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Goldfish Whole-body | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 40 | ND | - | 4.50E-06 | 1.80E-06 | 2.21E-06 | 2.44E-07 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 93 | ND | - | 6.51E-04 | 5.52E-05 | 1.16E-04 | 4.20E-05 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 7 | ND | - | 1.90E-06 | 1.57E-06 | 1.60E-06 | 3.72E-08 |
| 1,2,3,4,7,8-HXCDF | 15 | 27 | ND | - | 4.93E-04 | 1.75E-06 | 6.23E-05 | 3.65E-05 |
| 1,2,3,6,7,8-HXCDF | 15 | 13 | ND | - | 5.70E-06 | 1.57E-06 | 1.83E-06 | 2.92E-07 |
| 1,2,3,7,8-PECDD | 15 | 7 | ND | - | 8.00E-06 | 1.60E-06 | 2.08E-06 | 4.25E-07 |
| 1,2,3,7,8-PECDF | 15 | 100 | 6.58E-05 | - | 1.24E-03 | 3.07E-04 | 4.08E-04 | 7.97E-05 |
| 2,3,4,6,7,8-HXCDF | 15 | 33 | ND | - | 8.90E-06 | 1.57E-06 | 2.93E-06 | 6.93E-07 |
| 2,3,4,7,8-PECDF | 15 | 100 | 1.00E-05 | - | 1.53E-04 | 3.30E-05 | 4.39E-05 | 9.08E-06 |
| 2,3,7,8-TCDD | 15 | 53 | ND | - | 8.30E-06 | 1.60E-06 | 2.10E-06 | 6.03E-07 |
| 2,3,7,8-TCDF | 15 | 73 | ND | - | 2.46E-05 | 9.90E-06 | 9.91E-06 | 2.17E-06 |
| OCDD | 15 | 60 | ND | - | 1.74E-05 | 3.30E-06 | 6.96E-06 | 1.45E-06 |
| OCDF | 15 | 33 | ND | - | 9.40E-06 | 3.14E-06 | 3.67E-06 | 4.62E-07 |
| WHO TEQ (Human/Mammal) | 15 | -- | 2.26E-05 | - | 1.06E-04 | 4.54E-05 | 5.60E-05 | 7.55E-06 |

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Goldfish Whole-body | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 14 | 71 | ND | - | 4.80E-06 | 1.83E-06 | 2.25E-06 | 3.32E-07 |
| 1,2,3,4,6,7,8-HPCDF | 14 | 100 | 2.90E-06 | - | 3.01E-04 | 3.16E-05 | 6.58E-05 | 2.44E-05 |
| 1,2,3,4,7,8,9-HPCDF | 14 | 36 | ND | - | 2.25E-06 | 1.59E-06 | 1.48E-06 | 1.46E-07 |
| 1,2,3,4,7,8-HXCDD | 14 | 14 | ND | - | 3.50E-06 | 1.73E-06 | 1.85E-06 | 1.68E-07 |
| 1,2,3,4,7,8-HXCDF | 14 | 86 | ND | - | 2.57E-04 | 1.18E-05 | 6.41E-05 | 2.53E-05 |
| 1,2,3,6,7,8-HXCDD | 14 | 21 | ND | - | 2.25E-06 | 1.60E-06 | 1.52E-06 | 1.68E-07 |
| 1,2,3,6,7,8-HXCDF | 14 | 50 | ND | - | 8.60E-06 | 2.03E-06 | 2.74E-06 | 5.52E-07 |
| 1,2,3,7,8,9-HXCDD | 14 | 14 | ND | - | 2.25E-06 | 1.63E-06 | 1.59E-06 | 1.53E-07 |
| 1,2,3,7,8,9-HXCDF | 14 | 14 | ND | - | 2.25E-06 | 1.63E-06 | 1.55E-06 | 1.54E-07 |
| 1,2,3,7,8-PECDD | 14 | 14 | ND | - | 7.20E-06 | 1.71E-06 | 2.17E-06 | 3.93E-07 |
| 1,2,3,7,8-PECDF | 14 | 71 | ND | - | 4.78E-04 | 2.36E-04 | 2.24E-04 | 4.55E-05 |
| 2,3,4,6,7,8-HXCDF | 14 | 64 | ND | - | 9.80E-06 | 4.35E-06 | 4.69E-06 | 8.49E-07 |
| 2,3,4,7,8-PECDF | 14 | 93 | ND | - | 1.41E-04 | 6.36E-05 | 6.62E-05 | 9.97E-06 |
| 2,3,7,8-TCDD | 14 | 86 | ND | - | 1.03E-05 | 4.45E-06 | 4.43E-06 | 8.19E-07 |
| 2,3,7,8-TCDF | 14 | 36 | ND | - | 2.74E-05 | 1.17E-05 | 1.32E-05 | 2.00E-06 |
| OCDD | 14 | 57 | ND | - | 1.10E-05 | 4.15E-06 | 5.05E-06 | 8.30E-07 |
| OCDF | 14 | 36 | ND | - | 4.50E-06 | 3.17E-06 | 2.70E-06 | 3.51E-07 |
| WHO TEQ (Human/Mammal) | 14 | -- | 1.40E-05 | - | 1.04E-04 | 6.73E-05 | 6.07E-05 | 7.68E-06 |

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1990**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Largemouth Bass Skin-on, Scales-off Fillet | | | | | | | |
| 2,3,7,8-TCDF | 1 | 100 | -- | - | -- | -- | 2.40E-05 | -- |
| WHO TEQ (Human/Mammal) | 1 | -- | -- | - | -- | -- | 4.86E-05 | -- |

# Table C-31
# PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Largemouth Bass Skin-off Fillet** | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 10 | 20 | ND | - | 5.90E-06 | 1.65E-06 | 2.33E-06 | 4.30E-07 |
| 1,2,3,4,6,7,8-HPCDF | 10 | 20 | ND | - | 3.81E-05 | 1.65E-06 | 5.80E-06 | 3.61E-06 |
| 1,2,3,4,7,8,9-HPCDF | 10 | 20 | ND | - | 4.00E-06 | 1.65E-06 | 2.20E-06 | 2.96E-07 |
| 1,2,3,4,7,8-HXCDF | 10 | 20 | ND | - | 4.18E-05 | 1.65E-06 | 5.70E-06 | 4.01E-06 |
| 1,2,3,6,7,8-HXCDF | 10 | 20 | ND | - | 2.35E-06 | 1.65E-06 | 1.67E-06 | 1.10E-07 |
| 1,2,3,7,8,9-HXCDF | 10 | 20 | ND | - | 2.40E-06 | 1.65E-06 | 1.87E-06 | 1.06E-07 |
| 1,2,3,7,8-PECDF | 10 | 30 | ND | - | 8.20E-05 | 3.30E-06 | 1.42E-05 | 8.02E-06 |
| 2,3,4,6,7,8-HXCDF | 10 | 20 | ND | - | 2.40E-06 | 1.65E-06 | 1.87E-06 | 1.06E-07 |
| 2,3,4,7,8-PECDF | 10 | 50 | ND | - | 6.50E-06 | 3.68E-06 | 3.76E-06 | 6.35E-07 |
| 2,3,7,8-TCDD | 10 | 10 | ND | - | 5.00E-07 | 3.50E-07 | 3.85E-07 | 2.36E-08 |
| 2,3,7,8-TCDF | 10 | 90 | ND | - | 1.92E-05 | 1.35E-05 | 1.37E-05 | 7.40E-07 |
| OCDD | 10 | 30 | ND | - | 1.89E-05 | 3.28E-06 | 4.58E-06 | 1.63E-06 |
| OCDF | 10 | 30 | ND | - | 1.49E-05 | 3.28E-06 | 4.04E-06 | 1.26E-06 |
| WHO TEQ (Human/Mammal) | 10 | -- | 5.33E-06 | - | 1.75E-05 | 6.86E-06 | 7.94E-06 | 1.15E-06 |
| | **Largemouth Bass Offal** | | | | | | | |
| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
| 1,2,3,4,6,7,8-HPCDD | 10 | 10 | ND | - | 2.45E-06 | 1.65E-06 | 1.66E-06 | 1.09E-07 |
| 1,2,3,4,6,7,8-HPCDF | 10 | 100 | 1.20E-06 | - | 1.62E-04 | 4.24E-05 | 5.15E-05 | 1.61E-05 |
| 1,2,3,4,7,8,9-HPCDF | 10 | 20 | ND | - | 1.65E-06 | 1.65E-06 | 1.50E-06 | 1.04E-07 |
| 1,2,3,4,7,8-HXCDF | 10 | 80 | ND | - | 2.90E-04 | 6.72E-05 | 8.91E-05 | 3.28E-05 |
| 1,2,3,6,7,8-HXCDF | 10 | 30 | ND | - | 2.45E-06 | 1.65E-06 | 1.39E-06 | 2.06E-07 |
| 1,2,3,7,8-PECDF | 10 | 100 | 3.30E-06 | - | 1.19E-03 | 2.18E-04 | 3.02E-04 | 1.10E-04 |
| 2,3,4,6,7,8-HXCDF | 10 | 10 | ND | - | 2.45E-06 | 1.65E-06 | 1.71E-06 | 8.36E-08 |
| 2,3,4,7,8-PECDF | 10 | 100 | 3.40E-06 | - | 6.96E-05 | 2.65E-05 | 2.91E-05 | 5.63E-06 |
| 2,3,7,8-TCDD | 10 | 70 | ND | - | 2.40E-06 | 1.40E-06 | 1.26E-06 | 2.30E-07 |
| 2,3,7,8-TCDF | 10 | 100 | 1.07E-05 | - | 6.85E-05 | 3.45E-05 | 3.68E-05 | 5.29E-06 |
| OCDD | 10 | 30 | ND | - | 5.10E-06 | 3.25E-06 | 3.17E-06 | 2.96E-07 |
| OCDF | 10 | 40 | ND | - | 3.30E-06 | 3.20E-06 | 2.68E-06 | 3.03E-07 |
| WHO TEQ (Human/Mammal) | 10 | -- | 5.95E-06 | - | 1.08E-04 | 3.91E-05 | 4.67E-05 | 9.46E-06 |
| | **Largemouth Bass Whole Body Reconstructed** | | | | | | | |
| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
| 1,2,3,4,6,7,8-HPCDD | 10 | 20 | ND | - | 4.83E-06 | 3.30E-06 | 3.37E-06 | 1.89E-07 |
| 1,2,3,4,6,7,8-HPCDF | 10 | 20 | ND | - | 1.20E-04 | 3.21E-05 | 3.90E-05 | 1.16E-05 |
| 1,2,3,4,7,8,9-HPCDF | 10 | 20 | ND | - | 3.51E-06 | 3.30E-06 | 3.06E-06 | 2.06E-07 |
| 1,2,3,4,7,8-HXCDF | 10 | 20 | ND | - | 2.14E-04 | 5.26E-05 | 6.59E-05 | 2.36E-05 |
| 1,2,3,6,7,8-HXCDF | 10 | 20 | ND | - | 4.83E-06 | 3.24E-06 | 2.75E-06 | 3.94E-07 |
| 1,2,3,7,8,9-HXCDF | 10 | 20 | ND | - | 4.83E-06 | 3.30E-06 | 3.40E-06 | 1.67E-07 |
| 1,2,3,7,8-PECDF | 10 | 30 | ND | - | 8.76E-04 | 1.57E-04 | 2.22E-04 | 8.07E-05 |
| 2,3,4,6,7,8-HXCDF | 10 | 20 | ND | - | 4.83E-06 | 3.29E-06 | 3.27E-06 | 2.20E-07 |
| 2,3,4,7,8-PECDF | 10 | 50 | ND | - | 5.33E-05 | 2.05E-05 | 2.21E-05 | 4.22E-06 |
| 2,3,7,8-TCDD | 10 | 10 | ND | - | 2.01E-06 | 1.21E-06 | 1.17E-06 | 1.36E-07 |
| 2,3,7,8-TCDF | 10 | 90 | ND | - | 5.29E-05 | 2.85E-05 | 3.02E-05 | 3.81E-06 |
| OCDD | 10 | 30 | ND | - | 1.07E-05 | 6.54E-06 | 5.95E-06 | 7.98E-07 |
| OCDF | 10 | 30 | ND | - | 9.32E-06 | 6.44E-06 | 5.19E-06 | 8.36E-07 |
| WHO TEQ (Human/Mammal) | 10 | -- | 5.75E-06 | - | 8.09E-05 | 3.06E-05 | 3.57E-05 | 6.93E-06 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Largemouth Bass Whole Fish** | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 5 | 20 | ND | - | 2.48E-06 | 2.45E-06 | 2.02E-06 | 4.07E-07 |
| 1,2,3,4,6,7,8-HPCDF | 5 | 100 | 2.64E-05 | - | 6.70E-05 | 5.18E-05 | 4.73E-05 | 6.88E-06 |
| 1,2,3,4,7,8,9-HPCDF | 5 | 20 | ND | - | 2.50E-06 | 2.45E-06 | 2.29E-06 | 1.51E-07 |
| 1,2,3,4,7,8-HXCDF | 5 | 60 | ND | - | 1.54E-04 | 7.60E-05 | 6.87E-05 | 2.98E-05 |
| 1,2,3,7,8-PECDF | 5 | 100 | 9.63E-05 | - | 1.97E-04 | 1.44E-04 | 1.40E-04 | 1.77E-05 |
| 2,3,4,7,8-PECDF | 5 | 100 | 6.90E-06 | - | 2.80E-05 | 1.34E-05 | 1.54E-05 | 3.57E-06 |
| 2,3,7,8-TCDF | 5 | 100 | 1.03E-05 | - | 5.44E-05 | 1.71E-05 | 2.38E-05 | 7.86E-06 |
| OCDD | 5 | 20 | ND | - | 2.53E-05 | 4.95E-06 | 8.98E-06 | 4.08E-06 |
| WHO TEQ (Human/Mammal) | 5 | -- | 1.41E-05 | - | 4.99E-05 | 2.54E-05 | 2.89E-05 | 6.16E-06 |
| | **Largemouth Bass Whole Fish Composite** | | | | | | | |
| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
| 1,2,3,4,6,7,8-HPCDD | 5 | 40 | ND | - | 3.20E-06 | 2.33E-06 | 2.49E-06 | 2.71E-07 |
| 1,2,3,4,6,7,8-HPCDF | 5 | 100 | 4.20E-06 | - | 2.76E-05 | 1.54E-05 | 1.71E-05 | 4.21E-06 |
| 1,2,3,4,7,8,9-HPCDF | 5 | 20 | ND | - | 3.05E-06 | 2.33E-06 | 2.27E-06 | 2.60E-07 |
| 1,2,3,4,7,8-HXCDF | 5 | 60 | ND | - | 4.12E-05 | 4.30E-06 | 1.39E-05 | 7.57E-06 |
| 1,2,3,6,7,8-HXCDF | 5 | 20 | ND | - | 3.05E-06 | 2.33E-06 | 2.25E-06 | 2.75E-07 |
| 1,2,3,7,8,9-HXCDD | 5 | 20 | ND | - | 3.05E-06 | 2.33E-06 | 2.29E-06 | 2.45E-07 |
| 1,2,3,7,8,9-HXCDF | 5 | 20 | ND | - | 3.05E-06 | 2.33E-06 | 2.11E-06 | 3.93E-07 |
| 1,2,3,7,8-PECDD | 5 | 40 | ND | - | 2.50E-06 | 1.97E-06 | 1.70E-06 | 4.12E-07 |
| 1,2,3,7,8-PECDF | 5 | 100 | 5.10E-06 | - | 9.65E-05 | 4.38E-05 | 4.96E-05 | 1.49E-05 |
| 2,3,4,6,7,8-HXCDF | 5 | 40 | ND | - | 3.05E-06 | 2.20E-06 | 2.29E-06 | 2.05E-07 |
| 2,3,4,7,8-PECDF | 5 | 100 | 5.30E-06 | - | 1.22E-05 | 8.00E-06 | 8.14E-06 | 1.14E-06 |
| 2,3,7,8-TCDD | 5 | 20 | ND | - | 6.00E-07 | 4.65E-07 | 4.72E-07 | 3.78E-08 |
| 2,3,7,8-TCDF | 5 | 100 | 5.10E-06 | - | 1.69E-05 | 9.60E-06 | 1.03E-05 | 2.10E-06 |
| OCDD | 5 | 20 | ND | - | 6.15E-06 | 4.65E-06 | 4.76E-06 | 3.94E-07 |
| WHO TEQ (Human/Mammal) | 5 | -- | 6.87E-06 | - | 1.72E-05 | 1.44E-05 | 1.27E-05 | 1.82E-06 |

**Sample Year: 1999**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Largemouth Bass Offal** | | | | | | | |
| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
| 1,2,3,4,6,7,8-HPCDF | 6 | 100 | 3.45E-05 | - | 1.17E-04 | 4.23E-05 | 5.30E-05 | 1.30E-05 |
| 1,2,3,4,7,8-HXCDF | 6 | 17 | ND | - | 3.11E-05 | 1.90E-06 | 6.77E-06 | 4.87E-06 |
| 1,2,3,7,8-PECDF | 6 | 100 | 1.64E-04 | - | 1.95E-03 | 2.11E-04 | 5.03E-04 | 2.90E-04 |
| 2,3,4,6,7,8-HXCDF | 6 | 17 | ND | - | 3.20E-06 | 1.90E-06 | 2.13E-06 | 2.29E-07 |
| 2,3,4,7,8-PECDF | 6 | 100 | 8.20E-06 | - | 8.50E-05 | 1.17E-05 | 2.41E-05 | 1.23E-05 |
| 2,3,7,8-TCDD | 6 | 17 | ND | - | 2.70E-06 | 4.00E-07 | 7.75E-07 | 3.85E-07 |
| 2,3,7,8-TCDF | 6 | 83 | ND | - | 5.40E-05 | 9.05E-06 | 1.52E-05 | 8.03E-06 |
| OCDD | 6 | 50 | ND | - | 3.80E-06 | 1.45E-06 | 1.92E-06 | 5.95E-07 |
| OCDF | 6 | 17 | ND | - | 4.55E-06 | 3.53E-06 | 3.17E-06 | 6.18E-07 |
| WHO TEQ (Human/Mammal) | 6 | -- | 1.88E-05 | - | 1.52E-04 | 2.27E-05 | 4.37E-05 | 2.17E-05 |
| | **Largemouth Bass Ovary** | | | | | | | |
| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
| 1,2,3,4,6,7,8-HPCDD | 6 | 17 | ND | - | 6.45E-06 | 2.80E-06 | 3.44E-06 | 7.72E-07 |
| 1,2,3,4,6,7,8-HPCDF | 6 | 100 | 6.70E-06 | - | 1.40E-04 | 2.05E-05 | 4.73E-05 | 2.24E-05 |
| 1,2,3,4,7,8-HXCDF | 6 | 67 | ND | - | 1.47E-04 | 1.24E-05 | 3.71E-05 | 2.27E-05 |
| 1,2,3,6,7,8-HXCDF | 6 | 17 | ND | - | 6.45E-06 | 2.40E-06 | 3.43E-06 | 7.41E-07 |
| 1,2,3,7,8-PECDF | 6 | 100 | 1.32E-05 | - | 1.56E-03 | 2.03E-05 | 4.96E-04 | 3.04E-04 |
| 2,3,4,7,8-PECDF | 6 | 100 | 2.58E-05 | - | 7.22E-05 | 3.94E-05 | 4.29E-05 | 6.37E-06 |
| 2,3,7,8-TCDD | 6 | 67 | ND | - | 5.00E-06 | 3.05E-06 | 2.83E-06 | 6.94E-07 |
| 2,3,7,8-TCDF | 6 | 100 | 5.52E-05 | - | 7.84E-05 | 6.33E-05 | 6.43E-05 | 3.30E-06 |
| OCDD | 6 | 17 | ND | - | 1.29E-05 | 5.58E-06 | 6.41E-06 | 1.82E-06 |
| OCDF | 6 | 17 | ND | - | 1.29E-05 | 4.75E-06 | 6.18E-06 | 1.80E-06 |
| WHO TEQ (Human/Mammal) | 6 | -- | 2.87E-05 | - | 1.31E-04 | 3.94E-05 | 6.56E-05 | 1.95E-05 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1990**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Largemouth Bass Skin-on, Scales-off Fillet** | | | | | | | |
| WHO TEQ (Human/Mammal) | 1 | -- | -- | - | -- | -- | 2.11E-05 | -- |

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Largemouth Bass Skin-off Fillet** | | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 10 | 60 | ND | - | 1.28E-05 | 2.33E-06 | 4.56E-06 | 1.42E-06 |
| 1,2,3,7,8-PECDF | 10 | 80 | ND | - | 6.19E-05 | 1.82E-05 | 2.05E-05 | 5.65E-06 |
| 2,3,4,6,7,8-HXCDF | 10 | 10 | ND | - | 4.85E-06 | 2.40E-06 | 2.25E-06 | 3.52E-07 |
| 2,3,4,7,8-PECDF | 10 | 70 | ND | - | 9.80E-06 | 2.99E-06 | 3.35E-06 | 8.89E-07 |
| 2,3,7,8-TCDF | 10 | 70 | ND | - | 3.37E-05 | 6.60E-06 | 9.32E-06 | 3.35E-06 |
| OCDD | 10 | 10 | ND | - | 2.17E-05 | 4.75E-06 | 6.02E-06 | 1.76E-06 |
| OCDF | 10 | 20 | ND | - | 1.53E-05 | 4.55E-06 | 5.03E-06 | 1.20E-06 |
| WHO TEQ (Human/Mammal) | 10 | -- | 4.46E-06 | - | 1.89E-05 | 6.98E-06 | 8.30E-06 | 1.30E-06 |
| | **Largemouth Bass Offal** | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 10 | 50 | ND | - | 2.50E-06 | 1.25E-06 | 1.24E-06 | 2.25E-07 |
| 1,2,3,4,6,7,8-HPCDF | 10 | 70 | ND | - | 2.85E-05 | 1.28E-05 | 1.29E-05 | 2.97E-06 |
| 1,2,3,4,7,8,9-HPCDF | 10 | 40 | ND | - | 2.50E-06 | 1.60E-06 | 1.47E-06 | 1.80E-07 |
| 1,2,3,4,7,8-HXCDF | 10 | 30 | ND | - | 1.71E-04 | 2.18E-06 | 2.78E-05 | 1.80E-05 |
| 1,2,3,6,7,8-HXCDF | 10 | 20 | ND | - | 2.30E-06 | 1.68E-06 | 1.72E-06 | 9.86E-08 |
| 1,2,3,7,8,9-HXCDF | 10 | 20 | ND | - | 2.50E-06 | 1.68E-06 | 1.56E-06 | 2.46E-07 |
| 1,2,3,7,8-PECDD | 10 | 10 | ND | - | 3.70E-06 | 1.88E-06 | 2.10E-06 | 2.02E-07 |
| 1,2,3,7,8-PECDF | 10 | 100 | 1.39E-05 | - | 6.07E-04 | 2.15E-04 | 2.60E-04 | 5.90E-05 |
| 2,3,4,6,7,8-HXCDF | 10 | 50 | ND | - | 4.60E-06 | 1.75E-06 | 2.32E-06 | 3.58E-07 |
| 2,3,4,7,8-PECDF | 10 | 100 | 1.61E-05 | - | 5.42E-05 | 3.83E-05 | 3.85E-05 | 3.73E-06 |
| 2,3,7,8-TCDD | 10 | 70 | ND | - | 4.90E-06 | 2.55E-06 | 2.40E-06 | 5.09E-07 |
| 2,3,7,8-TCDF | 10 | 100 | 2.17E-05 | - | 8.75E-05 | 2.65E-05 | 3.49E-05 | 6.29E-06 |
| OCDD | 10 | 50 | ND | - | 5.00E-06 | 2.35E-06 | 2.47E-06 | 4.59E-07 |
| OCDF | 10 | 40 | ND | - | 5.00E-06 | 3.23E-06 | 2.50E-06 | 6.27E-07 |
| WHO TEQ (Human/Mammal) | 10 | -- | 2.05E-05 | - | 8.53E-05 | 3.89E-05 | 4.43E-05 | 6.34E-06 |
| | **Largemouth Bass Whole Body Reconstructed** | | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 10 | 60 | ND | - | 2.04E-05 | 9.28E-06 | 1.08E-05 | 1.72E-06 |
| 1,2,3,7,8-PECDF | 10 | 80 | ND | - | 4.09E-04 | 1.55E-04 | 1.85E-04 | 4.07E-05 |
| 2,3,4,6,7,8-HXCDF | 10 | 10 | ND | - | 6.25E-06 | 3.51E-06 | 3.55E-06 | 4.18E-07 |
| 2,3,4,7,8-PECDF | 10 | 70 | ND | - | 3.94E-05 | 2.83E-05 | 2.80E-05 | 2.65E-06 |
| 2,3,7,8-TCDF | 10 | 70 | ND | - | 6.28E-05 | 2.03E-05 | 2.71E-05 | 4.69E-06 |
| OCDD | 10 | 10 | ND | - | 1.38E-05 | 5.38E-06 | 6.05E-06 | 1.01E-06 |
| OCDF | 10 | 20 | ND | - | 1.17E-05 | 6.38E-06 | 5.89E-06 | 9.64E-07 |
| WHO TEQ (Human/Mammal) | 10 | -- | 1.63E-05 | - | 5.87E-05 | 2.85E-05 | 3.32E-05 | 4.36E-06 |
| | **Largemouth Bass Whole Fish** | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 5 | 20 | ND | - | 4.70E-06 | 1.80E-06 | 2.23E-06 | 6.70E-07 |
| 1,2,3,4,6,7,8-HPCDF | 5 | 60 | ND | - | 6.60E-06 | 5.10E-06 | 4.88E-06 | 8.45E-07 |
| 1,2,3,4,7,8,9-HPCDF | 5 | 20 | ND | - | 4.70E-06 | 1.80E-06 | 2.23E-06 | 6.70E-07 |
| 1,2,3,4,7,8-HXCDF | 5 | 40 | ND | - | 4.70E-06 | 1.65E-06 | 2.13E-06 | 6.61E-07 |
| 1,2,3,7,8,9-HXCDF | 5 | 20 | ND | - | 4.70E-06 | 1.80E-06 | 2.17E-06 | 7.06E-07 |
| 1,2,3,7,8-PECDF | 5 | 80 | ND | - | 8.49E-05 | 1.65E-05 | 3.94E-05 | 1.82E-05 |
| 2,3,4,6,7,8-HXCDF | 5 | 40 | ND | - | 4.70E-06 | 1.80E-06 | 2.43E-06 | 6.13E-07 |
| 2,3,4,7,8-PECDF | 5 | 60 | ND | - | 2.31E-05 | 1.74E-05 | 1.40E-05 | 3.73E-06 |
| 2,3,7,8-TCDD | 5 | 40 | ND | - | 1.90E-06 | 6.00E-07 | 8.30E-07 | 2.89E-07 |
| 2,3,7,8-TCDF | 5 | 40 | ND | - | 3.32E-05 | 1.36E-05 | 1.58E-05 | 4.70E-06 |
| OCDD | 5 | 40 | ND | - | 9.45E-06 | 3.60E-06 | 4.43E-06 | 1.47E-06 |
| OCDF | 5 | 20 | ND | - | 9.45E-06 | 3.60E-06 | 4.63E-06 | 1.27E-06 |
| WHO TEQ (Human/Mammal) | 5 | -- | 5.16E-06 | - | 2.19E-05 | 2.01E-05 | 1.56E-05 | 3.40E-06 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Largemouth Bass Whole Fish Composite | | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 5 | 60 | ND | - | 1.32E-05 | 6.70E-06 | 7.04E-06 | 1.98E-06 |
| 1,2,3,6,7,8-HXCDF | 5 | 20 | ND | - | 4.60E-06 | 2.05E-06 | 2.59E-06 | 7.07E-07 |
| 1,2,3,7,8-PECDF | 5 | 60 | ND | - | 1.62E-04 | 2.95E-05 | 4.75E-05 | 2.93E-05 |
| 2,3,4,6,7,8-HXCDF | 5 | 20 | ND | - | 4.60E-06 | 2.05E-06 | 2.73E-06 | 6.28E-07 |
| 2,3,4,7,8-PECDF | 5 | 40 | ND | - | 1.61E-05 | 1.13E-05 | 1.20E-05 | 1.62E-06 |
| 2,3,7,8-TCDF | 5 | 40 | ND | - | 3.40E-05 | 2.54E-05 | 2.27E-05 | 4.03E-06 |
| OCDD | 5 | 20 | ND | - | 9.15E-06 | 3.30E-06 | 4.90E-06 | 1.51E-06 |
| WHO TEQ (Human/Mammal) | 5 | -- | 1.02E-05 | - | 2.52E-05 | 1.45E-05 | 1.60E-05 | 2.82E-06 |

**Sample Year: 1999**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Largemouth Bass Offal | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 6 | 17 | ND | - | 1.65E-06 | 1.48E-06 | 1.38E-06 | 1.45E-07 |
| 1,2,3,4,6,7,8-HPCDF | 6 | 100 | 3.50E-06 | - | 4.31E-05 | 5.00E-06 | 1.55E-05 | 7.19E-06 |
| 1,2,3,4,7,8,9-HPCDF | 6 | 33 | ND | - | 1.65E-06 | 1.48E-06 | 1.26E-06 | 1.99E-07 |
| 1,2,3,4,7,8-HXCDF | 6 | 50 | ND | - | 9.70E-06 | 1.68E-06 | 3.18E-06 | 1.32E-06 |
| 1,2,3,6,7,8-HXCDF | 6 | 50 | ND | - | 1.65E-06 | 1.40E-06 | 1.15E-06 | 2.43E-07 |
| 1,2,3,7,8-PECDD | 6 | 17 | ND | - | 1.65E-06 | 1.48E-06 | 1.49E-06 | 5.69E-08 |
| 1,2,3,7,8-PECDF | 6 | 100 | 8.30E-06 | - | 3.19E-04 | 9.75E-06 | 9.25E-05 | 5.49E-05 |
| 2,3,4,6,7,8-HXCDF | 6 | 33 | ND | - | 2.30E-06 | 1.58E-06 | 1.50E-06 | 2.26E-07 |
| 2,3,4,7,8-PECDF | 6 | 100 | 1.19E-05 | - | 2.61E-05 | 1.85E-05 | 1.90E-05 | 1.99E-06 |
| 2,3,7,8-TCDD | 6 | 50 | ND | - | 1.50E-06 | 6.75E-07 | 7.42E-07 | 2.04E-07 |
| 2,3,7,8-TCDF | 6 | 83 | ND | - | 1.73E-05 | 1.02E-05 | 9.05E-06 | 2.42E-06 |
| OCDD | 6 | 50 | ND | - | 3.30E-06 | 2.05E-06 | 2.03E-06 | 5.30E-07 |
| WHO TEQ (Human/Mammal) | 6 | -- | 1.38E-05 | - | 2.60E-05 | 1.78E-05 | 1.86E-05 | 1.90E-06 |
| | Largemouth Bass Ovary | | | | | | | |
| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
| 1,2,3,4,6,7,8-HPCDD | 6 | 17 | ND | - | 6.45E-06 | 2.80E-06 | 3.44E-06 | 7.72E-07 |
| 1,2,3,4,6,7,8-HPCDF | 6 | 100 | 6.70E-06 | - | 1.40E-04 | 2.05E-05 | 4.73E-05 | 2.24E-05 |
| 1,2,3,4,7,8-HXCDF | 6 | 67 | ND | - | 1.47E-04 | 1.24E-05 | 3.71E-05 | 2.27E-05 |
| 1,2,3,6,7,8-HXCDF | 6 | 17 | ND | - | 6.45E-06 | 2.40E-06 | 3.43E-06 | 7.41E-07 |
| 1,2,3,7,8-PECDF | 6 | 100 | 1.32E-05 | - | 1.56E-03 | 2.03E-05 | 4.96E-04 | 3.04E-04 |
| 2,3,4,7,8-PECDF | 6 | 100 | 2.58E-05 | - | 7.22E-05 | 3.94E-05 | 4.29E-05 | 6.37E-06 |
| 2,3,7,8-TCDD | 6 | 67 | ND | - | 5.00E-06 | 3.05E-06 | 2.83E-06 | 6.94E-07 |
| 2,3,7,8-TCDF | 6 | 100 | 5.52E-05 | - | 7.84E-05 | 6.33E-05 | 6.43E-05 | 3.30E-06 |
| OCDD | 6 | 17 | ND | - | 1.29E-05 | 5.58E-06 | 6.41E-06 | 1.82E-06 |
| OCDF | 6 | 17 | ND | - | 1.29E-05 | 4.75E-06 | 6.18E-06 | 1.80E-06 |
| WHO TEQ (Human/Mammal) | 6 | -- | 2.87E-05 | - | 1.31E-04 | 3.94E-05 | 6.56E-05 | 1.95E-05 |

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Largemouth Bass Skin-off Fillet | | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 13 | 69 | ND | - | 2.13E-05 | 2.33E-06 | 6.13E-06 | 1.89E-06 |
| 1,2,3,4,7,8,9-HPCDF | 13 | 31 | ND | - | 2.45E-06 | 1.75E-06 | 1.74E-06 | 1.39E-07 |
| 1,2,3,4,7,8-HXCDF | 13 | 23 | ND | - | 2.50E-06 | 1.80E-06 | 1.90E-06 | 9.64E-08 |
| 1,2,3,6,7,8-HXCDF | 13 | 23 | ND | - | 2.90E-06 | 1.75E-06 | 1.78E-06 | 1.97E-07 |
| 1,2,3,7,8-PECDF | 13 | 100 | 3.30E-06 | - | 1.79E-04 | 2.75E-05 | 4.88E-05 | 1.61E-05 |
| 2,3,4,6,7,8-HXCDF | 13 | 23 | ND | - | 3.70E-06 | 1.85E-06 | 1.99E-06 | 1.91E-07 |
| 2,3,4,7,8-PECDF | 13 | 92 | ND | - | 3.22E-05 | 3.50E-06 | 6.34E-06 | 2.26E-06 |
| 2,3,7,8-TCDD | 13 | 8 | ND | - | 2.30E-06 | 3.50E-07 | 5.37E-07 | 1.48E-07 |
| 2,3,7,8-TCDF | 13 | 92 | ND | - | 2.26E-05 | 5.70E-06 | 7.32E-06 | 1.50E-06 |
| OCDD | 13 | 23 | ND | - | 5.00E-06 | 3.55E-06 | 3.75E-06 | 2.29E-07 |
| OCDF | 13 | 23 | ND | - | 1.03E-05 | 3.55E-06 | 4.14E-06 | 5.56E-07 |
| WHO TEQ (Human/Mammal) | 13 | -- | 4.73E-06 | - | 3.33E-05 | 7.36E-06 | 1.03E-05 | 2.08E-06 |

# Table C-31
# PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Largemouth Bass Offal** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 13 | 15 | ND | - | 2.50E-06 | 1.95E-06 | 2.00E-06 | 9.64E-08 |
| 1,2,3,4,6,7,8-HPCDF | 13 | 77 | ND | - | 8.29E-04 | 6.80E-06 | 7.64E-05 | 6.29E-05 |
| 1,2,3,4,7,8-HXCDF | 13 | 31 | ND | - | 2.22E-05 | 1.85E-06 | 5.48E-06 | 1.96E-06 |
| 1,2,3,6,7,8-HXCDF | 13 | 8 | ND | - | 2.50E-06 | 1.85E-06 | 1.96E-06 | 9.20E-08 |
| 1,2,3,7,8-PECDF | 13 | 100 | 9.70E-06 | - | 1.74E-03 | 1.05E-04 | 3.81E-04 | 1.57E-04 |
| 2,3,4,6,7,8-HXCDF | 13 | 31 | ND | - | 8.30E-06 | 2.00E-06 | 2.73E-06 | 5.71E-07 |
| 2,3,4,7,8-PECDF | 13 | 77 | ND | - | 6.23E-05 | 2.53E-05 | 2.84E-05 | 5.61E-06 |
| 2,3,7,8-TCDD | 13 | 54 | ND | - | 4.00E-06 | 4.95E-07 | 1.55E-06 | 4.39E-07 |
| 2,3,7,8-TCDF | 13 | 77 | ND | - | 5.32E-05 | 2.13E-05 | 2.57E-05 | 4.53E-06 |
| OCDD | 13 | 15 | ND | - | 5.00E-06 | 3.35E-06 | 3.12E-06 | 4.57E-07 |
| OCDF | 13 | 15 | ND | - | 5.00E-06 | 3.55E-06 | 3.66E-06 | 2.62E-07 |
| WHO TEQ (Human/Mammal) | 13 | -- | 5.11E-06 | - | 1.14E-04 | 3.55E-05 | 4.19E-05 | 9.60E-06 |
| **Largemouth Bass Whole Body Reconstructed** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 13 | 69 | ND | - | 6.00E-04 | 5.71E-06 | 5.68E-05 | 4.53E-05 |
| 1,2,3,4,7,8,9-HPCDF | 13 | 31 | ND | - | 4.82E-06 | 3.63E-06 | 3.65E-06 | 1.31E-07 |
| 1,2,3,4,7,8-HXCDF | 13 | 23 | ND | - | 1.57E-05 | 3.63E-06 | 5.66E-06 | 1.20E-06 |
| 1,2,3,6,7,8-HXCDF | 13 | 23 | ND | - | 4.96E-06 | 3.64E-06 | 3.61E-06 | 2.50E-07 |
| 1,2,3,7,8-PECDF | 13 | 100 | 1.34E-05 | - | 1.15E-03 | 7.77E-05 | 2.77E-04 | 1.07E-04 |
| 2,3,4,6,7,8-HXCDF | 13 | 23 | ND | - | 6.99E-06 | 3.75E-06 | 3.93E-06 | 4.08E-07 |
| 2,3,4,7,8-PECDF | 13 | 92 | ND | - | 4.53E-05 | 2.49E-05 | 2.44E-05 | 3.53E-06 |
| 2,3,7,8-TCDD | 13 | 8 | ND | - | 3.16E-06 | 9.59E-07 | 1.49E-06 | 2.73E-07 |
| 2,3,7,8-TCDF | 13 | 92 | ND | - | 3.93E-05 | 2.33E-05 | 2.28E-05 | 2.96E-06 |
| OCDD | 13 | 23 | ND | - | 9.93E-06 | 6.50E-06 | 6.20E-06 | 7.08E-07 |
| OCDF | 13 | 23 | ND | - | 1.00E-05 | 6.67E-06 | 7.01E-06 | 5.25E-07 |
| WHO TEQ (Human/Mammal) | 13 | -- | 7.70E-06 | - | 8.49E-05 | 2.86E-05 | 3.22E-05 | 6.54E-06 |
| **Largemouth Bass Whole Fish** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 10 | 20 | ND | - | 2.50E-06 | 1.75E-06 | 1.85E-06 | 2.03E-07 |
| 1,2,3,4,6,7,8-HPCDF | 10 | 60 | ND | - | 5.29E-05 | 2.48E-06 | 9.57E-06 | 5.13E-06 |
| 1,2,3,7,8-PECDF | 10 | 90 | ND | - | 3.30E-04 | 1.94E-05 | 7.68E-05 | 3.72E-05 |
| 2,3,4,6,7,8-HXCDF | 10 | 10 | ND | - | 2.50E-06 | 1.73E-06 | 1.79E-06 | 2.05E-07 |
| 2,3,4,7,8-PECDF | 10 | 90 | ND | - | 3.68E-05 | 9.50E-06 | 1.25E-05 | 3.40E-06 |
| 2,3,7,8-TCDD | 10 | 20 | ND | - | 1.80E-06 | 4.48E-07 | 5.74E-07 | 1.41E-07 |
| 2,3,7,8-TCDF | 10 | 70 | ND | - | 3.07E-05 | 1.58E-05 | 1.82E-05 | 2.66E-06 |
| OCDD | 10 | 10 | ND | - | 4.99E-06 | 3.28E-06 | 3.48E-06 | 4.27E-07 |
| WHO TEQ (Human/Mammal) | 10 | -- | 6.62E-06 | - | 4.30E-05 | 1.15E-05 | 1.59E-05 | 3.64E-06 |
| **Largemouth Bass Whole Fish Composite** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 7 | 14 | ND | - | 4.85E-06 | 3.35E-06 | 3.19E-06 | 6.08E-07 |
| 1,2,3,4,6,7,8-HPCDF | 7 | 71 | ND | - | 1.73E-05 | 7.50E-06 | 9.77E-06 | 2.06E-06 |
| 1,2,3,6,7,8-HXCDF | 7 | 29 | ND | - | 4.85E-06 | 2.44E-06 | 2.72E-06 | 6.31E-07 |
| 1,2,3,7,8-PECDF | 7 | 100 | 2.90E-06 | - | 2.55E-04 | 9.42E-05 | 1.05E-04 | 3.24E-05 |
| 2,3,4,6,7,8-HXCDF | 7 | 29 | ND | - | 6.90E-06 | 3.35E-06 | 3.58E-06 | 7.83E-07 |
| 2,3,4,7,8-PECDF | 7 | 86 | ND | - | 2.07E-05 | 1.86E-05 | 1.61E-05 | 1.99E-06 |
| 2,3,7,8-TCDD | 7 | 29 | ND | - | 9.50E-07 | 7.00E-07 | 7.49E-07 | 7.51E-08 |
| 2,3,7,8-TCDF | 7 | 86 | ND | - | 3.15E-05 | 2.00E-05 | 2.09E-05 | 3.43E-06 |
| OCDD | 7 | 14 | ND | - | 9.75E-06 | 4.88E-06 | 5.09E-06 | 1.45E-06 |
| WHO TEQ (Human/Mammal) | 7 | -- | 1.38E-05 | - | 2.82E-05 | 2.27E-05 | 2.20E-05 | 1.86E-06 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Pumpkinseed Skin-off Fillet** | | | | | | | | |
| 1,2,3,7,8-PECDF | 13 | 15 | ND | - | 1.18E-05 | 8.60E-06 | 7.61E-06 | 7.80E-07 |
| 2,3,4,7,8-PECDF | 13 | 15 | ND | - | 5.30E-06 | 4.05E-06 | 3.87E-06 | 2.46E-07 |
| 2,3,7,8-TCDF | 13 | 38 | ND | - | 2.81E-05 | 1.43E-05 | 1.42E-05 | 1.78E-06 |
| WHO TEQ (Human/Mammal) | 13 | -- | 7.03E-06 | - | 1.43E-05 | 1.16E-05 | 1.09E-05 | 7.14E-07 |
| **Pumpkinseed Offal** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 13 | 31 | ND | - | 4.75E-06 | 2.40E-06 | 2.35E-06 | 3.73E-07 |
| 1,2,3,4,6,7,8-HPCDF | 13 | 69 | ND | - | 5.73E-05 | 1.55E-05 | 2.23E-05 | 5.78E-06 |
| 1,2,3,4,7,8,9-HPCDF | 13 | 8 | ND | - | 4.95E-06 | 2.50E-06 | 2.86E-06 | 3.63E-07 |
| 1,2,3,4,7,8-HXCDF | 13 | 38 | ND | - | 1.24E-04 | 4.75E-06 | 2.71E-05 | 1.16E-05 |
| 1,2,3,6,7,8-HXCDF | 13 | 8 | ND | - | 4.75E-06 | 2.50E-06 | 2.79E-06 | 2.60E-07 |
| 1,2,3,7,8-PECDF | 13 | 100 | 5.20E-06 | - | 2.20E-04 | 5.08E-05 | 6.86E-05 | 1.75E-05 |
| 2,3,4,6,7,8-HXCDF | 13 | 23 | ND | - | 4.75E-06 | 2.41E-06 | 2.56E-06 | 3.21E-07 |
| 2,3,4,7,8-PECDF | 13 | 100 | 4.30E-06 | - | 2.35E-05 | 1.08E-05 | 1.24E-05 | 1.82E-06 |
| 2,3,7,8-TCDD | 13 | 8 | ND | - | 1.90E-06 | 5.00E-07 | 6.77E-07 | 1.13E-07 |
| 2,3,7,8-TCDF | 13 | 100 | 1.61E-05 | - | 1.03E-04 | 6.36E-05 | 5.76E-05 | 7.90E-06 |
| OCDD | 13 | 15 | ND | - | 9.50E-06 | 4.90E-06 | 5.32E-06 | 5.38E-07 |
| WHO TEQ (Human/Mammal) | 13 | -- | 1.26E-05 | - | 4.53E-05 | 2.26E-05 | 2.38E-05 | 2.66E-06 |
| **Pumpkinseed Whole Body Reconstructed** | | | | | | | | |
| 1,2,3,7,8-PECDF | 13 | 15 | ND | - | 1.45E-04 | 3.70E-05 | 4.97E-05 | 1.14E-05 |
| 2,3,4,7,8-PECDF | 13 | 15 | ND | - | 1.70E-05 | 9.93E-06 | 1.05E-05 | 1.17E-06 |
| 2,3,7,8-TCDF | 13 | 38 | ND | - | 7.20E-05 | 4.99E-05 | 4.45E-05 | 5.21E-06 |
| WHO TEQ (Human/Mammal) | 13 | -- | 1.24E-05 | - | 3.19E-05 | 1.86E-05 | 1.92E-05 | 1.62E-06 |
| **Pumpkinseed Whole Fish Composite** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 5 | 40 | ND | - | 2.48E-06 | 2.33E-06 | 1.76E-06 | 4.03E-07 |
| 1,2,3,4,6,7,8-HPCDF | 5 | 100 | 6.80E-06 | - | 1.14E-05 | 9.80E-06 | 9.20E-06 | 9.76E-07 |
| 1,2,3,4,7,8-HXCDF | 5 | 40 | ND | - | 1.46E-05 | 2.48E-06 | 7.06E-06 | 2.86E-06 |
| 1,2,3,7,8-PECDF | 5 | 100 | 2.24E-05 | - | 4.22E-05 | 3.43E-05 | 3.28E-05 | 3.83E-06 |
| 2,3,4,6,7,8-HXCDF | 5 | 40 | ND | - | 2.48E-06 | 2.33E-06 | 1.90E-06 | 3.10E-07 |
| 2,3,4,7,8-PECDF | 5 | 100 | 3.60E-06 | - | 9.20E-06 | 5.40E-06 | 6.24E-06 | 1.13E-06 |
| 2,3,7,8-TCDF | 5 | 100 | 3.37E-05 | - | 4.86E-05 | 4.02E-05 | 4.00E-05 | 2.81E-06 |
| OCDD | 5 | 20 | ND | - | 6.55E-06 | 4.80E-06 | 4.89E-06 | 4.87E-07 |
| WHO TEQ (Human/Mammal) | 5 | -- | 1.19E-05 | - | 1.77E-05 | 1.37E-05 | 1.42E-05 | 1.07E-06 |

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Pumpkinseed Skin-off Fillet** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 20 | ND | - | 4.97E-06 | 4.20E-06 | 3.24E-06 | 4.83E-07 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 47 | ND | - | 3.95E-05 | 4.91E-06 | 8.41E-06 | 2.58E-06 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 7 | ND | - | 4.97E-06 | 4.20E-06 | 3.56E-06 | 3.72E-07 |
| 1,2,3,4,7,8-HXCDD | 15 | 7 | ND | - | 4.97E-06 | 4.20E-06 | 3.51E-06 | 3.94E-07 |
| 1,2,3,6,7,8-HXCDF | 15 | 20 | ND | - | 4.97E-06 | 2.50E-06 | 3.12E-06 | 4.75E-07 |
| 1,2,3,7,8,9-HXCDF | 15 | 13 | ND | - | 4.97E-06 | 2.50E-06 | 3.26E-06 | 4.37E-07 |
| 1,2,3,7,8-PECDF | 15 | 100 | 2.10E-06 | - | 2.15E-04 | 9.30E-06 | 3.18E-05 | 1.44E-05 |
| 2,3,4,6,7,8-HXCDF | 15 | 20 | ND | - | 4.97E-06 | 4.30E-06 | 3.54E-06 | 3.73E-07 |
| 2,3,4,7,8-PECDF | 15 | 80 | ND | - | 1.69E-05 | 4.97E-06 | 6.33E-06 | 1.14E-06 |
| 2,3,7,8-TCDD | 15 | 13 | ND | - | 2.50E-06 | 9.00E-07 | 8.37E-07 | 1.36E-07 |
| 2,3,7,8-TCDF | 15 | 100 | 1.08E-05 | - | 1.70E-04 | 1.69E-05 | 3.18E-05 | 1.04E-05 |
| OCDD | 15 | 27 | ND | - | 9.94E-06 | 5.00E-06 | 5.98E-06 | 1.03E-06 |
| OCDF | 15 | 20 | ND | - | 9.94E-06 | 5.00E-06 | 6.29E-06 | 9.47E-07 |
| WHO TEQ (Human/Mammal) | 15 | -- | 6.83E-06 | - | 4.28E-05 | 1.34E-05 | 1.50E-05 | 2.19E-06 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Pumpkinseed Offal** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 27 | ND | - | 4.75E-06 | 2.45E-06 | 2.11E-06 | 2.87E-07 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 80 | ND | - | 3.20E-05 | 2.80E-06 | 7.06E-06 | 2.55E-06 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 7 | ND | - | 4.75E-06 | 2.46E-06 | 2.45E-06 | 1.87E-07 |
| 1,2,3,4,7,8-HXCDF | 15 | 20 | ND | - | 5.27E-05 | 2.48E-06 | 7.16E-06 | 3.54E-06 |
| 1,2,3,6,7,8-HXCDD | 15 | 7 | ND | - | 4.75E-06 | 2.46E-06 | 2.38E-06 | 2.22E-07 |
| 1,2,3,7,8-PECDF | 15 | 100 | 3.80E-06 | - | 4.50E-04 | 5.80E-05 | 1.10E-04 | 3.67E-05 |
| 2,3,4,6,7,8-HXCDF | 15 | 20 | ND | - | 7.60E-06 | 2.47E-06 | 2.71E-06 | 4.08E-07 |
| 2,3,4,7,8-PECDF | 15 | 93 | ND | - | 2.87E-05 | 8.90E-06 | 1.17E-05 | 1.95E-06 |
| 2,3,7,8-TCDD | 15 | 33 | ND | - | 5.50E-06 | 5.00E-07 | 1.20E-06 | 3.52E-07 |
| 2,3,7,8-TCDF | 15 | 100 | 3.11E-05 | - | 1.76E-04 | 7.14E-05 | 7.98E-05 | 1.13E-05 |
| OCDD | 15 | 60 | ND | - | 9.45E-06 | 3.80E-06 | 3.68E-06 | 5.50E-07 |
| OCDF | 15 | 20 | ND | - | 9.45E-06 | 4.91E-06 | 4.37E-06 | 5.53E-07 |
| WHO TEQ (Human/Mammal) | 15 | -- | 1.19E-05 | - | 6.20E-05 | 2.04E-05 | 2.53E-05 | 4.02E-06 |
| **Pumpkinseed Whole Body Reconstructed** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 20 | ND | - | 8.12E-06 | 5.90E-06 | 4.69E-06 | 6.06E-07 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 47 | ND | - | 2.35E-05 | 6.12E-06 | 8.54E-06 | 1.82E-06 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 7 | ND | - | 8.12E-06 | 6.06E-06 | 5.41E-06 | 3.83E-07 |
| 1,2,3,4,7,8-HXCDD | 15 | 7 | ND | - | 8.12E-06 | 6.06E-06 | 5.50E-06 | 3.43E-07 |
| 1,2,3,6,7,8-HXCDF | 15 | 20 | ND | - | 8.12E-06 | 5.90E-06 | 5.22E-06 | 4.09E-07 |
| 1,2,3,7,8,9-HXCDF | 15 | 13 | ND | - | 8.12E-06 | 5.90E-06 | 5.32E-06 | 3.83E-07 |
| 1,2,3,7,8-PECDF | 15 | 100 | 3.96E-06 | - | 3.41E-04 | 4.78E-05 | 8.63E-05 | 2.72E-05 |
| 2,3,4,6,7,8-HXCDF | 15 | 20 | ND | - | 8.12E-06 | 6.06E-06 | 5.23E-06 | 4.84E-07 |
| 2,3,4,7,8-PECDF | 15 | 80 | ND | - | 2.27E-05 | 8.72E-06 | 1.06E-05 | 1.38E-06 |
| 2,3,7,8-TCDD | 15 | 13 | ND | - | 4.17E-06 | 1.26E-06 | 1.51E-06 | 2.06E-07 |
| 2,3,7,8-TCDF | 15 | 100 | 3.18E-05 | - | 1.34E-04 | 6.09E-05 | 6.63E-05 | 7.95E-06 |
| OCDD | 15 | 27 | ND | - | 1.62E-05 | 7.37E-06 | 7.33E-06 | 1.11E-06 |
| OCDF | 15 | 20 | ND | - | 1.62E-05 | 1.18E-05 | 9.55E-06 | 1.20E-06 |
| WHO TEQ (Human/Mammal) | 15 | -- | 1.20E-05 | - | 4.87E-05 | 1.85E-05 | 2.23E-05 | 2.86E-06 |
| **Pumpkinseed Whole Fish Composite** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 5 | 20 | ND | - | 2.48E-06 | 1.65E-06 | 1.75E-06 | 1.96E-07 |
| 1,2,3,4,6,7,8-HPCDF | 5 | 100 | 6.10E-06 | - | 2.00E-05 | 1.49E-05 | 1.34E-05 | 3.05E-06 |
| 1,2,3,4,7,8,9-HPCDF | 5 | 20 | ND | - | 2.48E-06 | 1.65E-06 | 1.57E-06 | 3.33E-07 |
| 1,2,3,4,7,8-HXCDF | 5 | 60 | ND | - | 5.22E-05 | 2.75E-05 | 2.52E-05 | 1.04E-05 |
| 1,2,3,7,8-PECDF | 5 | 80 | ND | - | 7.65E-05 | 7.10E-05 | 6.22E-05 | 1.06E-05 |
| 2,3,4,6,7,8-HXCDF | 5 | 20 | ND | - | 2.48E-06 | 1.65E-06 | 1.57E-06 | 3.33E-07 |
| 2,3,4,7,8-PECDF | 5 | 80 | ND | - | 1.35E-05 | 1.19E-05 | 1.07E-05 | 1.28E-06 |
| 2,3,7,8-TCDD | 5 | 60 | ND | - | 2.10E-06 | 8.00E-07 | 1.08E-06 | 3.48E-07 |
| 2,3,7,8-TCDF | 5 | 60 | ND | - | 5.81E-05 | 5.47E-05 | 4.70E-05 | 6.49E-06 |
| OCDD | 5 | 60 | ND | - | 5.10E-06 | 2.60E-06 | 2.87E-06 | 6.43E-07 |
| WHO TEQ (Human/Mammal) | 5 | -- | 1.27E-05 | - | 2.47E-05 | 2.29E-05 | 1.99E-05 | 2.55E-06 |

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Pumpkinseed Skin-off Fillet** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 16 | 38 | ND | - | 2.18E-05 | 2.94E-06 | 4.64E-06 | 1.29E-06 |
| 1,2,3,4,7,8-HXCDF | 16 | 6 | ND | - | 7.00E-06 | 2.38E-06 | 2.91E-06 | 3.61E-07 |
| 1,2,3,7,8-PECDF | 16 | 94 | ND | - | 6.76E-05 | 1.54E-05 | 1.97E-05 | 4.69E-06 |
| 2,3,4,6,7,8-HXCDF | 16 | 6 | ND | - | 7.00E-06 | 2.38E-06 | 2.86E-06 | 3.81E-07 |
| 2,3,4,7,8-PECDF | 16 | 69 | ND | - | 8.30E-06 | 2.18E-06 | 2.71E-06 | 4.64E-07 |
| 2,3,7,8-TCDD | 16 | 6 | ND | - | 1.40E-06 | 4.75E-07 | 5.79E-07 | 7.20E-08 |
| 2,3,7,8-TCDF | 16 | 56 | ND | - | 3.14E-05 | 7.00E-06 | 8.68E-06 | 1.94E-06 |
| OCDD | 16 | 6 | ND | - | 1.41E-05 | 4.75E-06 | 5.71E-06 | 7.72E-07 |
| OCDF | 16 | 6 | ND | - | 1.41E-05 | 4.53E-06 | 5.51E-06 | 7.34E-07 |
| WHO TEQ (Human/Mammal) | 16 | -- | 5.21E-06 | - | 2.19E-05 | 8.00E-06 | 8.93E-06 | 1.04E-06 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Pumpkinseed Offal** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 16 | 12 | ND | - | 4.97E-06 | 2.00E-06 | 2.07E-06 | 2.53E-07 |
| 1,2,3,4,6,7,8-HPCDF | 16 | 88 | ND | - | 2.83E-04 | 1.20E-05 | 3.07E-05 | 1.71E-05 |
| 1,2,3,4,7,8,9-HPCDF | 16 | 12 | ND | - | 4.97E-06 | 2.10E-06 | 2.08E-06 | 2.55E-07 |
| 1,2,3,4,7,8-HXCDF | 16 | 6 | ND | - | 5.66E-04 | 2.15E-06 | 3.75E-05 | 3.53E-05 |
| 1,2,3,6,7,8-HXCDD | 16 | 6 | ND | - | 4.97E-06 | 2.10E-06 | 2.16E-06 | 2.31E-07 |
| 1,2,3,7,8,9-HXCDD | 16 | 6 | ND | - | 4.97E-06 | 2.10E-06 | 2.15E-06 | 2.38E-07 |
| 1,2,3,7,8,9-HXCDF | 16 | 6 | ND | - | 4.97E-06 | 2.10E-06 | 2.16E-06 | 2.34E-07 |
| 1,2,3,7,8-PECDD | 16 | 6 | ND | - | 4.97E-06 | 2.05E-06 | 2.12E-06 | 2.36E-07 |
| 1,2,3,7,8-PECDF | 16 | 94 | ND | - | 5.83E-04 | 1.67E-04 | 1.87E-04 | 4.27E-05 |
| 2,3,4,6,7,8-HXCDF | 16 | 12 | ND | - | 4.97E-06 | 2.15E-06 | 2.28E-06 | 2.32E-07 |
| 2,3,4,7,8-PECDF | 16 | 81 | ND | - | 1.81E-05 | 8.30E-06 | 9.34E-06 | 1.27E-06 |
| 2,3,7,8-TCDD | 16 | 31 | ND | - | 3.30E-06 | 5.00E-07 | 9.96E-07 | 2.31E-07 |
| 2,3,7,8-TCDF | 16 | 88 | ND | - | 1.33E-04 | 2.69E-05 | 4.69E-05 | 8.91E-06 |
| OCDD | 16 | 31 | ND | - | 9.94E-06 | 3.35E-06 | 3.60E-06 | 5.78E-07 |
| OCDF | 16 | 12 | ND | - | 9.94E-06 | 4.18E-06 | 4.14E-06 | 5.17E-07 |
| WHO TEQ (Human/Mammal) | 16 | -- | 1.03E-05 | - | 8.85E-05 | 2.32E-05 | 2.72E-05 | 4.59E-06 |
| **Pumpkinseed Whole Body Reconstructed** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 16 | 38 | ND | - | 1.92E-04 | 1.01E-05 | 2.34E-05 | 1.15E-05 |
| 1,2,3,4,7,8-HXCDF | 16 | 6 | ND | - | 3.79E-04 | 4.36E-06 | 2.82E-05 | 2.34E-05 |
| 1,2,3,7,8-PECDF | 16 | 94 | ND | - | 4.32E-04 | 1.28E-04 | 1.39E-04 | 3.13E-05 |
| 2,3,4,6,7,8-HXCDF | 16 | 6 | ND | - | 9.95E-06 | 4.15E-06 | 4.72E-06 | 4.90E-07 |
| 2,3,4,7,8-PECDF | 16 | 69 | ND | - | 1.80E-05 | 7.46E-06 | 8.48E-06 | 1.05E-06 |
| 2,3,7,8-TCDD | 16 | 6 | ND | - | 2.50E-06 | 1.08E-06 | 1.27E-06 | 1.40E-07 |
| 2,3,7,8-TCDF | 16 | 56 | ND | - | 1.02E-04 | 2.45E-05 | 3.94E-05 | 6.77E-06 |
| OCDD | 16 | 6 | ND | - | 1.99E-05 | 7.61E-06 | 7.94E-06 | 1.27E-06 |
| OCDF | 16 | 6 | ND | - | 1.99E-05 | 8.31E-06 | 8.96E-06 | 1.05E-06 |
| WHO TEQ (Human/Mammal) | 16 | -- | 9.33E-06 | - | 6.20E-05 | 2.00E-05 | 2.18E-05 | 3.02E-06 |
| **Pumpkinseed Whole Fish Composite** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 5 | 40 | ND | - | 2.10E-06 | 1.65E-06 | 1.41E-06 | 2.79E-07 |
| 1,2,3,4,6,7,8-HPCDF | 5 | 80 | ND | - | 8.00E-06 | 7.50E-06 | 5.81E-06 | 1.26E-06 |
| 1,2,3,7,8-PECDF | 5 | 100 | 8.70E-06 | - | 1.39E-04 | 1.20E-04 | 9.12E-05 | 2.45E-05 |
| 2,3,4,6,7,8-HXCDF | 5 | 40 | ND | - | 2.45E-06 | 1.80E-06 | 1.70E-06 | 3.06E-07 |
| 2,3,4,7,8-PECDF | 5 | 100 | 7.80E-06 | - | 1.15E-05 | 9.50E-06 | 9.66E-06 | 7.08E-07 |
| 2,3,7,8-TCDD | 5 | 20 | ND | - | 1.90E-06 | 4.00E-07 | 7.00E-07 | 3.01E-07 |
| 2,3,7,8-TCDF | 5 | 100 | 2.38E-05 | - | 3.36E-05 | 2.84E-05 | 2.88E-05 | 1.57E-06 |
| OCDD | 5 | 40 | ND | - | 4.85E-06 | 3.30E-06 | 3.14E-06 | 6.79E-07 |
| WHO TEQ (Human/Mammal) | 5 | -- | 9.92E-06 | - | 1.93E-05 | 1.88E-05 | 1.64E-05 | 1.80E-06 |
| **Yellow Perch Skin-off Fillet** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 31 | 6 | ND | - | 4.96E-06 | 2.35E-06 | 2.43E-06 | 1.38E-07 |
| 1,2,3,4,6,7,8-HPCDF | 31 | 55 | ND | - | 1.95E-04 | 2.50E-06 | 1.22E-05 | 6.24E-06 |
| 1,2,3,4,7,8,9-HPCDF | 31 | 3 | ND | - | 4.96E-06 | 2.35E-06 | 2.48E-06 | 1.20E-07 |
| 1,2,3,4,7,8-HXCDF | 31 | 13 | ND | - | 4.96E-06 | 2.30E-06 | 2.32E-06 | 1.58E-07 |
| 1,2,3,6,7,8-HXCDF | 31 | 16 | ND | - | 4.96E-06 | 2.28E-06 | 2.24E-06 | 1.74E-07 |
| 1,2,3,7,8,9-HXCDF | 31 | 3 | ND | - | 4.96E-06 | 2.35E-06 | 2.47E-06 | 1.23E-07 |
| 1,2,3,7,8-PECDF | 31 | 61 | ND | - | 2.36E-04 | 1.57E-05 | 2.79E-05 | 7.74E-06 |
| 2,3,4,6,7,8-HXCDF | 31 | 10 | ND | - | 4.96E-06 | 2.35E-06 | 2.42E-06 | 1.39E-07 |
| 2,3,4,7,8-PECDF | 31 | 55 | ND | - | 9.85E-06 | 2.40E-06 | 3.30E-06 | 4.30E-07 |
| 2,3,7,8-TCDD | 31 | 13 | ND | - | 9.90E-07 | 4.50E-07 | 4.82E-07 | 2.72E-08 |
| 2,3,7,8-TCDF | 31 | 74 | ND | - | 3.01E-05 | 5.50E-06 | 7.87E-06 | 1.13E-06 |
| OCDD | 31 | 19 | ND | - | 4.13E-05 | 4.58E-06 | 5.54E-06 | 1.22E-06 |
| OCDF | 31 | 6 | ND | - | 4.38E-05 | 4.70E-06 | 6.08E-06 | 1.27E-06 |
| WHO TEQ (Human/Mammal) | 31 | -- | 5.04E-06 | - | 2.63E-05 | 7.09E-06 | 8.68E-06 | 7.42E-07 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Yellow Perch Offal** | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 30 | 47 | ND | - | 5.20E-06 | 2.43E-06 | 2.38E-06 | 1.58E-07 |
| 1,2,3,4,6,7,8-HPCDF | 30 | 90 | ND | - | 1.20E-03 | 3.39E-05 | 1.48E-04 | 5.42E-05 |
| 1,2,3,4,7,8,9-HPCDF | 30 | 20 | ND | - | 2.50E-06 | 1.83E-06 | 1.87E-06 | 9.43E-08 |
| 1,2,3,4,7,8-HXCDD | 30 | 3 | ND | - | 2.50E-06 | 2.05E-06 | 2.03E-06 | 7.57E-08 |
| 1,2,3,4,7,8-HXCDF | 30 | 30 | ND | - | 2.11E-03 | 2.25E-06 | 1.91E-04 | 1.00E-04 |
| 1,2,3,6,7,8-HXCDD | 30 | 3 | ND | - | 2.50E-06 | 2.08E-06 | 2.08E-06 | 6.04E-08 |
| 1,2,3,6,7,8-HXCDF | 30 | 17 | ND | - | 3.80E-06 | 2.15E-06 | 2.11E-06 | 9.56E-08 |
| 1,2,3,7,8,9-HXCDD | 30 | 3 | ND | - | 2.50E-06 | 2.05E-06 | 2.02E-06 | 7.99E-08 |
| 1,2,3,7,8,9-HXCDF | 30 | 10 | ND | - | 2.50E-06 | 1.90E-06 | 1.89E-06 | 1.09E-07 |
| 1,2,3,7,8-PECDF | 30 | 100 | 4.40E-06 | - | 1.44E-03 | 4.59E-04 | 5.38E-04 | 7.50E-05 |
| 2,3,4,6,7,8-HXCDF | 30 | 37 | ND | - | 1.25E-05 | 2.46E-06 | 4.14E-06 | 5.62E-07 |
| 2,3,4,7,8-PECDF | 30 | 77 | ND | - | 7.55E-05 | 4.06E-05 | 3.89E-05 | 3.86E-06 |
| 2,3,7,8-TCDD | 30 | 37 | ND | - | 3.80E-06 | 4.73E-07 | 9.61E-07 | 1.76E-07 |
| 2,3,7,8-TCDF | 30 | 90 | ND | - | 2.51E-04 | 8.28E-05 | 9.67E-05 | 9.30E-06 |
| OCDD | 30 | 43 | ND | - | 6.50E-06 | 3.68E-06 | 3.68E-06 | 2.39E-07 |
| OCDF | 30 | 23 | ND | - | 5.05E-06 | 3.70E-06 | 3.31E-06 | 2.93E-07 |
| WHO TEQ (Human/Mammal) | 30 | -- | 9.82E-06 | - | 3.23E-04 | 6.16E-05 | 8.10E-05 | 1.32E-05 |
| | **Yellow Perch Whole Body Reconstructed** | | | | | | | |
| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
| 1,2,3,4,6,7,8-HPCDD | 30 | 7 | ND | - | 6.58E-06 | 3.84E-06 | 3.93E-06 | 2.00E-07 |
| 1,2,3,4,6,7,8-HPCDF | 30 | 53 | ND | - | 8.27E-04 | 2.50E-05 | 1.04E-04 | 3.80E-05 |
| 1,2,3,4,7,8,9-HPCDF | 30 | 3 | ND | - | 6.58E-06 | 3.85E-06 | 3.94E-06 | 2.07E-07 |
| 1,2,3,4,7,8-HXCDF | 30 | 13 | ND | - | 1.33E-03 | 4.62E-06 | 1.36E-04 | 6.90E-05 |
| 1,2,3,6,7,8-HXCDF | 30 | 17 | ND | - | 6.58E-06 | 3.93E-06 | 3.98E-06 | 2.10E-07 |
| 1,2,3,7,8,9-HXCDF | 30 | 3 | ND | - | 6.58E-06 | 3.95E-06 | 4.14E-06 | 1.87E-07 |
| 1,2,3,7,8-PECDF | 30 | 60 | ND | - | 9.64E-04 | 3.40E-04 | 3.78E-04 | 5.29E-05 |
| 2,3,4,6,7,8-HXCDF | 30 | 10 | ND | - | 9.63E-06 | 4.75E-06 | 5.17E-06 | 2.82E-07 |
| 2,3,4,7,8-PECDF | 30 | 53 | ND | - | 5.10E-05 | 3.03E-05 | 2.97E-05 | 2.26E-06 |
| 2,3,7,8-TCDD | 30 | 13 | ND | - | 2.95E-06 | 9.30E-07 | 1.11E-06 | 9.80E-08 |
| 2,3,7,8-TCDF | 30 | 73 | ND | - | 1.79E-04 | 6.31E-05 | 7.14E-05 | 6.48E-06 |
| OCDD | 30 | 20 | ND | - | 2.03E-05 | 6.87E-06 | 7.01E-06 | 6.32E-07 |
| OCDF | 30 | 7 | ND | - | 2.11E-05 | 7.84E-06 | 7.81E-06 | 6.44E-07 |
| WHO TEQ (Human/Mammal) | 30 | -- | 8.24E-06 | - | 2.13E-04 | 4.25E-05 | 5.80E-05 | 9.34E-06 |
| | **Yellow Perch Whole Fish Composite** | | | | | | | |
| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
| 1,2,3,4,6,7,8-HPCDD | 10 | 10 | ND | - | 4.98E-06 | 2.40E-06 | 2.97E-06 | 4.57E-07 |
| 1,2,3,4,6,7,8-HPCDF | 10 | 70 | ND | - | 2.36E-05 | 6.30E-06 | 8.73E-06 | 2.19E-06 |
| 1,2,3,4,7,8-HXCDF | 10 | 10 | ND | - | 1.09E-05 | 3.37E-06 | 4.02E-06 | 8.65E-07 |
| 1,2,3,6,7,8-HXCDF | 10 | 10 | ND | - | 4.98E-06 | 2.70E-06 | 3.00E-06 | 4.77E-07 |
| 1,2,3,7,8-PECDF | 10 | 100 | 8.90E-06 | - | 3.39E-04 | 5.55E-05 | 8.63E-05 | 3.03E-05 |
| 2,3,4,6,7,8-HXCDF | 10 | 20 | ND | - | 4.98E-06 | 3.37E-06 | 3.16E-06 | 4.89E-07 |
| 2,3,4,7,8-PECDF | 10 | 70 | ND | - | 2.90E-05 | 1.89E-05 | 1.69E-05 | 2.57E-06 |
| 2,3,7,8-TCDF | 10 | 30 | ND | - | 8.81E-05 | 3.38E-05 | 3.91E-05 | 7.00E-06 |
| OCDD | 10 | 10 | ND | - | 9.96E-06 | 4.50E-06 | 5.50E-06 | 1.06E-06 |
| WHO TEQ (Human/Mammal) | 10 | -- | 1.26E-05 | - | 3.37E-05 | 2.24E-05 | 2.28E-05 | 2.27E-06 |

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Yellow Perch Skin-off Fillet** | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 15 | 7 | ND | - | 8.30E-06 | 4.80E-06 | 4.37E-06 | 3.96E-07 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 60 | ND | - | 2.63E-05 | 4.90E-06 | 6.01E-06 | 1.52E-06 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 7 | ND | - | 7.35E-06 | 4.80E-06 | 4.43E-06 | 3.29E-07 |
| 1,2,3,4,7,8-HXCDF | 15 | 13 | ND | - | 9.80E-06 | 4.85E-06 | 4.79E-06 | 4.86E-07 |
| 1,2,3,6,7,8-HXCDF | 15 | 7 | ND | - | 7.35E-06 | 4.80E-06 | 4.41E-06 | 3.31E-07 |
| 1,2,3,7,8,9-HXCDF | 15 | 7 | ND | - | 7.35E-06 | 4.80E-06 | 4.41E-06 | 3.31E-07 |
| 1,2,3,7,8-PECDF | 15 | 100 | 1.25E-05 | - | 5.62E-05 | 2.10E-05 | 2.59E-05 | 3.28E-06 |

# Table C-31
## PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Yellow Perch - Skin-off Fillet (continued)** | | | | | | | |
| 2,3,4,6,7,8-HXCDF | 15 | 7 | ND | - | 7.35E-06 | 4.85E-06 | 4.47E-06 | 3.31E-07 |
| 2,3,4,7,8-PECDF | 15 | 87 | ND | - | 1.77E-05 | 1.24E-05 | 9.99E-06 | 1.54E-06 |
| 2,3,7,8-TCDD | 15 | 7 | ND | - | 1.65E-06 | 9.50E-07 | 9.23E-07 | 8.38E-08 |
| 2,3,7,8-TCDF | 15 | 93 | ND | - | 6.52E-05 | 4.58E-05 | 3.77E-05 | 5.37E-06 |
| OCDD | 15 | 20 | ND | - | 1.47E-05 | 9.60E-06 | 8.31E-06 | 8.96E-07 |
| OCDF | 15 | 20 | ND | - | 1.47E-05 | 9.60E-06 | 8.18E-06 | 8.68E-07 |
| WHO TEQ (Human/Mammal) | 15 | -- | 6.41E-06 | - | 2.81E-05 | 2.03E-05 | 1.90E-05 | 1.79E-06 |
| | **Yellow Perch Offal** | | | | | | | |
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[3]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDD | 15 | 87 | ND | - | 3.50E-06 | 2.50E-06 | 2.50E-06 | 1.87E-07 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 73 | ND | - | 8.58E-05 | 2.09E-05 | 2.61E-05 | 6.98E-06 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 13 | ND | - | 4.70E-06 | 1.65E-06 | 1.91E-06 | 2.59E-07 |
| 1,2,3,4,7,8-HXCDD | 15 | 7 | ND | - | 4.70E-06 | 1.80E-06 | 1.99E-06 | 2.43E-07 |
| 1,2,3,4,7,8-HXCDF | 15 | 47 | ND | - | 2.83E-04 | 2.70E-06 | 3.47E-05 | 2.18E-05 |
| 1,2,3,6,7,8-HXCDD | 15 | 20 | ND | - | 4.70E-06 | 1.80E-06 | 2.10E-06 | 2.83E-07 |
| 1,2,3,6,7,8-HXCDF | 15 | 73 | ND | - | 3.90E-06 | 2.50E-06 | 2.48E-06 | 2.54E-07 |
| 1,2,3,7,8,9-HXCDF | 15 | 7 | ND | - | 4.70E-06 | 1.80E-06 | 2.06E-06 | 2.39E-07 |
| 1,2,3,7,8-PECDD | 15 | 7 | ND | - | 4.70E-06 | 1.90E-06 | 2.17E-06 | 2.04E-07 |
| 1,2,3,7,8-PECDF | 15 | 100 | 1.49E-05 | - | 6.97E-04 | 2.34E-04 | 2.58E-04 | 6.02E-05 |
| 2,3,4,6,7,8-HXCDF | 15 | 80 | ND | - | 1.10E-05 | 6.10E-06 | 5.56E-06 | 7.56E-07 |
| 2,3,4,7,8-PECDF | 15 | 47 | ND | - | 6.74E-05 | 3.56E-05 | 3.93E-05 | 3.58E-06 |
| 2,3,7,8-TCDD | 15 | 53 | ND | - | 5.60E-06 | 1.60E-06 | 1.81E-06 | 4.13E-07 |
| 2,3,7,8-TCDF | 15 | 47 | ND | - | 2.79E-04 | 1.51E-04 | 1.63E-04 | 1.27E-05 |
| OCDD | 15 | 7 | ND | - | 4.95E-06 | 1.40E-06 | 1.97E-06 | 3.36E-07 |
| WHO TEQ (Human/Mammal) | 15 | -- | 3.63E-05 | - | 1.14E-04 | 5.29E-05 | 5.82E-05 | 5.71E-06 |
| | **Yellow Perch Whole Body Reconstructed** | | | | | | | |
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[3]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDD | 15 | 7 | ND | - | 9.81E-06 | 5.18E-06 | 4.89E-06 | 4.81E-07 |
| 1,2,3,4,6,7,8-HPCDF | 15 | 60 | ND | - | 5.90E-05 | 1.37E-05 | 1.98E-05 | 4.74E-06 |
| 1,2,3,4,7,8,9-HPCDF | 15 | 7 | ND | - | 7.17E-06 | 5.50E-06 | 5.30E-06 | 3.50E-07 |
| 1,2,3,4,7,8-HXCDF | 15 | 13 | ND | - | 2.07E-04 | 5.59E-06 | 2.75E-05 | 1.52E-05 |
| 1,2,3,6,7,8-HXCDF | 15 | 7 | ND | - | 6.25E-06 | 4.64E-06 | 4.75E-06 | 2.32E-07 |
| 1,2,3,7,8,9-HXCDF | 15 | 7 | ND | - | 7.17E-06 | 5.50E-06 | 5.50E-06 | 2.56E-07 |
| 1,2,3,7,8-PECDF | 15 | 100 | 1.55E-05 | - | 5.07E-04 | 1.39E-04 | 1.78E-04 | 4.12E-05 |
| 2,3,4,6,7,8-HXCDF | 15 | 7 | ND | - | 9.13E-06 | 6.62E-06 | 6.80E-06 | 3.47E-07 |
| 2,3,4,7,8-PECDF | 15 | 87 | ND | - | 5.55E-05 | 3.96E-05 | 3.98E-05 | 2.13E-06 |
| 2,3,7,8-TCDD | 15 | 7 | ND | - | 4.23E-06 | 1.66E-06 | 1.96E-06 | 2.42E-07 |
| 2,3,7,8-TCDF | 15 | 93 | ND | - | 2.64E-04 | 1.70E-04 | 1.67E-04 | 1.29E-05 |
| OCDD | 15 | 20 | ND | - | 1.24E-05 | 8.16E-06 | 7.77E-06 | 8.23E-07 |
| OCDF | 15 | 20 | ND | - | 1.53E-05 | 1.10E-05 | 1.07E-05 | 7.00E-07 |
| WHO TEQ (Human/Mammal) | 15 | -- | 3.07E-05 | - | 8.86E-05 | 4.22E-05 | 4.51E-05 | 4.10E-06 |
| | **Yellow Perch Whole Fish Composite** | | | | | | | |
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[3]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDD | 5 | 80 | ND | - | 1.85E-06 | 1.20E-06 | 1.27E-06 | 1.74E-07 |
| 1,2,3,4,6,7,8-HPCDF | 5 | 60 | ND | - | 3.90E-06 | 2.15E-06 | 2.64E-06 | 4.92E-07 |
| 1,2,3,4,7,8-HXCDF | 5 | 60 | ND | - | 5.60E-06 | 2.25E-06 | 3.00E-06 | 7.26E-07 |
| 1,2,3,6,7,8-HXCDF | 5 | 20 | ND | - | 2.25E-06 | 2.05E-06 | 2.06E-06 | 6.78E-08 |
| 1,2,3,7,8-PECDF | 5 | 60 | ND | - | 6.97E-05 | 2.87E-05 | 3.23E-05 | 9.95E-06 |
| 2,3,4,6,7,8-HXCDF | 5 | 60 | ND | - | 2.25E-06 | 2.10E-06 | 1.96E-06 | 1.37E-07 |
| 2,3,4,7,8-PECDF | 5 | 100 | 2.49E-05 | - | 3.51E-05 | 2.63E-05 | 2.79E-05 | 1.84E-06 |
| 2,3,7,8-TCDD | 5 | 40 | ND | - | 1.80E-06 | 4.50E-07 | 8.20E-07 | 2.69E-07 |
| 2,3,7,8-TCDF | 5 | 40 | ND | - | 1.28E-04 | 5.62E-05 | 8.38E-05 | 1.79E-05 |
| OCDD | 5 | 80 | ND | - | 6.50E-06 | 4.60E-06 | 4.78E-06 | 6.73E-07 |
| WHO TEQ (Human/Mammal) | 5 | -- | 2.43E-05 | - | 3.12E-05 | 3.05E-05 | 2.84E-05 | 1.54E-06 |

# Table C-31
# PCDD/PCDF Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Yellow Perch Skin-off Fillet** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 6 | 17 | ND | - | 4.80E-06 | 2.43E-06 | 2.82E-06 | 6.47E-07 |
| 1,2,3,4,6,7,8-HPCDF | 6 | 50 | ND | - | 6.20E-06 | 2.43E-06 | 3.24E-06 | 7.02E-07 |
| 1,2,3,4,7,8,9-HPCDF | 6 | 17 | ND | - | 4.80E-06 | 2.43E-06 | 2.77E-06 | 6.84E-07 |
| 1,2,3,4,7,8-HXCDF | 6 | 33 | ND | - | 9.00E-06 | 2.43E-06 | 3.48E-06 | 1.23E-06 |
| 1,2,3,6,7,8-HXCDF | 6 | 33 | ND | - | 4.45E-06 | 2.33E-06 | 2.22E-06 | 5.46E-07 |
| 1,2,3,7,8,9-HXCDF | 6 | 17 | ND | - | 4.80E-06 | 2.43E-06 | 2.77E-06 | 6.84E-07 |
| 1,2,3,7,8-PECDF | 6 | 50 | ND | - | 4.00E-05 | 1.22E-05 | 1.65E-05 | 6.23E-06 |
| 2,3,4,6,7,8-HXCDF | 6 | 17 | ND | - | 4.80E-06 | 2.43E-06 | 2.88E-06 | 6.01E-07 |
| 2,3,4,7,8-PECDF | 6 | 83 | ND | - | 1.74E-05 | 8.40E-06 | 9.86E-06 | 2.37E-06 |
| 2,3,7,8-TCDF | 6 | 100 | 1.43E-05 | - | 5.13E-05 | 2.67E-05 | 2.86E-05 | 5.87E-06 |
| OCDD | 6 | 17 | ND | - | 9.60E-06 | 4.88E-06 | 5.74E-06 | 1.22E-06 |
| OCDF | 6 | 17 | ND | - | 9.60E-06 | 4.88E-06 | 5.69E-06 | 1.26E-06 |
| WHO TEQ (Human/Mammal) | 6 | -- | 8.58E-06 | - | 2.45E-05 | 1.33E-05 | 1.46E-05 | 2.43E-06 |
| **Yellow Perch Offal** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 6 | 67 | ND | - | 3.90E-06 | 2.36E-06 | 2.40E-06 | 4.38E-07 |
| 1,2,3,4,6,7,8-HPCDF | 6 | 100 | 1.88E-05 | - | 2.81E-04 | 7.28E-05 | 1.10E-04 | 4.34E-05 |
| 1,2,3,4,7,8,9-HPCDF | 6 | 17 | ND | - | 2.50E-06 | 2.46E-06 | 2.07E-06 | 3.76E-07 |
| 1,2,3,4,7,8-HXCDF | 6 | 67 | ND | - | 6.17E-04 | 1.24E-04 | 2.18E-04 | 1.04E-04 |
| 1,2,3,7,8-PECDF | 6 | 100 | 9.04E-05 | - | 8.24E-04 | 2.34E-04 | 3.62E-04 | 1.29E-04 |
| 2,3,4,6,7,8-HXCDF | 6 | 67 | ND | - | 1.14E-05 | 4.80E-06 | 5.52E-06 | 1.47E-06 |
| 2,3,4,7,8-PECDF | 6 | 100 | 3.57E-05 | - | 2.29E-04 | 5.80E-05 | 7.99E-05 | 3.02E-05 |
| 2,3,7,8-TCDD | 6 | 33 | ND | - | 5.00E-07 | 4.73E-07 | 3.58E-07 | 8.17E-08 |
| 2,3,7,8-TCDF | 6 | 100 | 9.57E-05 | - | 2.88E-04 | 1.34E-04 | 1.56E-04 | 2.79E-05 |
| WHO TEQ (Human/Mammal) | 6 | -- | 3.66E-05 | - | 2.46E-04 | 7.42E-05 | 1.01E-04 | 3.23E-05 |
| **Yellow Perch Whole Body Reconstructed** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 6 | 17 | ND | - | 6.04E-06 | 4.41E-06 | 3.97E-06 | 7.65E-07 |
| 1,2,3,4,6,7,8-HPCDF | 6 | 50 | ND | - | 1.95E-04 | 5.01E-05 | 7.88E-05 | 3.05E-05 |
| 1,2,3,4,7,8,9-HPCDF | 6 | 17 | ND | - | 6.53E-06 | 4.90E-06 | 4.60E-06 | 7.21E-07 |
| 1,2,3,4,7,8-HXCDF | 6 | 33 | ND | - | 4.62E-04 | 8.48E-05 | 1.58E-04 | 7.63E-05 |
| 1,2,3,6,7,8-HXCDF | 6 | 33 | ND | - | 6.04E-06 | 4.90E-06 | 4.68E-06 | 3.67E-07 |
| 1,2,3,7,8,9-HXCDF | 6 | 17 | ND | - | 6.53E-06 | 4.90E-06 | 5.13E-06 | 4.31E-07 |
| 1,2,3,7,8-PECDF | 6 | 50 | ND | - | 5.75E-04 | 1.62E-04 | 2.59E-04 | 9.40E-05 |
| 2,3,4,6,7,8-HXCDF | 6 | 17 | ND | - | 9.68E-06 | 5.97E-06 | 6.18E-06 | 1.03E-06 |
| 2,3,4,7,8-PECDF | 6 | 83 | ND | - | 1.76E-04 | 4.20E-05 | 5.97E-05 | 2.34E-05 |
| 2,3,7,8-TCDF | 6 | 100 | 7.07E-05 | - | 2.24E-04 | 1.04E-04 | 1.17E-04 | 2.25E-05 |
| OCDD | 6 | 17 | ND | - | 1.31E-05 | 9.81E-06 | 1.03E-05 | 8.26E-07 |
| OCDF | 6 | 17 | ND | - | 1.31E-05 | 9.81E-06 | 1.03E-05 | 8.37E-07 |
| WHO TEQ (Human/Mammal) | 6 | -- | 2.87E-05 | - | 1.88E-04 | 5.51E-05 | 7.57E-05 | 2.48E-05 |
| **Yellow Perch Whole Fish Composite** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 5 | 80 | ND | - | 2.43E-06 | 9.00E-07 | 1.19E-06 | 3.70E-07 |
| 1,2,3,4,6,7,8-HPCDF | 5 | 100 | 6.30E-06 | - | 1.92E-05 | 7.30E-06 | 9.44E-06 | 2.45E-06 |
| 1,2,3,4,7,8,9-HPCDF | 5 | 60 | ND | - | 5.00E-06 | 3.00E-07 | 1.63E-06 | 9.45E-07 |
| 1,2,3,4,7,8-HXCDF | 5 | 80 | ND | - | 1.86E-05 | 1.20E-05 | 1.11E-05 | 2.61E-06 |
| 1,2,3,6,7,8-HXCDF | 5 | 80 | ND | - | 2.43E-06 | 9.00E-07 | 1.19E-06 | 3.21E-07 |
| 1,2,3,7,8,9-HXCDF | 5 | 40 | ND | - | 5.00E-06 | 2.43E-06 | 2.11E-06 | 8.73E-07 |
| 1,2,3,7,8-PECDF | 5 | 100 | 1.94E-05 | - | 4.01E-05 | 2.59E-05 | 2.88E-05 | 4.03E-06 |
| 2,3,4,6,7,8-HXCDF | 5 | 80 | ND | - | 2.43E-06 | 1.40E-06 | 1.43E-06 | 3.07E-07 |
| 2,3,4,7,8-PECDF | 5 | 100 | 1.07E-05 | - | 1.70E-05 | 1.45E-05 | 1.40E-05 | 1.02E-06 |
| 2,3,7,8-TCDF | 5 | 100 | 3.94E-05 | - | 5.30E-05 | 4.20E-05 | 4.37E-05 | 2.46E-06 |
| WHO TEQ (Human/Mammal) | 5 | -- | 1.56E-05 | - | 2.56E-05 | 2.05E-05 | 2.04E-05 | 1.75E-06 |

# Table C-31
# PCDD/PCDF Data Summary Table for Fish

Notes:

1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. -- = Not Applicable.

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| | Bluegill Skin-off Fillet | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - -- | -- | 5.86E-03 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | - -- | -- | 1.60E-03 | -- |
| 4,4'-DDD | 1 | 100 | -- | - -- | -- | 8.19E-03 | -- |
| 4,4'-DDE | 1 | 100 | -- | - -- | -- | 5.04E-03 | -- |
| 4,4'-DDT | 1 | 100 | -- | - -- | -- | 9.48E-04 | -- |
| Cis-Nonachlor | 1 | 100 | -- | - -- | -- | 1.34E-02 | -- |
| Hexachlorobenzene | 1 | 100 | -- | - -- | -- | 3.60E-04 | -- |
| O,P'-DDD | 1 | 100 | -- | - -- | -- | 2.14E-02 | -- |
| O,P'-DDT | 1 | 100 | -- | - -- | -- | 2.00E-02 | -- |
| Oxychlordane | 1 | 100 | -- | - -- | -- | 3.75E-03 | -- |
| Pentachloroanisole | 1 | 100 | -- | - -- | -- | 9.70E-05 | -- |
| Pentachlorobenzene | 1 | 100 | -- | - -- | -- | 3.45E-03 | -- |
| Trans-Nonachlor | 1 | 100 | -- | - -- | -- | 7.35E-04 | -- |

| | Bluegill Offal | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - -- | -- | 1.47E-01 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | - -- | -- | 2.07E-02 | -- |
| 4,4'-DDD | 1 | 100 | -- | - -- | -- | 2.33E-01 | -- |
| 4,4'-DDE | 1 | 100 | -- | - -- | -- | 2.64E-01 | -- |
| 4,4'-DDT | 1 | 100 | -- | - -- | -- | 1.61E-02 | -- |
| Alpha-BHC | 1 | 100 | -- | - -- | -- | 2.87E-04 | -- |
| Alpha-Chlordane | 1 | 100 | -- | - -- | -- | 2.13E-02 | -- |
| Chlorpyrifos | 1 | 100 | -- | - -- | -- | 9.69E-04 | -- |
| Cis-Nonachlor | 1 | 100 | -- | - -- | -- | 3.19E-01 | -- |
| Dieldrin | 1 | 100 | -- | - -- | -- | 1.04E-02 | -- |
| Endosulfan II | 1 | 100 | -- | - -- | -- | 1.31E-01 | -- |
| Endrin | 1 | 100 | -- | - -- | -- | 3.51E-04 | -- |
| Hexachlorobenzene | 1 | 100 | -- | - -- | -- | 9.04E-03 | -- |
| O,P'-DDD | 1 | 100 | -- | - -- | -- | 4.61E-01 | -- |
| O,P'-DDT | 1 | 100 | -- | - -- | -- | 5.83E-01 | -- |
| Pentachloroanisole | 1 | 100 | -- | - -- | -- | 1.92E-03 | -- |
| Pentachlorobenzene | 1 | 100 | -- | - -- | -- | 1.10E-01 | -- |
| Trans-Nonachlor | 1 | 100 | -- | - -- | -- | 1.16E-02 | -- |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| | Brown Bullhead Skin-off Fillet | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 18 | 89 | ND | - 3.11E-02 | 5.06E-03 | 9.62E-03 | 2.25E-03 |
| 1,2,4,5-Tetrachlorobenzene | 18 | 100 | 6.70E-05 | - 1.73E-02 | 1.20E-03 | 2.71E-03 | 9.61E-04 |
| 4,4'-DDD | 18 | 94 | ND | - 1.14E-02 | 2.56E-03 | 3.64E-03 | 7.67E-04 |
| 4,4'-DDE | 18 | 83 | ND | - 3.73E-02 | 4.21E-03 | 8.33E-03 | 2.45E-03 |
| 4,4'-DDT | 18 | 11 | ND | - 1.70E-03 | 1.50E-03 | 1.32E-03 | 9.89E-05 |
| Alpha-BHC | 18 | 28 | ND | - 1.70E-03 | 1.35E-03 | 1.12E-03 | 1.38E-04 |
| Alpha-Chlordane | 18 | 6 | ND | - 1.70E-03 | 1.50E-03 | 1.40E-03 | 5.64E-05 |
| Beta-BHC | 18 | 28 | ND | - 1.70E-03 | 9.96E-04 | 8.57E-04 | 1.59E-04 |
| Chlorpyrifos | 18 | 44 | ND | - 1.64E-03 | 6.12E-04 | 7.10E-04 | 1.53E-04 |
| Cis-Nonachlor | 18 | 100 | 6.63E-04 | - 3.90E-02 | 7.97E-03 | 1.22E-02 | 2.38E-03 |
| Delta-BHC | 18 | 28 | ND | - 2.55E-03 | 1.46E-03 | 1.30E-03 | 1.37E-04 |
| Dieldrin | 18 | 61 | ND | - 7.87E-03 | 9.63E-04 | 1.27E-03 | 4.12E-04 |
| Endosulfan II | 18 | 28 | ND | - 9.93E-03 | 1.61E-03 | 2.79E-03 | 6.48E-04 |
| Gamma BHC (Lindane) | 18 | 50 | ND | - 1.65E-03 | 6.93E-04 | 7.63E-04 | 1.59E-04 |
| Gamma Chlordane | 18 | 61 | ND | - 1.65E-03 | 9.85E-04 | 8.84E-04 | 1.42E-04 |
| Heptachlor | 18 | 11 | ND | - 1.70E-03 | 1.50E-03 | 1.38E-03 | 7.92E-05 |
| Heptachlor epoxide | 18 | 6 | ND | - 1.70E-03 | 1.50E-03 | 1.42E-03 | 5.41E-05 |
| Hexachlorobenzene | 18 | 89 | ND | - 1.58E-03 | 3.63E-04 | 5.75E-04 | 1.14E-04 |
| O,P'-DDD | 18 | 100 | 1.46E-03 | - 5.85E-02 | 1.29E-02 | 1.80E-02 | 3.50E-03 |
| O,P'-DDE | 18 | 6 | ND | - 1.70E-03 | 1.51E-03 | 1.43E-03 | 5.57E-05 |
| O,P'-DDT | 18 | 100 | 1.12E-03 | - 6.21E-02 | 1.10E-02 | 1.73E-02 | 3.78E-03 |
| Oxychlordane | 18 | 78 | ND | - 2.84E-03 | 5.28E-04 | 8.97E-04 | 1.96E-04 |
| Pentachloroanisole | 18 | 89 | ND | - 9.83E-04 | 1.53E-04 | 2.97E-04 | 7.21E-05 |
| Pentachlorobenzene | 18 | 83 | ND | - 1.46E-02 | 3.34E-03 | 4.26E-03 | 9.62E-04 |
| Trans-Nonachlor | 18 | 78 | ND | - 2.74E-03 | 8.41E-04 | 9.60E-04 | 1.85E-04 |

| | Brown Bullhead Offal | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 18 | 100 | 4.94E-03 | - 1.24E-01 | 5.18E-02 | 5.40E-02 | 7.49E-03 |
| 1,2,4,5-Tetrachlorobenzene | 18 | 89 | ND | - 2.10E-02 | 1.19E-02 | 1.12E-02 | 1.46E-03 |
| 4,4'-DDD | 18 | 56 | ND | - 7.90E-02 | 1.71E-02 | 1.88E-02 | 5.08E-03 |
| 4,4'-DDE | 18 | 100 | 1.92E-02 | - 3.36E-01 | 1.29E-01 | 1.28E-01 | 2.09E-02 |
| 4,4'-DDT | 18 | 78 | ND | - 1.32E-02 | 2.27E-03 | 4.10E-03 | 8.95E-04 |
| Aldrin | 18 | 22 | ND | - 1.22E-03 | 9.83E-04 | 9.36E-04 | 4.94E-05 |
| Alpha-BHC | 18 | 67 | ND | - 9.80E-04 | 4.36E-04 | 5.66E-04 | 7.22E-05 |
| Alpha-Chlordane | 18 | 78 | ND | - 2.23E-02 | 6.61E-03 | 6.10E-03 | 1.27E-03 |
| Beta-BHC | 18 | 72 | ND | - 3.02E-03 | 3.53E-04 | 6.02E-04 | 1.63E-04 |
| Chlorpyrifos | 18 | 39 | ND | - 1.02E-03 | 9.10E-04 | 7.28E-04 | 8.08E-05 |
| Cis-Nonachlor | 18 | 44 | ND | - 2.03E-01 | 1.03E-03 | 4.70E-02 | 1.59E-02 |
| Delta-BHC | 18 | 33 | ND | - 4.34E-03 | 9.55E-04 | 1.02E-03 | 2.08E-04 |
| Dieldrin | 18 | 67 | ND | - 4.05E-02 | 3.25E-03 | 8.49E-03 | 2.97E-03 |
| Endosulfan II | 18 | 39 | ND | - 4.36E-02 | 1.01E-03 | 1.02E-02 | 3.43E-03 |
| Endrin | 18 | 56 | ND | - 1.65E-03 | 9.14E-04 | 8.26E-04 | 8.25E-05 |
| Gamma BHC (Lindane) | 18 | 100 | 1.70E-05 | - 2.63E-03 | 3.16E-04 | 4.79E-04 | 1.42E-04 |
| Gamma Chlordane | 18 | 94 | ND | - 6.10E-03 | 2.85E-03 | 2.98E-03 | 3.86E-04 |
| Heptachlor | 18 | 11 | ND | - 1.19E-03 | 9.77E-04 | 9.49E-04 | 2.85E-05 |
| Hexachlorobenzene | 18 | 100 | 4.00E-04 | - 7.29E-03 | 3.55E-03 | 3.47E-03 | 4.21E-04 |
| Mirex | 18 | 50 | ND | - 5.98E-03 | 1.09E-03 | 1.74E-03 | 2.94E-04 |
| O,P'-DDD | 18 | 100 | 2.45E-02 | - 3.14E-01 | 1.24E-01 | 1.41E-01 | 1.94E-02 |
| O,P'-DDT | 18 | 100 | 2.83E-02 | - 3.47E-01 | 1.10E-01 | 1.40E-01 | 2.18E-02 |
| Oxychlordane | 18 | 28 | ND | - 1.01E-02 | 1.00E-03 | 2.69E-03 | 6.98E-04 |
| Pentachloroanisole | 18 | 100 | 2.19E-04 | - 4.21E-03 | 1.96E-03 | 1.90E-03 | 2.27E-04 |
| Pentachlorobenzene | 18 | 100 | 2.47E-03 | - 7.16E-02 | 2.44E-02 | 2.82E-02 | 4.38E-03 |
| Trans-Nonachlor | 18 | 100 | 1.12E-03 | - 1.47E-02 | 4.98E-03 | 5.87E-03 | 7.43E-04 |

## Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Brown Bullhead Whole Body | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 2 | 100 | 1.32E-02 | - | 3.27E-02 | 2.29E-02 | 2.29E-02 | 9.78E-03 |
| 1,2,4,5-Tetrachlorobenzene | 2 | 100 | 4.42E-03 | - | 8.22E-03 | 6.32E-03 | 6.32E-03 | 1.90E-03 |
| 4,4'-DDD | 2 | 100 | 1.45E-02 | - | 1.64E-02 | 1.54E-02 | 1.54E-02 | 9.45E-04 |
| 4,4'-DDE | 2 | 100 | 2.65E-02 | - | 3.71E-02 | 3.18E-02 | 3.18E-02 | 5.31E-03 |
| 4,4'-DDT | 2 | 100 | 5.96E-04 | - | 6.68E-04 | 6.32E-04 | 6.32E-04 | 3.60E-05 |
| Alpha-BHC | 2 | 50 | ND | - | 9.62E-04 | 5.59E-04 | 5.59E-04 | 4.03E-04 |
| Cis-Nonachlor | 2 | 100 | 3.35E-02 | - | 4.47E-02 | 3.91E-02 | 3.91E-02 | 5.57E-03 |
| Dieldrin | 2 | 100 | 3.06E-03 | - | 4.90E-03 | 3.98E-03 | 3.98E-03 | 9.21E-04 |
| Endosulfan II | 2 | 50 | ND | - | 1.37E-02 | 7.34E-03 | 7.34E-03 | 6.40E-03 |
| Gamma BHC (Lindane) | 2 | 100 | 2.98E-04 | - | 4.16E-04 | 3.57E-04 | 3.57E-04 | 5.90E-05 |
| Gamma Chlordane | 2 | 100 | 1.64E-03 | - | 2.25E-03 | 1.95E-03 | 1.95E-03 | 3.06E-04 |
| Heptachlor epoxide | 2 | 50 | ND | - | 1.01E-03 | 9.86E-04 | 9.86E-04 | 2.42E-05 |
| Hexachlorobenzene | 2 | 100 | 2.17E-03 | - | 2.29E-03 | 2.23E-03 | 2.23E-03 | 6.05E-05 |
| Mirex | 2 | 50 | ND | - | 9.62E-04 | 6.69E-04 | 6.69E-04 | 2.93E-04 |
| O,P'-DDD | 2 | 100 | 1.88E-03 | - | 6.08E-02 | 3.13E-02 | 3.13E-02 | 2.94E-02 |
| O,P'-DDE | 2 | 50 | ND | - | 9.62E-04 | 7.13E-04 | 7.13E-04 | 2.49E-04 |
| O,P'-DDT | 2 | 100 | 1.88E-03 | - | 6.53E-02 | 3.36E-02 | 3.36E-02 | 3.17E-02 |
| Oxychlordane | 2 | 50 | ND | - | 4.16E-03 | 2.55E-03 | 2.55E-03 | 1.61E-03 |
| Pentachloroanisole | 2 | 100 | 8.02E-04 | - | 1.50E-03 | 1.15E-03 | 1.15E-03 | 3.48E-04 |
| Pentachlorobenzene | 2 | 100 | 1.13E-02 | - | 1.50E-02 | 1.31E-02 | 1.31E-02 | 1.84E-03 |
| Trans-Nonachlor | 2 | 100 | 2.18E-03 | - | 4.05E-03 | 3.12E-03 | 3.12E-03 | 9.35E-04 |

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Brown Bullhead Skin-off Fillet | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 25 | 100 | 2.33E-03 | - | 4.92E-02 | 1.07E-02 | 1.39E-02 | 2.20E-03 |
| 1,2,4,5-Tetrachlorobenzene | 25 | 96 | ND | - | 1.73E-02 | 4.29E-03 | 4.38E-03 | 7.17E-04 |
| 4,4'-DDD | 25 | 100 | 2.04E-03 | - | 5.19E-02 | 9.20E-03 | 1.13E-02 | 2.13E-03 |
| 4,4'-DDE | 25 | 96 | ND | - | 2.30E-01 | 3.10E-02 | 3.71E-02 | 8.51E-03 |
| 4,4'-DDT | 25 | 36 | ND | - | 2.93E-03 | 9.98E-04 | 1.07E-03 | 1.21E-04 |
| Aldrin | 25 | 20 | ND | - | 2.46E-03 | 9.94E-04 | 1.02E-03 | 8.44E-05 |
| Alpha-BHC | 25 | 84 | ND | - | 2.46E-03 | 1.07E-04 | 2.41E-04 | 1.02E-04 |
| Alpha-Chlordane | 25 | 60 | ND | - | 4.43E-03 | 1.35E-03 | 1.52E-03 | 1.72E-04 |
| Beta-BHC | 25 | 44 | ND | - | 2.46E-03 | 9.75E-04 | 6.56E-04 | 1.15E-04 |
| Chlorpyrifos | 25 | 76 | ND | - | 2.46E-03 | 1.70E-04 | 3.95E-04 | 1.07E-04 |
| Cis-Nonachlor | 25 | 92 | ND | - | 2.06E-01 | 3.28E-02 | 3.65E-02 | 7.86E-03 |
| Delta-BHC | 25 | 28 | ND | - | 4.23E-03 | 1.00E-03 | 1.29E-03 | 1.65E-04 |
| Dieldrin | 25 | 100 | 5.04E-04 | - | 9.62E-03 | 1.06E-03 | 2.05E-03 | 3.88E-04 |
| Endosulfan II | 25 | 88 | ND | - | 3.93E-02 | 7.58E-03 | 1.01E-02 | 1.92E-03 |
| Endrin | 25 | 28 | ND | - | 2.46E-03 | 9.94E-04 | 9.23E-04 | 1.05E-04 |
| Gamma BHC (Lindane) | 25 | 96 | ND | - | 1.00E-03 | 1.78E-04 | 2.37E-04 | 4.43E-05 |
| Gamma Chlordane | 25 | 96 | ND | - | 3.67E-03 | 8.95E-04 | 1.14E-03 | 1.82E-04 |
| Heptachlor | 25 | 56 | ND | - | 2.46E-03 | 4.34E-04 | 6.52E-04 | 1.27E-04 |
| Heptachlor epoxide | 25 | 28 | ND | - | 1.34E-02 | 1.12E-03 | 1.63E-03 | 4.91E-04 |
| Hexachlorobenzene | 25 | 96 | ND | - | 3.04E-03 | 9.26E-04 | 1.01E-03 | 1.45E-04 |
| O,P'-DDD | 25 | 100 | 1.74E-02 | - | 2.90E-01 | 4.46E-02 | 5.93E-02 | 1.12E-02 |
| O,P'-DDE | 25 | 20 | ND | - | 3.08E-03 | 1.12E-03 | 1.39E-03 | 1.25E-04 |
| O,P'-DDT | 25 | 100 | 5.79E-03 | - | 3.80E-01 | 4.01E-02 | 5.89E-02 | 1.44E-02 |
| Oxychlordane | 25 | 52 | ND | - | 5.55E-03 | 1.53E-03 | 2.66E-03 | 3.37E-04 |
| Pentachloroanisole | 25 | 100 | 1.47E-04 | - | 1.45E-03 | 5.35E-04 | 5.56E-04 | 7.09E-05 |
| Pentachlorobenzene | 25 | 100 | 1.04E-03 | - | 1.96E-02 | 4.73E-03 | 6.58E-03 | 1.08E-03 |
| Trans-Nonachlor | 25 | 96 | ND | - | 8.47E-03 | 1.45E-03 | 1.91E-03 | 3.31E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Brown Bullhead Offal | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 25 | 92 | ND | - | 1.25E-01 | 1.75E-02 | 2.64E-02 | 5.91E-03 |
| 1,2,4,5-Tetrachlorobenzene | 25 | 100 | 1.68E-03 | - | 2.61E-02 | 9.87E-03 | 1.06E-02 | 1.34E-03 |
| 4,4'-DDD | 25 | 96 | ND | - | 4.35E-02 | 2.57E-02 | 2.43E-02 | 2.36E-03 |
| 4,4'-DDE | 25 | 96 | ND | - | 3.14E-01 | 7.82E-02 | 1.07E-01 | 1.50E-02 |
| 4,4'-DDT | 25 | 48 | ND | - | 6.01E-03 | 9.75E-04 | 1.42E-03 | 2.46E-04 |
| Aldrin | 25 | 8 | ND | - | 1.07E-03 | 9.86E-04 | 9.43E-04 | 1.58E-05 |
| Alpha-BHC | 25 | 32 | ND | - | 1.00E-03 | 8.75E-04 | 7.08E-04 | 7.32E-05 |
| Alpha-Chlordane | 25 | 20 | ND | - | 2.95E-01 | 9.90E-04 | 1.37E-02 | 1.17E-02 |
| Beta-BHC | 25 | 40 | ND | - | 2.27E-03 | 9.86E-04 | 7.59E-04 | 1.01E-04 |
| Chlorpyrifos | 25 | 68 | ND | - | 1.00E-03 | 2.25E-04 | 4.14E-04 | 7.95E-05 |
| Cis-Nonachlor | 25 | 96 | ND | - | 3.24E-01 | 7.78E-02 | 9.71E-02 | 1.44E-02 |
| Delta-BHC | 25 | 48 | ND | - | 1.02E-02 | 9.75E-04 | 2.07E-03 | 5.34E-04 |
| Dieldrin | 25 | 96 | ND | - | 1.03E-02 | 3.72E-03 | 4.24E-03 | 5.47E-04 |
| Endosulfan II | 25 | 80 | ND | - | 7.46E-02 | 2.27E-02 | 2.29E-02 | 3.47E-03 |
| Endrin | 25 | 12 | ND | - | 1.71E-03 | 9.86E-04 | 9.20E-04 | 5.13E-05 |
| Gamma BHC (Lindane) | 25 | 100 | 2.80E-05 | - | 2.10E-03 | 3.90E-04 | 5.52E-04 | 9.90E-05 |
| Gamma Chlordane | 25 | 100 | 1.18E-04 | - | 7.20E-03 | 2.04E-03 | 2.11E-03 | 3.03E-04 |
| Heptachlor | 25 | 12 | ND | - | 1.00E-03 | 9.60E-04 | 8.48E-04 | 5.29E-05 |
| Heptachlor epoxide | 25 | 40 | ND | - | 1.07E-02 | 9.96E-04 | 2.69E-03 | 5.83E-04 |
| Hexachlorobenzene | 25 | 100 | 1.92E-04 | - | 5.25E-03 | 1.69E-03 | 1.94E-03 | 2.31E-04 |
| Mirex | 25 | 4 | ND | - | 1.48E-03 | 9.88E-04 | 9.68E-04 | 2.59E-05 |
| O,P'-DDD | 25 | 100 | 4.64E-02 | - | 3.57E-01 | 1.55E-01 | 1.67E-01 | 1.68E-02 |
| O,P'-DDE | 25 | 12 | ND | - | 1.18E-02 | 9.86E-04 | 1.85E-03 | 5.29E-04 |
| O,P'-DDT | 25 | 96 | ND | - | 3.02E-01 | 1.33E-01 | 1.47E-01 | 1.84E-02 |
| Oxychlordane | 25 | 40 | ND | - | 3.52E-02 | 9.96E-04 | 7.24E-03 | 1.91E-03 |
| Pentachloroanisole | 25 | 100 | 1.62E-04 | - | 3.55E-03 | 1.24E-03 | 1.30E-03 | 1.47E-04 |
| Pentachlorobenzene | 25 | 100 | 1.41E-03 | - | 5.31E-02 | 1.40E-02 | 1.49E-02 | 2.27E-03 |
| Trans-Nonachlor | 25 | 100 | 6.27E-04 | - | 1.03E-01 | 4.39E-03 | 7.85E-03 | 4.00E-03 |

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Brown Bullhead Skin-off Fillet | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 7 | 100 | 2.49E-04 | - | 1.43E-03 | 6.40E-04 | 6.95E-04 | 1.46E-04 |
| 1,2,4,5-Tetrachlorobenzene | 7 | 14 | ND | - | 7.73E-04 | 3.83E-04 | 3.67E-04 | 9.07E-05 |
| 4,4'-DDD | 7 | 100 | 5.24E-04 | - | 3.42E-03 | 1.38E-03 | 1.54E-03 | 3.64E-04 |
| 4,4'-DDE | 7 | 100 | 2.61E-03 | - | 1.36E-02 | 5.49E-03 | 6.33E-03 | 1.35E-03 |
| 4,4'-DDT | 7 | 100 | 1.17E-04 | - | 2.66E-04 | 1.71E-04 | 1.83E-04 | 2.42E-05 |
| Alpha-BHC | 7 | 100 | 5.90E-05 | - | 1.56E-04 | 1.24E-04 | 1.14E-04 | 1.45E-05 |
| Alpha-Chlordane | 7 | 86 | ND | - | 9.96E-04 | 4.08E-04 | 4.65E-04 | 9.94E-05 |
| Beta-BHC | 7 | 14 | ND | - | 9.98E-04 | 9.94E-04 | 8.54E-04 | 1.40E-04 |
| Chlorpyrifos | 7 | 14 | ND | - | 9.96E-04 | 8.20E-05 | 2.22E-04 | 1.29E-04 |
| Cis-Nonachlor | 7 | 100 | 1.26E-03 | - | 7.36E-03 | 2.98E-03 | 3.24E-03 | 7.40E-04 |
| Dieldrin | 7 | 71 | ND | - | 9.94E-04 | 8.70E-05 | 3.37E-04 | 1.70E-04 |
| Endosulfan II | 7 | 100 | 5.92E-04 | - | 3.57E-03 | 2.16E-03 | 2.25E-03 | 4.41E-04 |
| Endrin | 7 | 14 | ND | - | 9.98E-04 | 9.94E-04 | 8.55E-04 | 1.40E-04 |
| Gamma BHC (Lindane) | 7 | 100 | 1.27E-04 | - | 5.69E-04 | 1.47E-04 | 2.28E-04 | 5.99E-05 |
| Gamma Chlordane | 7 | 100 | 1.00E-04 | - | 6.68E-04 | 2.11E-04 | 2.86E-04 | 6.90E-05 |
| Heptachlor | 7 | 43 | ND | - | 9.98E-04 | 9.90E-04 | 6.24E-04 | 1.75E-04 |
| Heptachlor epoxide | 7 | 14 | ND | - | 9.98E-04 | 9.94E-04 | 7.28E-04 | 1.72E-04 |
| Hexachlorobenzene | 7 | 29 | ND | - | 1.50E-04 | 1.25E-04 | 1.27E-04 | 5.17E-06 |
| O,P'-DDD | 7 | 100 | 1.77E-03 | - | 7.92E-03 | 3.63E-03 | 3.97E-03 | 7.59E-04 |
| O,P'-DDT | 7 | 100 | 3.95E-03 | - | 1.34E-02 | 5.75E-03 | 7.02E-03 | 1.23E-03 |
| Oxychlordane | 7 | 29 | ND | - | 9.98E-04 | 9.94E-04 | 7.99E-04 | 1.28E-04 |
| Pentachloroanisole | 7 | 100 | 1.63E-04 | - | 7.51E-04 | 3.23E-04 | 3.71E-04 | 7.16E-05 |
| Pentachlorobenzene | 7 | 100 | 1.30E-04 | - | 3.52E-04 | 2.45E-04 | 2.57E-04 | 3.41E-05 |
| Trans-Nonachlor | 7 | 100 | 1.98E-04 | - | 1.49E-03 | 4.83E-04 | 7.45E-04 | 1.79E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Brown Bullhead Offal | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 7 | 100 | 7.53E-04 | - | 2.36E-03 | 9.99E-04 | 1.16E-03 | 2.07E-04 |
| 1,2,4,5-Tetrachlorobenzene | 7 | 86 | ND | - | 2.68E-03 | 8.25E-04 | 1.09E-03 | 3.64E-04 |
| 4,4'-DDD | 7 | 100 | 7.69E-03 | - | 3.34E-02 | 1.02E-02 | 1.38E-02 | 3.37E-03 |
| 4,4'-DDE | 7 | 100 | 1.06E-02 | - | 3.44E-02 | 1.50E-02 | 1.77E-02 | 3.17E-03 |
| 4,4'-DDT | 7 | 100 | 1.50E-04 | - | 9.04E-04 | 2.17E-04 | 3.52E-04 | 1.04E-04 |
| Alpha-BHC | 7 | 71 | ND | - | 9.88E-04 | 1.18E-04 | 3.54E-04 | 1.64E-04 |
| Alpha-Chlordane | 7 | 86 | ND | - | 1.05E-03 | 8.09E-04 | 7.11E-04 | 1.09E-04 |
| Beta-BHC | 7 | 29 | ND | - | 1.00E-03 | 9.88E-04 | 7.19E-04 | 1.76E-04 |
| Chlorpyrifos | 7 | 43 | ND | - | 1.00E-03 | 9.85E-04 | 6.18E-04 | 1.77E-04 |
| Cis-Nonachlor | 7 | 14 | ND | - | 1.01E-02 | 9.90E-04 | 2.30E-03 | 1.30E-03 |
| Delta-BHC | 7 | 100 | 6.80E-05 | - | 8.63E-04 | 2.79E-04 | 3.69E-04 | 9.73E-05 |
| Dieldrin | 7 | 100 | 1.98E-04 | - | 8.08E-04 | 3.19E-04 | 3.98E-04 | 8.67E-05 |
| Endosulfan II | 7 | 29 | ND | - | 4.32E-03 | 9.98E-04 | 1.50E-03 | 4.71E-04 |
| Endrin | 7 | 14 | ND | - | 1.00E-03 | 9.90E-04 | 8.76E-04 | 1.15E-04 |
| Gamma BHC (Lindane) | 7 | 100 | 1.58E-04 | - | 7.06E-04 | 2.46E-04 | 3.00E-04 | 7.16E-05 |
| Gamma Chlordane | 7 | 100 | 1.09E-04 | - | 8.66E-04 | 4.00E-04 | 4.21E-04 | 9.80E-05 |
| Heptachlor | 7 | 43 | ND | - | 1.00E-03 | 9.88E-04 | 6.21E-04 | 1.76E-04 |
| Heptachlor epoxide | 7 | 86 | ND | - | 1.65E-03 | 8.15E-04 | 8.10E-04 | 1.69E-04 |
| Hexachlorobenzene | 7 | 100 | 2.28E-04 | - | 1.21E-03 | 5.75E-04 | 5.79E-04 | 1.17E-04 |
| Mirex | 7 | 14 | ND | - | 1.00E-03 | 9.88E-04 | 8.52E-04 | 1.39E-04 |
| O,P'-DDD | 7 | 100 | 6.26E-03 | - | 1.90E-02 | 8.38E-03 | 1.00E-02 | 1.77E-03 |
| O,P'-DDT | 7 | 100 | 1.30E-02 | - | 3.43E-02 | 1.61E-02 | 1.80E-02 | 2.78E-03 |
| Oxychlordane | 7 | 43 | ND | - | 9.98E-04 | 9.85E-04 | 7.65E-04 | 1.43E-04 |
| Pentachloroanisole | 7 | 100 | 5.58E-04 | - | 1.36E-03 | 6.48E-04 | 7.54E-04 | 1.09E-04 |
| Pentachlorobenzene | 7 | 100 | 1.09E-04 | - | 8.41E-04 | 3.48E-04 | 3.85E-04 | 9.54E-05 |
| Trans-Nonachlor | 7 | 100 | 7.49E-04 | - | 2.48E-03 | 1.34E-03 | 1.36E-03 | 2.32E-04 |

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Common Carp Whole Fish | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 8 | 100 | 4.21E-02 | - | 2.57E-01 | 1.19E-01 | 1.36E-01 | 2.65E-02 |
| 1,2,4,5-Tetrachlorobenzene | 8 | 100 | 8.54E-03 | - | 4.48E-02 | 2.21E-02 | 2.44E-02 | 4.61E-03 |
| 4,4'-DDD | 8 | 100 | 2.67E-02 | - | 1.34E-01 | 8.23E-02 | 8.06E-02 | 1.15E-02 |
| 4,4'-DDE | 8 | 100 | 9.72E-02 | - | 3.17E-01 | 2.05E-01 | 2.02E-01 | 2.47E-02 |
| 4,4'-DDT | 8 | 100 | 5.81E-03 | - | 2.40E-02 | 9.49E-03 | 1.22E-02 | 2.13E-03 |
| Aldrin | 8 | 25 | ND | - | 4.83E-03 | 9.84E-04 | 1.61E-03 | 4.86E-04 |
| Alpha-BHC | 8 | 100 | 2.33E-04 | - | 1.72E-03 | 5.10E-04 | 7.17E-04 | 1.81E-04 |
| Alpha-Chlordane | 8 | 100 | 3.28E-03 | - | 2.13E-02 | 1.29E-02 | 1.20E-02 | 2.13E-03 |
| Beta-BHC | 8 | 75 | ND | - | 1.27E-03 | 7.83E-04 | 7.24E-04 | 1.33E-04 |
| Chlorpyrifos | 8 | 100 | 8.10E-05 | - | 1.45E-03 | 2.91E-04 | 4.39E-04 | 1.57E-04 |
| Cis-Nonachlor | 8 | 100 | 2.16E-02 | - | 3.99E-01 | 2.37E-01 | 2.27E-01 | 4.25E-02 |
| Delta-BHC | 8 | 50 | ND | - | 1.89E-02 | 4.50E-03 | 7.43E-03 | 2.75E-03 |
| Dieldrin | 8 | 100 | 1.94E-03 | - | 3.03E-02 | 1.04E-02 | 1.35E-02 | 3.41E-03 |
| Endosulfan II | 8 | 100 | 5.69E-03 | - | 7.78E-02 | 2.54E-02 | 3.25E-02 | 7.95E-03 |
| Endrin | 8 | 100 | 1.54E-03 | - | 8.74E-03 | 5.67E-03 | 5.83E-03 | 9.39E-04 |
| Gamma BHC (Lindane) | 8 | 100 | 2.82E-04 | - | 2.61E-03 | 1.13E-03 | 1.28E-03 | 2.82E-04 |
| Gamma Chlordane | 8 | 100 | 2.94E-03 | - | 1.35E-02 | 8.20E-03 | 8.20E-03 | 1.24E-03 |
| Heptachlor Epoxide | 8 | 100 | 3.42E-03 | - | 1.73E-02 | 7.86E-03 | 8.71E-03 | 1.81E-03 |
| Hexachlorobenzene | 8 | 100 | 4.49E-03 | - | 1.74E-02 | 9.04E-03 | 1.02E-02 | 1.53E-03 |
| Mirex | 8 | 50 | ND | - | 1.15E-03 | 9.38E-04 | 8.33E-04 | 1.17E-04 |
| O,P'-DDD | 8 | 100 | 8.10E-02 | - | 5.37E-01 | 3.80E-01 | 3.56E-01 | 5.96E-02 |
| O,P'-DDE | 8 | 100 | 5.47E-03 | - | 2.51E-02 | 1.88E-02 | 1.72E-02 | 2.29E-03 |
| O,P'-DDT | 8 | 100 | 3.52E-02 | - | 6.80E-01 | 3.35E-01 | 3.38E-01 | 6.73E-02 |
| Oxychlordane | 8 | 100 | 1.95E-03 | - | 3.84E-02 | 7.94E-03 | 1.34E-02 | 4.83E-03 |
| Pentachloroanisole | 8 | 100 | 8.53E-04 | - | 2.11E-03 | 1.34E-03 | 1.41E-03 | 1.57E-04 |
| Pentachlorobenzene | 8 | 100 | 3.11E-02 | - | 1.43E-01 | 7.01E-02 | 7.53E-02 | 1.32E-02 |
| Trans-Nonachlor | 8 | 100 | 3.60E-03 | - | 1.81E-02 | 1.11E-02 | 1.10E-02 | 1.61E-03 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| | Fallfish Whole Fish Composite | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 5 | 100 | 3.22E-02 | - 3.62E-01 | 2.20E-01 | 1.96E-01 | 7.06E-02 |
| 1,2,4,5-Tetrachlorobenzene | 5 | 100 | 7.33E-03 | - 6.93E-02 | 3.84E-02 | 3.69E-02 | 1.29E-02 |
| 4,4'-DDD | 5 | 100 | 1.21E-02 | - 4.97E-02 | 2.12E-02 | 2.68E-02 | 7.36E-03 |
| 4,4'-DDE | 5 | 100 | 1.94E-02 | - 6.23E-02 | 3.32E-02 | 3.87E-02 | 8.94E-03 |
| Alpha-BHC | 5 | 100 | 7.00E-05 | - 3.38E-04 | 1.71E-04 | 2.00E-04 | 5.92E-05 |
| Chlorpyrifos | 5 | 60 | ND | - 3.12E-04 | 2.33E-04 | 2.20E-04 | 4.25E-05 |
| Cis-Nonachlor | 5 | 100 | 3.64E-02 | - 8.66E-02 | 5.85E-02 | 5.81E-02 | 9.55E-03 |
| Dieldrin | 5 | 100 | 1.04E-03 | - 2.57E-03 | 1.43E-03 | 1.71E-03 | 3.10E-04 |
| Endosulfan II | 5 | 100 | 9.25E-03 | - 1.73E-02 | 1.30E-02 | 1.27E-02 | 1.35E-03 |
| Endrin | 5 | 40 | ND | - 1.20E-03 | 9.45E-04 | 8.24E-04 | 1.40E-04 |
| Gamma BHC (Lindane) | 5 | 100 | 4.50E-05 | - 1.34E-04 | 7.90E-05 | 8.62E-05 | 1.47E-05 |
| Gamma Chlordane | 5 | 100 | 3.07E-04 | - 1.40E-03 | 1.24E-03 | 9.90E-04 | 2.20E-04 |
| Heptachlor | 5 | 40 | ND | - 1.20E-03 | 9.45E-04 | 6.92E-04 | 2.20E-04 |
| Heptachlor Epoxide | 5 | 100 | 3.16E-04 | - 6.31E-03 | 7.26E-04 | 2.79E-03 | 1.37E-03 |
| Hexachlorobenzene | 5 | 100 | 2.21E-03 | - 1.12E-02 | 5.43E-03 | 6.39E-03 | 1.91E-03 |
| Mirex | 5 | 60 | ND | - 9.96E-04 | 3.56E-04 | 5.76E-04 | 1.69E-04 |
| O,P'-DDD | 5 | 100 | 2.15E-02 | - 6.13E-02 | 2.70E-02 | 3.85E-02 | 9.12E-03 |
| O,P'-DDE | 5 | 60 | ND | - 9.96E-04 | 5.79E-04 | 5.55E-04 | 1.96E-04 |
| O,P'-DDT | 5 | 100 | 6.95E-02 | - 1.26E-01 | 1.11E-01 | 9.91E-02 | 1.12E-02 |
| Pentachloroanisole | 5 | 100 | 3.35E-04 | - 3.58E-03 | 1.91E-03 | 1.98E-03 | 7.08E-04 |
| Pentachlorobenzene | 5 | 100 | 1.73E-02 | - 2.20E-01 | 1.06E-01 | 1.13E-01 | 4.18E-02 |
| Trans-Nonachlor | 5 | 100 | 1.03E-03 | - 3.35E-03 | 1.53E-03 | 2.04E-03 | 5.16E-04 |

| | Golden Shiner Whole Fish Composite | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 5 | 100 | 7.14E-03 | - 1.06E-01 | 6.30E-02 | 5.58E-02 | 1.74E-02 |
| 1,2,4,5-Tetrachlorobenzene | 5 | 100 | 1.92E-03 | - 1.64E-02 | 1.35E-02 | 1.10E-02 | 2.82E-03 |
| 4,4'-DDD | 5 | 80 | ND | - 2.03E-02 | 1.02E-02 | 1.06E-02 | 4.05E-03 |
| 4,4'-DDE | 5 | 80 | ND | - 4.02E-02 | 1.35E-02 | 1.84E-02 | 7.76E-03 |
| 4,4'-DDT | 5 | 40 | ND | - 2.50E-03 | 9.80E-04 | 1.34E-03 | 3.15E-04 |
| Aldrin | 5 | 20 | ND | - 1.25E-03 | 9.85E-04 | 1.05E-03 | 5.27E-05 |
| Alpha-BHC | 5 | 60 | ND | - 2.50E-03 | 3.08E-04 | 8.49E-04 | 4.35E-04 |
| Beta-BHC | 5 | 60 | ND | - 1.25E-03 | 5.49E-04 | 5.77E-04 | 2.40E-04 |
| Chlorpyrifos | 5 | 60 | ND | - 2.50E-03 | 2.88E-04 | 8.28E-04 | 4.42E-04 |
| Cis-Nonachlor | 5 | 80 | ND | - 3.52E-02 | 2.25E-02 | 1.95E-02 | 6.81E-03 |
| Dieldrin | 5 | 100 | 6.12E-04 | - 3.71E-03 | 1.72E-03 | 1.84E-03 | 5.81E-04 |
| Endosulfan II | 5 | 40 | ND | - 1.10E-02 | 2.50E-03 | 3.95E-03 | 1.86E-03 |
| Endrin | 5 | 20 | ND | - 1.25E-03 | 9.80E-04 | 9.60E-04 | 1.01E-04 |
| Gamma BHC (Lindane) | 5 | 100 | 6.50E-05 | - 1.29E-03 | 5.34E-04 | 5.61E-04 | 2.07E-04 |
| Gamma Chlordane | 5 | 100 | 2.47E-04 | - 3.24E-03 | 1.44E-03 | 1.61E-03 | 4.99E-04 |
| Hexachlorobenzene | 5 | 100 | 5.75E-04 | - 4.15E-03 | 3.45E-03 | 2.83E-03 | 6.83E-04 |
| O,P'-DDD | 5 | 100 | 1.01E-02 | - 1.08E-01 | 4.25E-02 | 4.80E-02 | 1.62E-02 |
| O,P'-DDT | 5 | 100 | 9.86E-03 | - 8.25E-02 | 5.32E-02 | 4.69E-02 | 1.26E-02 |
| Oxychlordane | 5 | 40 | ND | - 8.37E-03 | 2.50E-03 | 3.48E-03 | 1.39E-03 |
| Pentachloroanisole | 5 | 80 | ND | - 2.25E-03 | 1.34E-03 | 1.35E-03 | 3.52E-04 |
| Pentachlorobenzene | 5 | 80 | ND | - 3.91E-02 | 1.25E-02 | 1.77E-02 | 7.77E-03 |
| Trans-Nonachlor | 5 | 100 | 4.93E-04 | - 2.64E-03 | 2.01E-03 | 1.89E-03 | 3.73E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Golden Shiner Whole Fish Composite | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 5 | 100 | 3.56E-02 | - | 5.15E-02 | 3.94E-02 | 4.14E-02 | 2.94E-03 |
| 1,2,4,5-Tetrachlorobenzene | 5 | 100 | 1.08E-02 | - | 1.74E-02 | 1.46E-02 | 1.38E-02 | 1.22E-03 |
| 4,4'-DDD | 5 | 100 | 1.33E-02 | - | 2.14E-02 | 1.63E-02 | 1.69E-02 | 1.31E-03 |
| 4,4'-DDE | 5 | 100 | 3.97E-02 | - | 6.33E-02 | 4.82E-02 | 5.00E-02 | 3.88E-03 |
| 4,4'-DDT | 5 | 100 | 1.85E-04 | - | 3.34E-04 | 2.70E-04 | 2.63E-04 | 2.58E-05 |
| Alpha-BHC | 5 | 100 | 8.80E-05 | - | 1.71E-04 | 1.54E-04 | 1.38E-04 | 1.53E-05 |
| Alpha-Chlordane | 5 | 80 | ND | - | 2.23E-03 | 1.62E-03 | 1.56E-03 | 2.63E-04 |
| Beta-BHC | 5 | 60 | ND | - | 1.23E-03 | 2.94E-04 | 5.60E-04 | 2.31E-04 |
| Chlorpyrifos | 5 | 40 | ND | - | 1.23E-03 | 9.64E-04 | 7.20E-04 | 2.14E-04 |
| Cis-Nonachlor | 5 | 100 | 3.54E-02 | - | 4.08E-02 | 3.98E-02 | 3.90E-02 | 9.35E-04 |
| Dieldrin | 5 | 100 | 8.95E-04 | - | 2.48E-03 | 1.95E-03 | 1.85E-03 | 2.71E-04 |
| Endosulfan II | 5 | 100 | 1.46E-02 | - | 2.33E-02 | 1.80E-02 | 1.83E-02 | 1.46E-03 |
| Endrin | 5 | 80 | ND | - | 1.23E-03 | 3.67E-04 | 4.95E-04 | 1.92E-04 |
| Gamma BHC (Lindane) | 5 | 100 | 3.86E-04 | - | 6.55E-04 | 5.50E-04 | 5.21E-04 | 4.54E-05 |
| Gamma Chlordane | 5 | 100 | 8.44E-04 | - | 1.50E-03 | 1.21E-03 | 1.24E-03 | 1.16E-04 |
| Heptachlor | 5 | 40 | ND | - | 9.90E-04 | 9.64E-04 | 6.80E-04 | 1.85E-04 |
| Heptachlor Epoxide | 5 | 100 | 6.46E-03 | - | 8.51E-03 | 7.62E-03 | 7.50E-03 | 3.49E-04 |
| Hexachlorobenzene | 5 | 100 | 1.71E-03 | - | 2.69E-03 | 2.40E-03 | 2.20E-03 | 1.94E-04 |
| O,P'-DDD | 5 | 100 | 6.16E-02 | - | 1.15E-01 | 6.78E-02 | 7.65E-02 | 9.75E-03 |
| O,P'-DDT | 5 | 100 | 5.23E-02 | - | 7.73E-02 | 5.95E-02 | 6.14E-02 | 4.29E-03 |
| Pentachloroanisole | 5 | 100 | 8.61E-04 | - | 2.42E-03 | 1.80E-03 | 1.68E-03 | 2.81E-04 |
| Pentachlorobenzene | 5 | 100 | 1.61E-02 | - | 2.77E-02 | 2.08E-02 | 2.12E-02 | 1.95E-03 |
| Trans-Nonachlor | 5 | 100 | 1.32E-03 | - | 3.30E-03 | 2.16E-03 | 2.27E-03 | 3.17E-04 |

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Goldfish Whole Fish | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 18 | 100 | 2.91E-02 | - | 1.18E+00 | 2.34E-01 | 3.08E-01 | 7.00E-02 |
| 1,2,4,5-Tetrachlorobenzene | 18 | 94 | ND | - | 2.84E-01 | 3.69E-02 | 5.80E-02 | 1.54E-02 |
| 4,4'-DDD | 18 | 100 | 5.15E-03 | - | 1.64E+00 | 3.61E-02 | 1.36E-01 | 8.94E-02 |
| 4,4'-DDE | 18 | 100 | 1.46E-02 | - | 6.47E-01 | 6.65E-02 | 1.44E-01 | 4.33E-02 |
| 4,4'-DDT | 18 | 22 | ND | - | 3.09E-02 | 9.65E-04 | 3.18E-03 | 1.70E-03 |
| Aldrin | 18 | 6 | ND | - | 1.98E-03 | 9.58E-04 | 1.02E-03 | 5.70E-05 |
| Alpha-BHC | 18 | 44 | ND | - | 1.00E-03 | 9.48E-04 | 7.41E-04 | 7.91E-05 |
| Alpha-Chlordane | 18 | 11 | ND | - | 4.73E-03 | 9.63E-04 | 1.36E-03 | 2.75E-04 |
| Beta-BHC | 18 | 39 | ND | - | 2.80E-03 | 9.48E-04 | 9.40E-04 | 1.55E-04 |
| Chlorpyrifos | 18 | 44 | ND | - | 7.88E-03 | 9.68E-04 | 1.57E-03 | 4.28E-04 |
| Cis-Nonachlor | 18 | 100 | 4.33E-02 | - | 1.16E+00 | 3.59E-01 | 3.81E-01 | 7.15E-02 |
| Delta-BHC | 18 | 11 | ND | - | 1.01E-02 | 9.58E-04 | 1.40E-03 | 5.16E-04 |
| Dieldrin | 18 | 94 | ND | - | 1.37E-02 | 4.86E-03 | 5.44E-03 | 7.79E-04 |
| Endosulfan II | 18 | 28 | ND | - | 2.44E-01 | 9.75E-04 | 2.92E-02 | 1.61E-02 |
| Endrin | 18 | 11 | ND | - | 3.24E-02 | 9.65E-04 | 2.76E-03 | 1.75E-03 |
| Gamma BHC (Lindane) | 18 | 100 | 4.09E-04 | - | 6.23E-03 | 1.80E-03 | 2.69E-03 | 4.90E-04 |
| Gamma Chlordane | 18 | 100 | 1.83E-03 | - | 2.35E-02 | 5.85E-03 | 7.72E-03 | 1.25E-03 |
| Heptachlor | 18 | 6 | ND | - | 2.71E-03 | 9.65E-04 | 1.06E-03 | 9.72E-05 |
| Heptachlor Epoxide | 18 | 72 | ND | - | 8.09E-03 | 2.93E-03 | 3.58E-03 | 5.75E-04 |
| Hexachlorobenzene | 18 | 100 | 2.60E-03 | - | 2.18E-02 | 6.60E-03 | 8.01E-03 | 1.18E-03 |
| Mirex | 18 | 17 | ND | - | 4.59E-03 | 9.65E-04 | 1.26E-03 | 2.12E-04 |
| O,P'-DDD | 18 | 100 | 4.57E-02 | - | 1.09E+00 | 4.31E-01 | 4.54E-01 | 8.05E-02 |
| O,P'-DDE | 18 | 56 | ND | - | 7.67E-03 | 1.26E-03 | 1.83E-03 | 3.77E-04 |
| O,P'-DDT | 18 | 100 | 7.68E-02 | - | 1.19E+00 | 5.46E-01 | 6.09E-01 | 8.15E-02 |
| Oxychlordane | 18 | 83 | ND | - | 6.33E-02 | 1.18E-02 | 1.67E-02 | 3.97E-03 |
| Pentachloroanisole | 18 | 94 | ND | - | 6.43E-03 | 2.22E-03 | 2.55E-03 | 3.66E-04 |
| Pentachlorobenzene | 18 | 100 | 1.54E-02 | - | 4.21E-01 | 8.98E-02 | 1.21E-01 | 2.45E-02 |
| Trans-Nonachlor | 18 | 89 | ND | - | 1.10E-01 | 7.81E-03 | 1.51E-02 | 5.85E-03 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Goldfish Whole Fish | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 23 | 74 | ND | - | 4.57E-01 | 6.88E-02 | 1.15E-01 | 2.82E-02 |
| 1,2,4,5-Tetrachlorobenzene | 23 | 100 | 3.67E-03 | - | 2.27E-01 | 2.61E-02 | 4.09E-02 | 1.02E-02 |
| 4,4'-DDD | 23 | 100 | 8.04E-03 | - | 3.86E-01 | 1.27E-01 | 1.46E-01 | 2.10E-02 |
| 4,4'-DDE | 23 | 100 | 2.66E-02 | - | 1.20E+00 | 4.02E-01 | 4.17E-01 | 7.00E-02 |
| 4,4'-DDT | 23 | 4 | ND | - | 1.65E-03 | 9.73E-04 | 9.80E-04 | 5.87E-05 |
| Aldrin | 23 | 9 | ND | - | 2.35E-02 | 9.73E-04 | 2.00E-03 | 9.77E-04 |
| Alpha-BHC | 23 | 35 | ND | - | 1.65E-03 | 9.49E-04 | 8.14E-04 | 9.40E-05 |
| Alpha-Chlordane | 23 | 9 | ND | - | 2.43E-02 | 9.73E-04 | 2.20E-03 | 1.02E-03 |
| Beta-BHC | 23 | 65 | ND | - | 7.14E-03 | 1.00E-03 | 2.16E-03 | 4.00E-04 |
| Chlorpyrifos | 23 | 35 | ND | - | 4.68E-03 | 9.73E-04 | 1.34E-03 | 2.31E-04 |
| Cis-Nonachlor | 23 | 87 | ND | - | 9.71E-01 | 2.98E-01 | 3.48E-01 | 5.08E-02 |
| Delta-BHC | 23 | 39 | ND | - | 1.95E-02 | 9.90E-04 | 5.01E-03 | 1.29E-03 |
| Dieldrin | 23 | 96 | ND | - | 3.35E-01 | 1.01E-02 | 7.73E-02 | 2.22E-02 |
| Endosulfan II | 23 | 61 | ND | - | 1.34E-01 | 6.06E-02 | 5.58E-02 | 1.04E-02 |
| Endrin | 23 | 17 | ND | - | 1.69E-03 | 9.73E-04 | 1.02E-03 | 6.75E-05 |
| Gamma BHC (Lindane) | 23 | 87 | ND | - | 6.41E-03 | 2.02E-03 | 2.36E-03 | 3.52E-04 |
| Gamma Chlordane | 23 | 83 | ND | - | 9.42E-02 | 5.89E-03 | 1.55E-02 | 5.15E-03 |
| Heptachlor | 23 | 26 | ND | - | 3.69E-02 | 9.81E-04 | 8.38E-03 | 2.70E-03 |
| Heptachlor Epoxide | 23 | 83 | ND | - | 4.45E-02 | 1.13E-02 | 1.45E-02 | 2.84E-03 |
| Hexachlorobenzene | 23 | 87 | ND | - | 2.63E-02 | 5.96E-03 | 6.70E-03 | 1.16E-03 |
| Mirex | 23 | 4 | ND | - | 1.65E-03 | 9.73E-04 | 9.79E-04 | 5.92E-05 |
| O,P'-DDD | 23 | 100 | 3.77E-02 | - | 1.46E+00 | 4.83E-01 | 5.49E-01 | 6.57E-02 |
| O,P'-DDE | 23 | 61 | ND | - | 6.44E-02 | 2.69E-03 | 1.77E-02 | 4.61E-03 |
| O,P'-DDT | 23 | 100 | 4.79E-02 | - | 1.42E+00 | 6.15E-01 | 6.91E-01 | 7.18E-02 |
| Oxychlordane | 23 | 26 | ND | - | 3.39E-02 | 9.90E-04 | 6.54E-03 | 2.08E-03 |
| Pentachloroanisole | 23 | 96 | ND | - | 1.13E-02 | 2.45E-03 | 3.19E-03 | 5.55E-04 |
| Pentachlorobenzene | 23 | 74 | ND | - | 3.12E-01 | 3.30E-02 | 6.60E-02 | 1.83E-02 |
| Toxaphene | 23 | 4 | ND | - | 3.26E-02 | 9.75E-03 | 1.09E-02 | 1.03E-03 |
| Trans-Nonachlor | 23 | 96 | ND | - | 1.26E-01 | 1.25E-02 | 2.75E-02 | 6.70E-03 |

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Goldfish Whole Fish | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 8.64E-02 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.86E-02 | -- |
| 4,4'-DDD | 1 | 100 | -- | - | -- | -- | 9.49E-02 | -- |
| 4,4'-DDE | 1 | 100 | -- | - | -- | -- | 1.70E-01 | -- |
| 4,4'-DDT | 1 | 100 | -- | - | -- | -- | 5.40E-03 | -- |
| Alpha-BHC | 1 | 100 | -- | - | -- | -- | 4.43E-04 | -- |
| Alpha-Chlordane | 1 | 100 | -- | - | -- | -- | 7.91E-03 | -- |
| Beta-BHC | 1 | 100 | -- | - | -- | -- | 2.24E-04 | -- |
| Chlorpyrifos | 1 | 100 | -- | - | -- | -- | 2.33E-04 | -- |
| Cis-Nonachlor | 1 | 100 | -- | - | -- | -- | 2.23E-01 | -- |
| Dieldrin | 1 | 100 | -- | - | -- | -- | 9.93E-03 | -- |
| Endosulfan II | 1 | 100 | -- | - | -- | -- | 2.23E-02 | -- |
| Endrin | 1 | 100 | -- | - | -- | -- | 3.32E-03 | -- |
| Gamma BHC (Lindane) | 1 | 100 | -- | - | -- | -- | 5.05E-04 | -- |
| Gamma Chlordane | 1 | 100 | -- | - | -- | -- | 5.10E-03 | -- |
| Heptachlor Epoxide | 1 | 100 | -- | - | -- | -- | 3.18E-03 | -- |
| Hexachlorobenzene | 1 | 100 | -- | - | -- | -- | 8.84E-03 | -- |
| Mirex | 1 | 100 | -- | - | -- | -- | 4.29E-04 | -- |
| O,P'-DDD | 1 | 100 | -- | - | -- | -- | 2.62E-01 | -- |
| O,P'-DDE | 1 | 100 | -- | - | -- | -- | 1.77E-02 | -- |
| O,P'-DDT | 1 | 100 | -- | - | -- | -- | 3.05E-01 | -- |
| Oxychlordane | 1 | 100 | -- | - | -- | -- | 1.45E-02 | -- |
| Pentachloroanisole | 1 | 100 | -- | - | -- | -- | 1.53E-03 | -- |
| Pentachlorobenzene | 1 | 100 | -- | - | -- | -- | 5.29E-02 | -- |
| Trans-Nonachlor | 1 | 100 | -- | - | -- | -- | 1.30E-02 | -- |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Largemouth Bass Skin-off Fillet** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 11 | 64 | ND | - | 8.01E-04 | 2.32E-04 | 3.14E-04 | 6.14E-05 |
| 1,2,4,5-Tetrachlorobenzene | 11 | 45 | ND | - | 2.07E-03 | 4.49E-04 | 6.77E-04 | 1.77E-04 |
| 4,4'-DDD | 11 | 82 | ND | - | 3.75E-03 | 1.49E-03 | 1.69E-03 | 2.47E-04 |
| 4,4'-DDE | 11 | 100 | 6.20E-03 | - | 2.62E-02 | 1.15E-02 | 1.30E-02 | 1.97E-03 |
| 4,4'-DDT | 11 | 82 | ND | - | 9.95E-04 | 2.91E-04 | 4.10E-04 | 8.85E-05 |
| Alpha-BHC | 11 | 64 | ND | - | 9.98E-04 | 1.53E-04 | 4.26E-04 | 1.35E-04 |
| Alpha-Chlordane | 11 | 9 | ND | - | 9.95E-04 | 9.80E-04 | 9.20E-04 | 5.79E-05 |
| Beta-BHC | 11 | 73 | ND | - | 9.95E-04 | 1.15E-04 | 3.30E-04 | 1.28E-04 |
| Chlorpyrifos | 11 | 18 | ND | - | 9.98E-04 | 9.80E-04 | 8.05E-04 | 1.17E-04 |
| Cis-Nonachlor | 11 | 100 | 2.69E-03 | - | 7.78E-03 | 5.03E-03 | 5.31E-03 | 5.21E-04 |
| Dieldrin | 11 | 100 | 2.50E-05 | - | 4.21E-04 | 1.69E-04 | 2.13E-04 | 3.87E-05 |
| Endosulfan II | 11 | 82 | ND | - | 3.87E-03 | 1.21E-03 | 1.53E-03 | 2.86E-04 |
| Endrin | 11 | 9 | ND | - | 9.98E-04 | 9.85E-04 | 8.93E-04 | 8.83E-05 |
| Gamma BHC (Lindane) | 11 | 100 | 6.60E-05 | - | 2.37E-04 | 8.80E-05 | 1.01E-04 | 1.44E-05 |
| Gamma Chlordane | 11 | 45 | ND | - | 9.95E-04 | 9.40E-04 | 5.89E-04 | 1.34E-04 |
| Heptachlor | 11 | 18 | ND | - | 9.98E-04 | 9.80E-04 | 8.13E-04 | 1.12E-04 |
| Heptachlor epoxide | 11 | 73 | ND | - | 1.38E-03 | 9.98E-04 | 9.03E-04 | 1.26E-04 |
| Hexachlorobenzene | 11 | 27 | ND | - | 1.87E-04 | 1.39E-04 | 1.33E-04 | 1.24E-05 |
| Mirex | 11 | 45 | ND | - | 9.98E-04 | 9.70E-04 | 5.52E-04 | 1.52E-04 |
| O,P'-DDD | 11 | 100 | 6.11E-03 | - | 2.14E-02 | 1.24E-02 | 1.36E-02 | 1.45E-03 |
| O,P'-DDT | 11 | 100 | 5.76E-03 | - | 2.25E-02 | 1.31E-02 | 1.39E-02 | 1.60E-03 |
| Oxychlordane | 11 | 91 | ND | - | 1.19E-03 | 7.24E-04 | 7.16E-04 | 7.44E-05 |
| Pentachloroanisole | 11 | 9 | ND | - | 5.50E-05 | 3.25E-05 | 3.30E-05 | 3.38E-06 |
| Pentachlorobenzene | 11 | 91 | ND | - | 9.98E-04 | 1.63E-04 | 2.30E-04 | 7.76E-05 |
| Trans-Nonachlor | 11 | 100 | 6.32E-04 | - | 1.35E-03 | 9.01E-04 | 9.19E-04 | 5.69E-05 |
| **Largemouth Bass Offal** | | | | | | | | |
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Range Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 11 | 100 | 2.90E-04 | - | 3.79E-03 | 2.26E-03 | 2.33E-03 | 3.36E-04 |
| 1,2,4,5-Tetrachlorobenzene | 11 | 64 | ND | - | 4.63E-03 | 2.09E-03 | 1.93E-03 | 3.83E-04 |
| 4,4'-DDD | 11 | 100 | 8.10E-04 | - | 6.77E-02 | 2.51E-02 | 3.10E-02 | 5.43E-03 |
| 4,4'-DDE | 11 | 100 | 4.07E-03 | - | 3.36E-01 | 1.63E-01 | 1.68E-01 | 2.62E-02 |
| 4,4'-DDT | 11 | 64 | ND | - | 2.11E-02 | 4.83E-03 | 6.80E-03 | 1.97E-03 |
| Alpha-BHC | 11 | 73 | ND | - | 9.95E-04 | 2.70E-04 | 4.12E-04 | 1.12E-04 |
| Alpha-Chlordane | 11 | 9 | ND | - | 9.95E-04 | 9.60E-04 | 9.13E-04 | 5.33E-05 |
| Beta-BHC | 11 | 64 | ND | - | 1.85E-03 | 1.37E-04 | 5.54E-04 | 1.83E-04 |
| Chlorpyrifos | 11 | 64 | ND | - | 1.07E-03 | 9.80E-04 | 7.79E-04 | 1.04E-04 |
| Cis-Nonachlor | 11 | 91 | ND | - | 1.12E-01 | 5.52E-02 | 5.40E-02 | 1.08E-02 |
| Delta-BHC | 11 | 9 | ND | - | 2.91E-03 | 9.80E-04 | 1.14E-03 | 1.76E-04 |
| Dieldrin | 11 | 91 | ND | - | 1.03E-02 | 4.26E-03 | 4.06E-03 | 7.40E-04 |
| Endosulfan II | 11 | 82 | ND | - | 6.66E-02 | 2.96E-02 | 3.22E-02 | 6.32E-03 |
| Endrin | 11 | 45 | ND | - | 1.64E-03 | 9.80E-04 | 1.03E-03 | 8.64E-05 |
| Gamma BHC (Lindane) | 11 | 100 | 6.30E-05 | - | 1.33E-03 | 5.23E-04 | 6.09E-04 | 1.17E-04 |
| Gamma Chlordane | 11 | 45 | ND | - | 1.32E-03 | 9.55E-04 | 9.46E-04 | 6.86E-05 |
| Heptachlor | 11 | 9 | ND | - | 9.95E-04 | 9.80E-04 | 8.93E-04 | 7.59E-05 |
| Hexachlorobenzene | 11 | 100 | 8.90E-05 | - | 2.10E-03 | 9.99E-04 | 1.00E-03 | 1.72E-04 |
| Mirex | 11 | 27 | ND | - | 2.75E-03 | 9.85E-04 | 1.35E-03 | 2.08E-04 |
| O,P'-DDD | 11 | 100 | 5.32E-03 | - | 3.27E-01 | 1.50E-01 | 1.60E-01 | 2.47E-02 |
| O,P'-DDT | 11 | 100 | 4.20E-03 | - | 3.41E-01 | 1.71E-01 | 1.88E-01 | 2.84E-02 |
| Oxychlordane | 11 | 9 | ND | - | 1.47E-02 | 9.80E-04 | 2.22E-03 | 1.25E-03 |
| Pentachloroanisole | 11 | 91 | ND | - | 8.94E-04 | 2.18E-04 | 3.41E-04 | 8.82E-05 |
| Pentachlorobenzene | 11 | 100 | 1.09E-04 | - | 2.62E-03 | 1.44E-03 | 1.42E-03 | 2.59E-04 |
| Trans-Nonachlor | 11 | 100 | 8.15E-04 | - | 2.99E-02 | 1.08E-02 | 1.27E-02 | 2.34E-03 |

## Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Largemouth Bass Whole Fish** | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 14 | 93 | ND | - | 6.29E-03 | 2.21E-03 | 2.63E-03 | 3.92E-04 |
| 1,2,4,5-Tetrachlorobenzene | 14 | 86 | ND | - | 1.13E-02 | 4.79E-03 | 4.88E-03 | 8.97E-04 |
| 4,4'-DDD | 14 | 100 | 8.23E-03 | - | 5.93E-02 | 1.39E-02 | 1.99E-02 | 3.86E-03 |
| 4,4'-DDE | 14 | 93 | ND | - | 1.77E-01 | 5.74E-02 | 7.26E-02 | 1.16E-02 |
| 4,4'-DDT | 14 | 64 | ND | - | 1.04E-02 | 9.73E-04 | 1.59E-03 | 6.81E-04 |
| Alpha-BHC | 14 | 79 | ND | - | 9.90E-04 | 1.87E-04 | 3.70E-04 | 9.26E-05 |
| Alpha-Chlordane | 14 | 14 | ND | - | 2.85E-03 | 9.70E-04 | 1.09E-03 | 1.36E-04 |
| Beta-BHC | 14 | 93 | ND | - | 1.06E-03 | 4.12E-04 | 4.57E-04 | 9.13E-05 |
| Chlorpyrifos | 14 | 93 | ND | - | 9.16E-04 | 3.17E-04 | 4.01E-04 | 7.55E-05 |
| Cis-Nonachlor | 14 | 93 | ND | - | 6.17E-02 | 2.98E-02 | 3.39E-02 | 4.32E-03 |
| Delta-BHC | 14 | 36 | ND | - | 9.85E-04 | 9.51E-04 | 6.73E-04 | 1.09E-04 |
| Dieldrin | 14 | 86 | ND | - | 3.44E-03 | 1.46E-03 | 1.72E-03 | 2.03E-04 |
| Endosulfan II | 14 | 100 | 7.88E-03 | - | 3.68E-02 | 1.64E-02 | 1.86E-02 | 2.12E-03 |
| Endrin | 14 | 7 | ND | - | 9.90E-04 | 9.71E-04 | 9.36E-04 | 2.72E-05 |
| Gamma BHC (Lindane) | 14 | 100 | 3.27E-04 | - | 1.41E-03 | 7.75E-04 | 7.36E-04 | 9.07E-05 |
| Gamma Chlordane | 14 | 86 | ND | - | 1.43E-03 | 4.73E-04 | 5.91E-04 | 9.58E-05 |
| Heptachlor | 14 | 50 | ND | - | 9.90E-04 | 7.23E-04 | 6.21E-04 | 1.03E-04 |
| Heptachlor epoxide | 14 | 64 | ND | - | 8.14E-03 | 9.80E-04 | 1.72E-03 | 5.24E-04 |
| Hexachlorobenzene | 14 | 86 | ND | - | 8.29E-02 | 7.94E-04 | 6.96E-03 | 5.85E-03 |
| Mirex | 14 | 14 | ND | - | 9.85E-04 | 9.67E-04 | 8.85E-04 | 6.37E-05 |
| O,P'-DDD | 14 | 100 | 4.72E-02 | - | 1.76E-01 | 6.38E-02 | 8.09E-02 | 9.73E-03 |
| O,P'-DDE | 14 | 7 | ND | - | 1.48E-03 | 9.72E-04 | 9.98E-04 | 3.77E-05 |
| O,P'-DDT | 14 | 100 | 4.12E-02 | - | 1.98E-01 | 6.81E-02 | 8.31E-02 | 1.21E-02 |
| Oxychlordane | 14 | 93 | ND | - | 7.13E-03 | 2.72E-03 | 3.01E-03 | 4.61E-04 |
| Pentachloroanisole | 14 | 100 | 1.42E-04 | - | 5.06E-04 | 3.04E-04 | 3.05E-04 | 3.36E-05 |
| Pentachlorobenzene | 14 | 100 | 6.57E-04 | - | 9.63E-03 | 3.18E-03 | 4.06E-03 | 8.53E-04 |
| Toxaphene | 14 | 64 | ND | - | 1.96E-02 | 1.86E-02 | 1.58E-02 | 1.25E-03 |
| Trans-Nonachlor | 14 | 100 | 2.58E-03 | - | 8.99E-03 | 4.39E-03 | 4.88E-03 | 5.22E-04 |
| | **Largemouth Bass Whole Fish Composite** | | | | | | | |
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Maximum** | **Median** | **Arithmetic Mean** | |
| 1,2,3,4-Tetrachlorobenzene | 5 | 100 | 9.13E-04 | - | 3.05E-03 | 2.57E-03 | 2.06E-03 | 4.67E-04 |
| 1,2,4,5-Tetrachlorobenzene | 5 | 80 | ND | - | 7.67E-03 | 2.29E-03 | 3.74E-03 | 1.56E-03 |
| 4,4'-DDD | 5 | 100 | 5.99E-03 | - | 9.30E-03 | 7.02E-03 | 7.53E-03 | 6.90E-04 |
| 4,4'-DDE | 5 | 100 | 3.49E-02 | - | 4.96E-02 | 3.69E-02 | 4.11E-02 | 3.29E-03 |
| 4,4'-DDT | 5 | 40 | ND | - | 1.00E-03 | 9.69E-04 | 7.48E-04 | 1.43E-04 |
| Alpha-BHC | 5 | 100 | 5.80E-05 | - | 5.85E-04 | 1.45E-04 | 2.75E-04 | 1.08E-04 |
| Alpha-Chlordane | 5 | 20 | ND | - | 1.89E-03 | 9.80E-04 | 1.16E-03 | 1.83E-04 |
| Beta-BHC | 5 | 80 | ND | - | 9.69E-04 | 6.30E-05 | 2.75E-04 | 1.77E-04 |
| Chlorpyrifos | 5 | 100 | 1.22E-04 | - | 3.74E-04 | 2.76E-04 | 2.38E-04 | 4.88E-05 |
| Cis-Nonachlor | 5 | 100 | 1.82E-02 | - | 2.68E-02 | 1.89E-02 | 2.13E-02 | 1.73E-03 |
| Dieldrin | 5 | 100 | 6.32E-04 | - | 1.95E-03 | 1.55E-03 | 1.40E-03 | 2.17E-04 |
| Endosulfan II | 5 | 100 | 5.40E-03 | - | 2.11E-02 | 9.84E-03 | 1.08E-02 | 2.77E-03 |
| Gamma BHC (Lindane) | 5 | 100 | 3.37E-04 | - | 1.05E-03 | 7.78E-04 | 6.76E-04 | 1.31E-04 |
| Gamma Chlordane | 5 | 100 | 1.80E-04 | - | 7.78E-04 | 2.90E-04 | 3.57E-04 | 1.09E-04 |
| Heptachlor | 5 | 60 | ND | - | 9.69E-04 | 1.42E-04 | 4.65E-04 | 2.02E-04 |
| Heptachlor epoxide | 5 | 100 | 1.17E-03 | - | 1.98E-03 | 1.43E-03 | 1.54E-03 | 1.72E-04 |
| Hexachlorobenzene | 5 | 60 | ND | - | 4.25E-03 | 4.97E-04 | 1.28E-03 | 7.62E-04 |
| O,P'-DDD | 5 | 100 | 4.14E-02 | - | 5.66E-02 | 4.53E-02 | 4.77E-02 | 3.13E-03 |
| O,P'-DDT | 5 | 100 | 3.41E-02 | - | 5.58E-02 | 4.04E-02 | 4.33E-02 | 4.20E-03 |
| Oxychlordane | 5 | 100 | 1.72E-03 | - | 2.30E-03 | 1.90E-03 | 1.99E-03 | 1.25E-04 |
| Pentachloroanisole | 5 | 100 | 1.82E-04 | - | 2.40E-04 | 2.10E-04 | 2.10E-04 | 1.01E-05 |
| Pentachlorobenzene | 5 | 100 | 4.19E-04 | - | 7.94E-03 | 5.75E-03 | 4.38E-03 | 1.62E-03 |
| Toxaphene | 5 | 60 | ND | - | 2.00E-02 | 1.94E-02 | 1.56E-02 | 2.45E-03 |
| Trans-Nonachlor | 5 | 100 | 2.30E-03 | - | 3.52E-03 | 2.69E-03 | 2.75E-03 | 2.25E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1999**

| | Largemouth Bass Ovary | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 1.73E-02 | - 3.32E-02 | 1.98E-02 | 2.22E-02 | 2.54E-03 |
| 1,2,4,5-Tetrachlorobenzene | 6 | 100 | 3.09E-03 | - 7.69E-03 | 5.17E-03 | 5.28E-03 | 8.22E-04 |
| 4,4'-DDD | 6 | 100 | 4.42E-02 | - 8.42E-02 | 7.57E-02 | 6.86E-02 | 6.48E-03 |
| 4,4'-DDE | 6 | 100 | 1.75E-01 | - 5.44E-01 | 4.28E-01 | 3.99E-01 | 5.60E-02 |
| 4,4'-DDT | 6 | 100 | 2.91E-03 | - 1.34E-02 | 5.48E-03 | 6.48E-03 | 1.52E-03 |
| Alpha-BHC | 6 | 100 | 4.58E-04 | - 7.34E-04 | 5.79E-04 | 5.89E-04 | 4.92E-05 |
| Chlorpyrifos | 6 | 67 | ND | - 4.42E-03 | 5.98E-04 | 1.80E-03 | 8.03E-04 |
| Cis-Nonachlor | 6 | 100 | 1.39E-01 | - 2.56E-01 | 1.88E-01 | 1.89E-01 | 1.76E-02 |
| Dieldrin | 6 | 100 | 9.87E-03 | - 1.92E-02 | 1.25E-02 | 1.34E-02 | 1.46E-03 |
| Endosulfan II | 6 | 100 | 5.82E-02 | - 1.15E-01 | 7.39E-02 | 7.83E-02 | 8.93E-03 |
| Endrin | 6 | 100 | 2.04E-03 | - 4.28E-03 | 3.12E-03 | 3.06E-03 | 3.57E-04 |
| Gamma BHC (Lindane) | 6 | 100 | 2.45E-04 | - 4.17E-04 | 2.86E-04 | 3.02E-04 | 2.70E-05 |
| Gamma Chlordane | 6 | 100 | 3.79E-03 | - 1.27E-02 | 5.11E-03 | 6.18E-03 | 1.35E-03 |
| Hexachlorobenzene | 6 | 100 | 3.50E-03 | - 1.24E-02 | 4.52E-03 | 5.68E-03 | 1.38E-03 |
| Mirex | 6 | 100 | 9.98E-04 | - 1.90E-03 | 1.75E-03 | 1.62E-03 | 1.33E-04 |
| O,P'-DDD | 6 | 100 | 3.87E-01 | - 5.47E-01 | 4.97E-01 | 4.82E-01 | 2.37E-02 |
| O,P'-DDE | 6 | 100 | 1.11E-02 | - 3.25E-02 | 1.87E-02 | 1.93E-02 | 3.30E-03 |
| O,P'-DDT | 6 | 100 | 4.61E-01 | - 7.01E-01 | 5.64E-01 | 5.71E-01 | 3.27E-02 |
| Pentachloroanisole | 6 | 100 | 9.40E-04 | - 1.52E-03 | 1.22E-03 | 1.25E-03 | 8.71E-05 |
| Pentachlorobenzene | 6 | 100 | 1.00E-02 | - 5.45E-02 | 1.53E-02 | 2.12E-02 | 6.78E-03 |
| Trans-Nonachlor | 6 | 100 | 1.78E-02 | - 3.54E-02 | 3.03E-02 | 2.84E-02 | 2.85E-03 |

| | Largemouth Bass Offal | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 1.52E-03 | - 2.50E-02 | 2.78E-03 | 6.28E-03 | 3.74E-03 |
| 1,2,4,5-Tetrachlorobenzene | 6 | 17 | ND | - 4.17E-03 | 6.79E-04 | 1.21E-03 | 5.93E-04 |
| 4,4'-DDD | 6 | 100 | 4.51E-03 | - 6.65E-02 | 1.25E-02 | 1.98E-02 | 9.50E-03 |
| 4,4'-DDE | 6 | 100 | 3.42E-02 | - 2.19E-01 | 5.38E-02 | 8.17E-02 | 2.89E-02 |
| 4,4'-DDT | 6 | 83 | ND | - 2.37E-03 | 1.20E-03 | 1.31E-03 | 2.70E-04 |
| Alpha-BHC | 6 | 17 | ND | - 1.42E-04 | 3.85E-05 | 5.38E-05 | 1.78E-05 |
| Chlorpyrifos | 6 | 100 | 4.80E-04 | - 8.22E-04 | 6.05E-04 | 6.33E-04 | 5.32E-05 |
| Cis-Nonachlor | 6 | 100 | 1.51E-02 | - 2.14E-01 | 3.18E-02 | 5.75E-02 | 3.15E-02 |
| Dieldrin | 6 | 100 | 8.17E-04 | - 1.23E-02 | 1.67E-03 | 3.18E-03 | 1.82E-03 |
| Endosulfan II | 6 | 100 | 3.63E-03 | - 1.30E-01 | 7.53E-03 | 2.81E-02 | 2.05E-02 |
| Gamma BHC (Lindane) | 6 | 67 | ND | - 9.75E-04 | 3.97E-04 | 4.62E-04 | 1.89E-04 |
| Gamma Chlordane | 6 | 100 | 2.21E-04 | - 6.00E-03 | 7.86E-04 | 1.56E-03 | 9.03E-04 |
| Hexachlorobenzene | 6 | 100 | 8.80E-05 | - 7.54E-03 | 4.98E-04 | 1.62E-03 | 1.19E-03 |
| Mirex | 6 | 83 | ND | - 9.23E-04 | 4.86E-04 | 4.93E-04 | 1.10E-04 |
| O,P'-DDD | 6 | 100 | 3.04E-02 | - 4.19E-01 | 8.98E-02 | 1.27E-01 | 5.97E-02 |
| O,P'-DDE | 6 | 100 | 9.01E-04 | - 2.62E-02 | 1.63E-03 | 5.80E-03 | 4.10E-03 |
| O,P'-DDT | 6 | 100 | 3.31E-02 | - 3.53E-01 | 8.93E-02 | 1.20E-01 | 4.83E-02 |
| Pentachloroanisole | 6 | 83 | ND | - 8.49E-04 | 1.90E-04 | 2.76E-04 | 1.17E-04 |
| Pentachlorobenzene | 6 | 50 | ND | - 3.64E-02 | 1.47E-03 | 7.18E-03 | 5.85E-03 |
| Trans-Nonachlor | 6 | 100 | 2.20E-03 | - 2.64E-02 | 5.38E-03 | 8.27E-03 | 3.73E-03 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Largemouth Bass Skin-off Fillet** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 14 | 100 | 2.53E-03 | - | 2.65E-02 | 5.48E-03 | 8.32E-03 | 1.83E-03 |
| 1,2,4,5-Tetrachlorobenzene | 14 | 93 | ND | - | 5.58E-03 | 1.95E-03 | 2.16E-03 | 3.92E-04 |
| 4,4'-DDD | 14 | 100 | 8.06E-04 | - | 6.17E-03 | 2.59E-03 | 2.81E-03 | 4.07E-04 |
| 4,4'-DDE | 14 | 100 | 4.92E-03 | - | 2.63E-02 | 1.16E-02 | 1.26E-02 | 1.63E-03 |
| 4,4'-DDT | 14 | 71 | ND | - | 1.07E-03 | 5.50E-04 | 5.85E-04 | 9.36E-05 |
| Aldrin | 14 | 29 | ND | - | 1.07E-03 | 9.67E-04 | 8.23E-04 | 7.53E-05 |
| Alpha-BHC | 14 | 64 | ND | - | 1.07E-03 | 9.80E-05 | 3.98E-04 | 1.23E-04 |
| Alpha-Chlordane | 14 | 43 | ND | - | 1.32E-03 | 9.71E-04 | 8.87E-04 | 7.23E-05 |
| Beta-BHC | 14 | 21 | ND | - | 9.90E-04 | 9.67E-04 | 6.16E-04 | 1.22E-04 |
| Chlorpyrifos | 14 | 43 | ND | - | 9.96E-04 | 1.03E-04 | 3.42E-04 | 1.14E-04 |
| Cis-Nonachlor | 14 | 100 | 3.61E-03 | - | 2.30E-02 | 9.33E-03 | 1.17E-02 | 1.52E-03 |
| Delta-BHC | 14 | 50 | ND | - | 1.93E-03 | 9.88E-04 | 9.62E-04 | 1.43E-04 |
| Dieldrin | 14 | 86 | ND | - | 1.19E-03 | 6.84E-04 | 7.45E-04 | 7.99E-05 |
| Endosulfan II | 14 | 50 | ND | - | 7.50E-03 | 1.03E-03 | 2.49E-03 | 5.94E-04 |
| Gamma BHC (Lindane) | 14 | 93 | ND | - | 1.96E-04 | 8.45E-05 | 9.41E-05 | 1.25E-05 |
| Gamma Chlordane | 14 | 29 | ND | - | 9.96E-04 | 9.81E-04 | 7.65E-04 | 1.01E-04 |
| Heptachlor | 14 | 36 | ND | - | 1.07E-03 | 9.59E-04 | 6.54E-04 | 1.23E-04 |
| Heptachlor Epoxide | 14 | 57 | ND | - | 1.68E-03 | 8.98E-04 | 7.24E-04 | 1.22E-04 |
| Hexachlorobenzene | 14 | 100 | 1.10E-04 | - | 1.10E-03 | 4.37E-04 | 4.68E-04 | 8.12E-05 |
| Mirex | 14 | 14 | ND | - | 1.07E-03 | 9.84E-04 | 8.60E-04 | 8.72E-05 |
| O,P'-DDD | 14 | 100 | 9.10E-03 | - | 4.12E-02 | 2.16E-02 | 2.15E-02 | 2.48E-03 |
| O,P'-DDE | 14 | 36 | ND | - | 1.29E-03 | 9.75E-04 | 9.75E-04 | 3.36E-05 |
| O,P'-DDT | 14 | 100 | 8.67E-03 | - | 3.46E-02 | 2.21E-02 | 2.17E-02 | 2.01E-03 |
| Oxychlordane | 14 | 71 | ND | - | 2.44E-03 | 1.01E-03 | 1.11E-03 | 1.83E-04 |
| Pentachloroanisole | 14 | 71 | ND | - | 3.11E-04 | 1.44E-04 | 1.24E-04 | 2.30E-05 |
| Pentachlorobenzene | 14 | 100 | 9.22E-04 | - | 1.76E-02 | 2.55E-03 | 4.19E-03 | 1.20E-03 |
| Trans-Nonachlor | 14 | 100 | 2.28E-04 | - | 1.73E-03 | 7.58E-04 | 8.03E-04 | 1.09E-04 |
| **Largemouth Bass Offal** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 14 | 100 | 2.08E-02 | - | 5.25E-01 | 5.85E-02 | 1.12E-01 | 4.03E-02 |
| 1,2,4,5-Tetrachlorobenzene | 14 | 93 | ND | - | 1.20E-01 | 1.51E-02 | 2.61E-02 | 8.76E-03 |
| 4,4'-DDD | 14 | 100 | 1.66E-02 | - | 1.46E-01 | 4.54E-02 | 5.36E-02 | 8.68E-03 |
| 4,4'-DDE | 14 | 100 | 6.82E-02 | - | 5.57E-01 | 2.53E-01 | 2.84E-01 | 4.02E-02 |
| 4,4'-DDT | 14 | 43 | ND | - | 6.00E-02 | 9.90E-04 | 6.80E-03 | 4.16E-03 |
| Alpha-BHC | 14 | 36 | ND | - | 9.98E-04 | 9.65E-04 | 6.41E-04 | 1.25E-04 |
| Alpha-Chlordane | 14 | 7 | ND | - | 1.38E-03 | 9.86E-04 | 1.01E-03 | 2.91E-05 |
| Beta-BHC | 14 | 71 | ND | - | 2.71E-03 | 9.90E-04 | 1.17E-03 | 1.71E-04 |
| Chlorpyrifos | 14 | 57 | ND | - | 1.11E-03 | 9.24E-04 | 6.71E-04 | 1.00E-04 |
| Cis-Nonachlor | 14 | 100 | 3.97E-02 | - | 6.71E-01 | 2.23E-01 | 2.52E-01 | 4.14E-02 |
| Delta-BHC | 14 | 64 | ND | - | 1.13E-02 | 9.85E-04 | 3.41E-03 | 1.24E-03 |
| Dieldrin | 14 | 93 | ND | - | 1.70E-02 | 7.33E-03 | 7.41E-03 | 1.15E-03 |
| Endosulfan II | 14 | 57 | ND | - | 1.37E-01 | 2.24E-02 | 3.27E-02 | 1.05E-02 |
| Endrin | 14 | 29 | ND | - | 1.10E-03 | 9.65E-04 | 8.89E-04 | 5.95E-05 |
| Gamma BHC (Lindane) | 14 | 100 | 4.01E-04 | - | 1.71E-03 | 1.06E-03 | 1.04E-03 | 1.12E-04 |
| Gamma Chlordane | 14 | 43 | ND | - | 1.24E-03 | 9.81E-04 | 9.98E-04 | 3.44E-05 |
| Heptachlor | 14 | 7 | ND | - | 9.98E-04 | 9.84E-04 | 9.26E-04 | 5.14E-05 |
| Heptachlor Epoxide | 14 | 29 | ND | - | 1.85E-02 | 9.90E-04 | 4.43E-03 | 1.61E-03 |
| Hexachlorobenzene | 14 | 100 | 1.11E-03 | - | 1.34E-02 | 3.02E-03 | 4.15E-03 | 1.06E-03 |
| Mirex | 14 | 7 | ND | - | 2.64E-03 | 9.84E-04 | 1.09E-03 | 1.19E-04 |
| O,P'-DDD | 14 | 100 | 1.45E-01 | - | 7.72E-01 | 3.86E-01 | 4.27E-01 | 5.23E-02 |
| O,P'-DDE | 14 | 14 | ND | - | 1.86E-02 | 9.86E-04 | 3.12E-03 | 1.48E-03 |
| O,P'-DDT | 14 | 100 | 1.32E-01 | - | 1.18E+00 | 5.51E-01 | 5.98E-01 | 8.30E-02 |
| Oxychlordane | 14 | 64 | ND | - | 2.92E-02 | 1.78E-03 | 9.79E-03 | 2.95E-03 |
| Pentachloroanisole | 14 | 100 | 2.64E-04 | - | 1.53E-03 | 7.97E-04 | 8.40E-04 | 1.09E-04 |
| Pentachlorobenzene | 14 | 100 | 2.19E-03 | - | 3.63E-01 | 2.69E-02 | 5.71E-02 | 2.53E-02 |
| Trans-Nonachlor | 14 | 100 | 6.17E-03 | - | 2.01E-02 | 9.38E-03 | 1.15E-02 | 1.42E-03 |

## Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Largemouth Bass Whole Fish** | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 11 | 100 | 7.98E-03 | - | 1.82E-01 | 3.72E-02 | 6.05E-02 | 1.70E-02 |
| 1,2,4,5-Tetrachlorobenzene | 11 | 100 | 1.89E-03 | - | 2.90E-02 | 1.05E-02 | 1.29E-02 | 2.86E-03 |
| 4,4'-DDD | 11 | 100 | 6.76E-03 | - | 9.74E-02 | 2.24E-02 | 3.83E-02 | 8.70E-03 |
| 4,4'-DDE | 11 | 100 | 2.21E-02 | - | 1.55E-01 | 9.53E-02 | 1.06E-01 | 1.36E-02 |
| 4,4'-DDT | 11 | 73 | ND | - | 1.07E-02 | 1.00E-03 | 2.95E-03 | 1.08E-03 |
| Alpha-BHC | 11 | 64 | ND | - | 1.63E-03 | 1.03E-04 | 4.71E-04 | 1.68E-04 |
| Alpha-Chlordane | 11 | 64 | ND | - | 8.30E-03 | 1.28E-03 | 2.77E-03 | 7.77E-04 |
| Beta-BHC | 11 | 82 | ND | - | 9.64E-04 | 1.31E-04 | 2.90E-04 | 1.05E-04 |
| Chlorpyrifos | 11 | 82 | ND | - | 1.00E-03 | 3.23E-04 | 4.40E-04 | 9.37E-05 |
| Cis-Nonachlor | 11 | 100 | 1.37E-02 | - | 2.59E-01 | 5.67E-02 | 8.67E-02 | 2.07E-02 |
| Delta-BHC | 11 | 64 | ND | - | 2.29E-02 | 3.97E-03 | 6.49E-03 | 2.29E-03 |
| Dieldrin | 10 | 100 | 4.53E-04 | - | 7.94E-02 | 1.38E-03 | 1.35E-02 | 8.52E-03 |
| Endosulfan II | 11 | 82 | ND | - | 7.31E-02 | 2.01E-02 | 2.43E-02 | 6.24E-03 |
| Endrin | 11 | 45 | ND | - | 1.63E-03 | 9.44E-04 | 8.08E-04 | 1.17E-04 |
| Gamma BHC (Lindane) | 11 | 100 | 1.36E-04 | - | 1.19E-03 | 6.22E-04 | 6.16E-04 | 1.09E-04 |
| Gamma Chlordane | 11 | 82 | ND | - | 2.16E-03 | 1.25E-03 | 1.33E-03 | 1.50E-04 |
| Heptachlor | 11 | 27 | ND | - | 1.63E-03 | 9.66E-04 | 9.23E-04 | 1.40E-04 |
| Heptachlor Epoxide | 11 | 73 | ND | - | 1.86E-02 | 2.09E-03 | 5.61E-03 | 1.80E-03 |
| Hexachlorobenzene | 11 | 100 | 5.72E-04 | - | 9.19E-03 | 2.16E-03 | 3.63E-03 | 9.96E-04 |
| Mirex | 11 | 9 | ND | - | 1.63E-03 | 9.66E-04 | 9.61E-04 | 9.53E-05 |
| O,P'-DDD | 11 | 100 | 3.83E-02 | - | 2.34E-01 | 1.44E-01 | 1.54E-01 | 1.87E-02 |
| O,P'-DDE | 11 | 27 | ND | - | 2.01E-02 | 9.75E-04 | 4.86E-03 | 2.25E-03 |
| O,P'-DDT | 11 | 100 | 3.37E-02 | - | 3.38E-01 | 1.49E-01 | 1.69E-01 | 2.88E-02 |
| Oxychlordane | 11 | 9 | ND | - | 1.63E-03 | 9.75E-04 | 1.04E-03 | 6.02E-05 |
| Pentachloroanisole | 11 | 91 | ND | - | 1.93E-03 | 7.93E-04 | 8.29E-04 | 1.54E-04 |
| Pentachlorobenzene | 11 | 100 | 1.97E-03 | - | 1.38E-01 | 1.09E-02 | 3.63E-02 | 1.46E-02 |
| Trans-Nonachlor | 11 | 100 | 1.22E-03 | - | 8.73E-03 | 3.76E-03 | 4.41E-03 | 6.96E-04 |
| | **Largemouth Bass Whole Fish Composite** | | | | | | | |
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Range Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 5 | 100 | 4.75E-03 | - | 4.45E-02 | 6.66E-03 | 2.09E-02 | 9.18E-03 |
| 1,2,4,5-Tetrachlorobenzene | 5 | 100 | 1.58E-03 | - | 1.58E-02 | 2.66E-03 | 7.26E-03 | 3.09E-03 |
| 4,4'-DDD | 5 | 100 | 5.63E-03 | - | 1.29E-02 | 8.19E-03 | 8.89E-03 | 1.41E-03 |
| 4,4'-DDE | 5 | 100 | 3.00E-02 | - | 7.54E-02 | 4.93E-02 | 5.23E-02 | 8.62E-03 |
| 4,4'-DDT | 5 | 40 | ND | - | 9.90E-04 | 9.60E-04 | 7.41E-04 | 1.43E-04 |
| Aldrin | 5 | 60 | ND | - | 1.00E-03 | 3.82E-04 | 5.52E-04 | 1.75E-04 |
| Alpha-BHC | 5 | 40 | ND | - | 9.90E-04 | 9.60E-04 | 6.23E-04 | 2.15E-04 |
| Beta-BHC | 5 | 80 | ND | - | 1.05E-03 | 1.85E-04 | 4.71E-04 | 2.26E-04 |
| Chlorpyrifos | 5 | 60 | ND | - | 9.90E-04 | 3.13E-04 | 5.15E-04 | 1.96E-04 |
| Cis-Nonachlor | 5 | 100 | 2.03E-02 | - | 6.19E-02 | 3.08E-02 | 3.70E-02 | 7.72E-03 |
| Delta-BHC | 5 | 40 | ND | - | 9.06E-03 | 9.90E-04 | 3.93E-03 | 1.82E-03 |
| Dieldrin | 5 | 100 | 1.64E-03 | - | 2.32E-03 | 1.95E-03 | 1.99E-03 | 1.17E-04 |
| Endosulfan II | 5 | 40 | ND | - | 1.52E-02 | 9.90E-04 | 5.38E-03 | 2.89E-03 |
| Endrin | 5 | 40 | ND | - | 9.90E-04 | 9.38E-04 | 7.48E-04 | 1.62E-04 |
| Gamma BHC (Lindane) | 5 | 100 | 1.26E-04 | - | 8.16E-04 | 2.11E-04 | 4.27E-04 | 1.58E-04 |
| Gamma Chlordane | 5 | 40 | ND | - | 9.90E-04 | 9.60E-04 | 8.75E-04 | 8.38E-05 |
| Heptachlor | 5 | 40 | ND | - | 9.90E-04 | 9.60E-04 | 6.71E-04 | 1.86E-04 |
| Heptachlor Epoxide | 5 | 40 | ND | - | 1.35E-02 | 9.90E-04 | 5.61E-03 | 2.86E-03 |
| Hexachlorobenzene | 5 | 100 | 2.76E-04 | - | 2.10E-03 | 4.01E-04 | 9.13E-04 | 3.72E-04 |
| O,P'-DDD | 5 | 100 | 4.30E-02 | - | 1.25E-01 | 5.94E-02 | 7.67E-02 | 1.63E-02 |
| O,P'-DDT | 5 | 100 | 6.44E-03 | - | 5.90E-02 | 4.15E-02 | 3.32E-02 | 1.06E-02 |
| Pentachloroanisole | 5 | 40 | ND | - | 9.97E-04 | 9.45E-05 | 4.40E-04 | 2.18E-04 |
| Pentachlorobenzene | 5 | 100 | 2.36E-03 | - | 1.48E-02 | 2.87E-03 | 7.32E-03 | 2.89E-03 |
| Trans-Nonachlor | 5 | 100 | 9.10E-04 | - | 2.89E-03 | 1.03E-03 | 1.69E-03 | 4.35E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year:** 1999

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Largemouth Bass Ovary** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 8.17E-02 | - | 1.24E-01 | 8.56E-02 | 9.29E-02 | 6.61E-03 |
| 1,2,4,5-Tetrachlorobenzene | 6 | 100 | 1.65E-02 | - | 2.59E-02 | 1.89E-02 | 1.97E-02 | 1.34E-03 |
| 4,4'-DDD | 6 | 100 | 3.87E-02 | - | 7.69E-02 | 5.45E-02 | 5.78E-02 | 5.55E-03 |
| 4,4'-DDE | 6 | 100 | 1.08E-01 | - | 3.58E-01 | 1.66E-01 | 1.96E-01 | 4.06E-02 |
| 4,4'-DDT | 6 | 100 | 2.40E-03 | - | 5.79E-03 | 3.21E-03 | 3.64E-03 | 4.85E-04 |
| Alpha-BHC | 6 | 100 | 8.42E-04 | - | 1.23E-03 | 1.06E-03 | 1.06E-03 | 6.05E-05 |
| Chlorpyrifos | 6 | 83 | ND | - | 3.91E-03 | 3.83E-04 | 9.55E-04 | 5.91E-04 |
| Cis-Nonachlor | 6 | 100 | 1.11E-01 | - | 3.06E-01 | 1.66E-01 | 1.86E-01 | 2.76E-02 |
| Dieldrin | 6 | 100 | 1.53E-02 | - | 2.48E-02 | 1.97E-02 | 1.92E-02 | 1.45E-03 |
| Endosulfan II | 6 | 100 | 4.53E-02 | - | 7.05E-02 | 6.22E-02 | 5.91E-02 | 3.82E-03 |
| Endrin | 6 | 100 | 2.51E-03 | - | 3.74E-03 | 3.17E-03 | 3.17E-03 | 2.17E-04 |
| Gamma BHC (Lindane) | 6 | 100 | 4.13E-04 | - | 7.29E-04 | 4.96E-04 | 5.15E-04 | 4.78E-05 |
| Gamma Chlordane | 6 | 100 | 4.76E-03 | - | 9.06E-03 | 6.30E-03 | 6.48E-03 | 6.00E-04 |
| Hexachlorobenzene | 6 | 100 | 4.84E-03 | - | 8.76E-03 | 7.96E-03 | 7.52E-03 | 5.63E-04 |
| Mirex | 6 | 100 | 8.57E-04 | - | 1.63E-03 | 1.34E-03 | 1.29E-03 | 1.21E-04 |
| O,P'-DDD | 6 | 100 | 1.53E-01 | - | 6.44E-01 | 4.19E-01 | 4.13E-01 | 6.71E-02 |
| O,P'-DDE | 6 | 100 | 1.51E-02 | - | 3.21E-02 | 2.14E-02 | 2.18E-02 | 2.36E-03 |
| O,P'-DDT | 6 | 100 | 1.67E-01 | - | 6.09E-01 | 4.20E-01 | 3.92E-01 | 6.44E-02 |
| Pentachloroanisole | 6 | 100 | 7.08E-04 | - | 1.06E-03 | 8.48E-04 | 8.54E-04 | 4.94E-05 |
| Pentachlorobenzene | 6 | 100 | 3.76E-02 | - | 6.43E-02 | 5.45E-02 | 5.32E-02 | 3.59E-03 |
| Trans-Nonachlor | 6 | 100 | 7.47E-03 | - | 3.45E-02 | 1.44E-02 | 1.65E-02 | 3.93E-03 |
| **Largemouth Bass Offal** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 1.70E-02 | - | 3.97E-02 | 2.18E-02 | 2.61E-02 | 4.30E-03 |
| 1,2,4,5-Tetrachlorobenzene | 6 | 67 | ND | - | 8.75E-03 | 5.21E-03 | 5.34E-03 | 1.20E-03 |
| 4,4'-DDD | 6 | 100 | 1.19E-02 | - | 3.37E-02 | 2.34E-02 | 2.36E-02 | 3.18E-03 |
| 4,4'-DDE | 6 | 100 | 4.91E-02 | - | 2.20E-01 | 8.06E-02 | 1.03E-01 | 2.48E-02 |
| 4,4'-DDT | 6 | 50 | ND | - | 2.43E-03 | 1.02E-03 | 1.26E-03 | 2.41E-04 |
| Alpha-BHC | 6 | 67 | ND | - | 2.05E-04 | 1.18E-04 | 1.21E-04 | 2.77E-05 |
| Chlorpyrifos | 6 | 100 | 5.12E-04 | - | 6.58E-04 | 5.38E-04 | 5.69E-04 | 2.85E-05 |
| Cis-Nonachlor | 6 | 100 | 2.97E-02 | - | 1.40E-01 | 7.45E-02 | 7.86E-02 | 1.47E-02 |
| Dieldrin | 6 | 100 | 2.57E-03 | - | 5.89E-03 | 3.93E-03 | 3.98E-03 | 4.91E-04 |
| Endosulfan II | 6 | 100 | 1.42E-02 | - | 6.01E-02 | 1.89E-02 | 2.48E-02 | 7.18E-03 |
| Gamma BHC (Lindane) | 6 | 100 | 1.33E-04 | - | 3.07E-04 | 1.73E-04 | 2.00E-04 | 3.09E-05 |
| Gamma Chlordane | 6 | 100 | 1.23E-03 | - | 3.77E-03 | 2.29E-03 | 2.34E-03 | 3.40E-04 |
| Hexachlorobenzene | 6 | 100 | 1.45E-03 | - | 3.09E-03 | 2.26E-03 | 2.24E-03 | 2.37E-04 |
| Mirex | 6 | 83 | ND | - | 9.71E-04 | 5.96E-04 | 6.07E-04 | 8.45E-05 |
| O,P'-DDD | 6 | 100 | 8.19E-02 | - | 3.31E-01 | 1.48E-01 | 1.74E-01 | 3.52E-02 |
| O,P'-DDE | 6 | 100 | 3.66E-03 | - | 9.76E-03 | 6.19E-03 | 6.31E-03 | 8.93E-04 |
| O,P'-DDT | 6 | 100 | 8.73E-02 | - | 2.78E-01 | 1.48E-01 | 1.61E-01 | 2.66E-02 |
| Pentachloroanisole | 6 | 83 | ND | - | 5.91E-04 | 2.56E-04 | 2.92E-04 | 7.74E-05 |
| Pentachlorobenzene | 6 | 100 | 9.16E-03 | - | 2.21E-02 | 1.27E-02 | 1.41E-02 | 2.12E-03 |
| Trans-Nonachlor | 6 | 100 | 4.49E-03 | - | 7.05E-03 | 5.36E-03 | 5.64E-03 | 4.15E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**
**Sample Year: 1998**

| | Largemouth Bass Skin-off Fillet | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 18 | 100 | 3.86E-03 | - 3.88E-01 | 1.82E-02 | 4.74E-02 | 2.19E-02 |
| 1,2,4,5-Tetrachlorobenzene | 18 | 94 | ND | - 8.87E-02 | 4.63E-03 | 1.20E-02 | 5.14E-03 |
| 4,4'-DDD | 18 | 100 | 3.81E-04 | - 8.59E-02 | 6.20E-03 | 1.52E-02 | 5.25E-03 |
| 4,4'-DDE | 18 | 94 | ND | - 2.46E-01 | 1.10E-02 | 3.90E-02 | 1.65E-02 |
| 4,4'-DDT | 18 | 56 | ND | - 5.80E-03 | 9.64E-04 | 1.46E-03 | 3.70E-04 |
| Alpha-BHC | 18 | 39 | ND | - 9.78E-04 | 9.44E-04 | 7.10E-04 | 7.61E-05 |
| Alpha-Chlordane | 18 | 11 | ND | - 1.30E-03 | 9.75E-04 | 9.87E-04 | 2.49E-05 |
| Beta-BHC | 18 | 33 | ND | - 9.88E-04 | 9.56E-04 | 7.02E-04 | 9.20E-05 |
| Chlorpyrifos | 18 | 72 | ND | - 2.20E-03 | 4.86E-04 | 6.16E-04 | 1.49E-04 |
| Cis-Nonachlor | 18 | 89 | ND | - 3.31E-01 | 1.21E-02 | 3.87E-02 | 1.81E-02 |
| Delta-BHC | 18 | 22 | ND | - 4.83E-03 | 9.70E-04 | 1.17E-03 | 2.22E-04 |
| Dieldrin | 17 | 82 | ND | - 1.97E-02 | 9.20E-04 | 2.38E-03 | 1.14E-03 |
| Endosulfan II | 18 | 72 | ND | - 2.83E-02 | 4.49E-03 | 6.78E-03 | 1.84E-03 |
| Endrin | 18 | 11 | ND | - 9.88E-04 | 9.61E-04 | 8.54E-04 | 6.91E-05 |
| Gamma BHC (Lindane) | 18 | 78 | ND | - 1.97E-03 | 2.55E-04 | 4.92E-04 | 1.37E-04 |
| Gamma Chlordane | 18 | 39 | ND | - 2.72E-03 | 9.61E-04 | 9.56E-04 | 1.42E-04 |
| Heptachlor | 18 | 17 | ND | - 9.88E-04 | 9.56E-04 | 8.63E-04 | 5.21E-05 |
| Heptachlor Epoxide | 18 | 11 | ND | - 1.20E-03 | 9.74E-04 | 9.55E-04 | 2.35E-05 |
| Hexachlorobenzene | 18 | 100 | 1.56E-04 | - 7.12E-03 | 8.33E-04 | 1.60E-03 | 4.68E-04 |
| Mirex | 18 | 11 | ND | - 1.10E-03 | 9.72E-04 | 9.11E-04 | 5.51E-05 |
| O,P'-DDD | 18 | 100 | 3.46E-03 | - 2.89E-01 | 2.20E-02 | 5.64E-02 | 2.04E-02 |
| O,P'-DDE | 18 | 17 | ND | - 1.59E-03 | 9.70E-04 | 1.00E-03 | 3.98E-05 |
| O,P'-DDT | 18 | 100 | 3.24E-03 | - 3.59E-01 | 2.51E-02 | 5.53E-02 | 1.99E-02 |
| Oxychlordane | 18 | 83 | ND | - 1.65E-02 | 9.89E-04 | 3.02E-03 | 1.12E-03 |
| Pentachloroanisole | 18 | 72 | ND | - 2.13E-03 | 1.70E-04 | 4.55E-04 | 1.51E-04 |
| Pentachlorobenzene | 18 | 100 | 1.58E-03 | - 1.99E-01 | 7.73E-03 | 2.28E-02 | 1.11E-02 |
| Trans-Nonachlor | 18 | 94 | ND | - 1.08E-02 | 1.02E-03 | 2.36E-03 | 7.08E-04 |

| | Largemouth Bass Offal | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 18 | 100 | 1.49E-02 | - 5.16E-01 | 1.36E-01 | 1.74E-01 | 3.20E-02 |
| 1,2,4,5-Tetrachlorobenzene | 18 | 100 | 4.27E-03 | - 1.63E-01 | 2.70E-02 | 4.06E-02 | 9.30E-03 |
| 4,4'-DDD | 18 | 94 | ND | - 5.17E-01 | 4.99E-02 | 9.20E-02 | 2.93E-02 |
| 4,4'-DDE | 18 | 89 | ND | - 7.01E-01 | 1.62E-01 | 1.84E-01 | 4.35E-02 |
| 4,4'-DDT | 18 | 61 | ND | - 7.51E-02 | 2.67E-03 | 1.19E-02 | 5.25E-03 |
| Aldrin | 18 | 11 | ND | - 2.65E-03 | 9.80E-04 | 1.03E-03 | 1.06E-04 |
| Alpha-BHC | 18 | 56 | ND | - 1.11E-03 | 8.79E-04 | 7.00E-04 | 8.12E-05 |
| Alpha-Chlordane | 18 | 17 | ND | - 1.70E-02 | 9.80E-04 | 2.61E-03 | 1.05E-03 |
| Beta-BHC | 18 | 78 | ND | - 1.84E-03 | 9.93E-04 | 9.47E-04 | 1.15E-04 |
| Chlorpyrifos | 18 | 100 | 1.26E-04 | - 1.90E-03 | 6.88E-04 | 9.10E-04 | 1.46E-04 |
| Cis-Nonachlor | 18 | 83 | ND | - 5.71E-01 | 7.15E-02 | 1.73E-01 | 4.74E-02 |
| Dieldrin | 18 | 100 | 6.76E-04 | - 2.12E-02 | 3.77E-03 | 4.86E-03 | 1.11E-03 |
| Endosulfan II | 18 | 78 | ND | - 2.29E-01 | 3.17E-02 | 5.91E-02 | 1.71E-02 |
| Endrin | 18 | 22 | ND | - 1.44E-03 | 9.76E-04 | 9.44E-04 | 4.65E-05 |
| Gamma BHC (Lindane) | 18 | 100 | 6.50E-05 | - 3.61E-03 | 1.11E-03 | 1.38E-03 | 2.49E-04 |
| Gamma Chlordane | 18 | 89 | ND | - 6.27E-03 | 1.40E-03 | 2.05E-03 | 3.55E-04 |
| Heptachlor | 18 | 28 | ND | - 1.05E-03 | 9.64E-04 | 7.97E-04 | 7.30E-05 |
| Hexachlorobenzene | 18 | 100 | 8.98E-04 | - 1.35E-02 | 4.93E-03 | 6.05E-03 | 8.88E-04 |
| Mirex | 18 | 17 | ND | - 1.05E-03 | 9.74E-04 | 8.95E-04 | 4.87E-05 |
| O,P'-DDD | 18 | 94 | ND | - 1.01E+00 | 3.02E-01 | 3.63E-01 | 7.12E-02 |
| O,P'-DDT | 18 | 94 | ND | - 1.09E+00 | 3.02E-01 | 3.74E-01 | 7.89E-02 |
| Oxychlordane | 18 | 44 | ND | - 3.68E-02 | 1.02E-03 | 6.72E-03 | 2.26E-03 |
| Pentachloroanisole | 18 | 100 | 1.47E-04 | - 2.52E-03 | 1.33E-03 | 1.21E-03 | 1.57E-04 |
| Pentachlorobenzene | 18 | 100 | 5.85E-03 | - 3.07E-01 | 4.99E-02 | 8.12E-02 | 1.76E-02 |
| Trans-Nonachlor | 18 | 100 | 8.60E-04 | - 2.94E-02 | 7.09E-03 | 1.08E-02 | 2.02E-03 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| | Largemouth Bass Whole Fish | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 15 | 100 | 2.55E-02 | - 3.51E-01 | 7.81E-02 | 9.65E-02 | 2.13E-02 |
| 1,2,4,5-Tetrachlorobenzene | 15 | 100 | 6.05E-03 | - 9.71E-02 | 1.73E-02 | 2.08E-02 | 5.64E-03 |
| 4,4'-DDD | 15 | 87 | ND | - 1.07E-01 | 2.51E-02 | 3.03E-02 | 6.68E-03 |
| 4,4'-DDE | 15 | 87 | ND | - 1.88E-01 | 6.49E-02 | 7.18E-02 | 1.41E-02 |
| 4,4'-DDT | 15 | 87 | ND | - 1.39E-02 | 2.83E-03 | 3.80E-03 | 8.38E-04 |
| Aldrin | 15 | 7 | ND | - 9.95E-04 | 9.66E-04 | 9.06E-04 | 6.32E-05 |
| Alpha-BHC | 15 | 60 | ND | - 9.92E-04 | 1.16E-04 | 4.38E-04 | 1.16E-04 |
| Alpha-Chlordane | 15 | 20 | ND | - 1.48E-03 | 9.80E-04 | 1.02E-03 | 4.66E-05 |
| Beta-BHC | 15 | 33 | ND | - 9.95E-04 | 9.55E-04 | 6.75E-04 | 1.11E-04 |
| Chlorpyrifos | 15 | 93 | ND | - 1.46E-03 | 3.72E-04 | 4.93E-04 | 9.45E-05 |
| Cis-Nonachlor | 15 | 93 | ND | - 3.47E-01 | 5.89E-02 | 8.89E-02 | 2.77E-02 |
| Delta-BHC | 15 | 7 | ND | - 9.95E-04 | 9.66E-04 | 9.32E-04 | 3.73E-05 |
| Dieldrin | 15 | 100 | 4.08E-04 | - 2.60E-02 | 2.43E-03 | 4.54E-03 | 1.69E-03 |
| Endosulfan II | 15 | 67 | ND | - 4.21E-02 | 3.95E-03 | 9.32E-03 | 2.91E-03 |
| Endrin | 15 | 20 | ND | - 1.23E-03 | 9.65E-04 | 9.51E-04 | 3.84E-05 |
| Gamma BHC (Lindane) | 15 | 100 | 2.80E-04 | - 2.01E-03 | 6.68E-04 | 8.23E-04 | 1.16E-04 |
| Gamma Chlordane | 15 | 73 | ND | - 3.52E-03 | 9.76E-04 | 1.35E-03 | 2.14E-04 |
| Heptachlor | 15 | 7 | ND | - 2.04E-03 | 9.70E-04 | 1.04E-03 | 7.15E-05 |
| Heptachlor Epoxide | 15 | 33 | ND | - 1.37E-03 | 9.66E-04 | 8.62E-04 | 9.45E-05 |
| Hexachlorobenzene | 15 | 100 | 6.97E-04 | - 7.39E-03 | 3.35E-03 | 3.62E-03 | 5.30E-04 |
| Mirex | 15 | 33 | ND | - 9.95E-04 | 9.55E-04 | 8.09E-04 | 8.09E-05 |
| O,P'-DDD | 15 | 100 | 7.61E-03 | - 2.91E-01 | 1.13E-01 | 1.25E-01 | 2.45E-02 |
| O,P'-DDE | 15 | 40 | ND | - 1.10E-03 | 9.56E-04 | 9.08E-04 | 4.46E-05 |
| O,P'-DDT | 15 | 100 | 9.13E-03 | - 6.47E-01 | 1.51E-01 | 1.90E-01 | 5.05E-02 |
| Oxychlordane | 15 | 47 | ND | - 1.64E-02 | 9.95E-04 | 4.10E-03 | 1.12E-03 |
| Pentachloroanisole | 15 | 100 | 2.33E-04 | - 2.27E-03 | 7.74E-04 | 9.40E-04 | 1.54E-04 |
| Pentachlorobenzene | 15 | 100 | 6.87E-03 | - 1.20E-01 | 3.63E-02 | 4.82E-02 | 1.01E-02 |
| Trans-Nonachlor | 15 | 100 | 1.94E-03 | - 1.77E-02 | 3.94E-03 | 5.48E-03 | 1.07E-03 |

| | Largemouth Bass Whole Fish Composite | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 7 | 100 | 3.55E-02 | - 3.20E-01 | 9.00E-02 | 1.52E-01 | 4.33E-02 |
| 1,2,4,5-Tetrachlorobenzene | 7 | 100 | 1.01E-02 | - 6.73E-02 | 1.72E-02 | 3.09E-02 | 8.34E-03 |
| 4,4'-DDD | 7 | 100 | 1.73E-02 | - 6.23E-02 | 2.36E-02 | 3.04E-02 | 6.02E-03 |
| 4,4'-DDE | 7 | 100 | 4.66E-02 | - 1.10E-01 | 6.00E-02 | 6.35E-02 | 8.36E-03 |
| 4,4'-DDT | 7 | 100 | 1.72E-03 | - 1.26E-02 | 3.78E-03 | 5.54E-03 | 1.43E-03 |
| Alpha-BHC | 7 | 57 | ND | - 9.75E-04 | 2.80E-04 | 5.33E-04 | 1.53E-04 |
| Alpha-Chlordane | 7 | 29 | ND | - 9.50E-03 | 9.71E-04 | 2.15E-03 | 1.22E-03 |
| Beta-BHC | 7 | 86 | ND | - 9.75E-04 | 5.02E-04 | 4.97E-04 | 1.09E-04 |
| Chlorpyrifos | 7 | 100 | 2.86E-04 | - 1.59E-03 | 1.01E-03 | 9.07E-04 | 1.69E-04 |
| Cis-Nonachlor | 7 | 100 | 4.86E-02 | - 1.30E-01 | 5.74E-02 | 7.63E-02 | 1.39E-02 |
| Delta-BHC | 7 | 14 | ND | - 2.32E-02 | 9.71E-04 | 4.21E-03 | 3.17E-03 |
| Dieldrin | 7 | 71 | ND | - 3.26E-02 | 2.60E-03 | 6.28E-03 | 4.40E-03 |
| Endosulfan II | 7 | 86 | ND | - 5.63E-02 | 1.64E-02 | 1.99E-02 | 6.49E-03 |
| Endrin | 7 | 14 | ND | - 1.47E-03 | 9.71E-04 | 1.10E-03 | 8.69E-05 |
| Gamma BHC (Lindane) | 7 | 71 | ND | - 1.84E-03 | 9.48E-04 | 9.83E-04 | 1.52E-04 |
| Gamma Chlordane | 7 | 57 | ND | - 2.92E-03 | 1.07E-03 | 1.57E-03 | 3.27E-04 |
| Heptachlor | 7 | 29 | ND | - 1.47E-03 | 9.71E-04 | 8.30E-04 | 1.71E-04 |
| Heptachlor Epoxide | 7 | 14 | ND | - 8.54E-03 | 9.71E-04 | 2.12E-03 | 1.07E-03 |
| Hexachlorobenzene | 7 | 100 | 3.51E-03 | - 9.00E-03 | 4.05E-03 | 5.33E-03 | 8.00E-04 |
| Mirex | 7 | 14 | ND | - 9.96E-04 | 9.71E-04 | 8.91E-04 | 7.94E-05 |
| O,P'-DDD | 7 | 100 | 7.41E-02 | - 1.46E-01 | 1.02E-01 | 1.05E-01 | 1.03E-02 |
| O,P'-DDT | 7 | 100 | 7.68E-02 | - 1.83E-01 | 1.54E-01 | 1.32E-01 | 1.66E-02 |
| Oxychlordane | 7 | 86 | ND | - 1.28E-02 | 7.83E-03 | 7.58E-03 | 1.32E-03 |
| Pentachloroanisole | 7 | 100 | 9.62E-04 | - 2.56E-03 | 1.22E-03 | 1.38E-03 | 2.09E-04 |
| Pentachlorobenzene | 7 | 86 | ND | - 1.29E-01 | 4.12E-02 | 5.37E-02 | 1.75E-02 |
| Toxaphene | 7 | 14 | ND | - 1.94E-02 | 9.74E-03 | 1.18E-02 | 1.45E-03 |
| Trans-Nonachlor | 7 | 100 | 3.44E-03 | - 1.16E-02 | 4.35E-03 | 5.25E-03 | 1.08E-03 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| | Pumpkinseed Skin-off Fillet | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 13 | 100 | 3.64E-04 | - 1.80E-03 | 6.23E-04 | 7.70E-04 | 1.16E-04 |
| 4,4'-DDD | 13 | 100 | 4.49E-04 | - 3.72E-03 | 1.46E-03 | 1.64E-03 | 2.12E-04 |
| 4,4'-DDE | 13 | 100 | 3.20E-03 | - 2.12E-02 | 1.00E-02 | 1.09E-02 | 1.40E-03 |
| 4,4'-DDT | 13 | 77 | ND | - 3.78E-03 | 4.00E-04 | 7.44E-04 | 2.66E-04 |
| Aldrin | 13 | 8 | ND | - 1.20E-03 | 9.90E-04 | 9.33E-04 | 7.63E-05 |
| Alpha-BHC | 13 | 100 | 3.30E-05 | - 1.94E-04 | 1.44E-04 | 1.30E-04 | 1.46E-05 |
| Alpha-Chlordane | 13 | 69 | ND | - 1.20E-03 | 5.20E-04 | 6.50E-04 | 9.17E-05 |
| Beta-BHC | 13 | 31 | ND | - 1.20E-03 | 9.86E-04 | 7.22E-04 | 1.27E-04 |
| Chlorpyrifos | 13 | 8 | ND | - 1.20E-03 | 5.00E-05 | 2.85E-04 | 1.23E-04 |
| Cis-Nonachlor | 13 | 100 | 1.07E-03 | - 6.66E-03 | 2.94E-03 | 3.27E-03 | 3.85E-04 |
| Delta-BHC | 13 | 38 | ND | - 1.20E-03 | 9.85E-04 | 6.40E-04 | 1.38E-04 |
| Dieldrin | 13 | 38 | ND | - 1.00E-03 | 9.86E-04 | 6.78E-04 | 1.16E-04 |
| Endosulfan II | 13 | 92 | ND | - 4.46E-03 | 1.32E-03 | 1.70E-03 | 2.96E-04 |
| Endrin | 13 | 8 | ND | - 1.20E-03 | 9.90E-04 | 9.34E-04 | 7.59E-05 |
| Gamma BHC (Lindane) | 13 | 100 | 7.90E-05 | - 3.51E-04 | 1.29E-04 | 1.59E-04 | 2.26E-05 |
| Gamma Chlordane | 13 | 8 | ND | - 1.20E-03 | 9.90E-04 | 9.37E-04 | 7.28E-05 |
| Heptachlor | 13 | 38 | ND | - 1.00E-03 | 9.86E-04 | 6.34E-04 | 1.31E-04 |
| Heptachlor Epoxide | 13 | 31 | ND | - 1.00E-03 | 9.86E-04 | 7.08E-04 | 1.23E-04 |
| Hexachlorobenzene | 13 | 23 | ND | - 6.11E-04 | 1.51E-04 | 1.83E-04 | 4.16E-05 |
| O,P'-DDD | 13 | 100 | 2.46E-03 | - 1.57E-02 | 9.07E-03 | 9.18E-03 | 1.05E-03 |
| O,P'-DDE | 13 | 8 | ND | - 1.20E-03 | 9.90E-04 | 9.43E-04 | 6.66E-05 |
| O,P'-DDT | 13 | 100 | 1.87E-03 | - 1.85E-02 | 1.16E-02 | 1.12E-02 | 1.35E-03 |
| Oxychlordane | 13 | 31 | ND | - 1.00E-03 | 9.86E-04 | 8.67E-04 | 5.64E-05 |
| Pentachloroanisole | 13 | 31 | ND | - 5.70E-04 | 9.35E-05 | 1.68E-04 | 4.66E-05 |
| Pentachlorobenzene | 13 | 85 | ND | - 9.92E-04 | 2.53E-04 | 3.01E-04 | 6.72E-05 |
| Trans-Nonachlor | 13 | 100 | 2.89E-04 | - 1.96E-03 | 9.77E-04 | 9.88E-04 | 1.26E-04 |

| | Pumpkinseed Offal | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 13 | 100 | 9.94E-04 | - 6.34E-03 | 2.07E-03 | 2.64E-03 | 4.59E-04 |
| 1,2,4,5-Tetrachlorobenzene | 13 | 85 | ND | - 6.95E-03 | 2.46E-03 | 2.62E-03 | 5.68E-04 |
| 4,4'-DDD | 13 | 100 | 9.64E-03 | - 1.09E+00 | 2.99E-02 | 1.13E-01 | 8.17E-02 |
| 4,4'-DDE | 13 | 77 | ND | - 1.64E-01 | 6.34E-02 | 6.52E-02 | 1.35E-02 |
| 4,4'-DDT | 13 | 69 | ND | - 2.24E-02 | 1.15E-03 | 3.28E-03 | 1.63E-03 |
| Alpha-BHC | 13 | 54 | ND | - 9.94E-04 | 1.55E-04 | 4.87E-04 | 1.33E-04 |
| Alpha-Chlordane | 13 | 23 | ND | - 1.71E-03 | 9.88E-04 | 1.07E-03 | 7.96E-05 |
| Beta-BHC | 13 | 62 | ND | - 9.90E-04 | 5.39E-04 | 5.54E-04 | 1.06E-04 |
| Chlorpyrifos | 13 | 38 | ND | - 9.96E-04 | 9.85E-04 | 6.72E-04 | 1.17E-04 |
| Cis-Nonachlor | 13 | 38 | ND | - 4.41E-02 | 9.96E-04 | 1.04E-02 | 3.95E-03 |
| Delta-BHC | 13 | 69 | ND | - 1.82E-03 | 9.01E-04 | 8.02E-04 | 1.30E-04 |
| Dieldrin | 13 | 92 | ND | - 2.27E-03 | 1.24E-03 | 1.32E-03 | 1.61E-04 |
| Endosulfan II | 13 | 38 | ND | - 3.38E-02 | 9.96E-04 | 7.62E-03 | 2.87E-03 |
| Endrin | 13 | 54 | ND | - 1.21E-03 | 9.75E-04 | 7.18E-04 | 1.02E-04 |
| Gamma BHC (Lindane) | 13 | 100 | 1.00E-04 | - 1.16E-03 | 4.20E-04 | 5.41E-04 | 9.80E-05 |
| Gamma Chlordane | 13 | 69 | ND | - 9.96E-04 | 3.60E-04 | 5.05E-04 | 1.01E-04 |
| Heptachlor | 13 | 38 | ND | - 9.96E-04 | 9.70E-04 | 6.61E-04 | 1.17E-04 |
| Hexachlorobenzene | 13 | 100 | 1.94E-04 | - 1.93E-03 | 8.43E-04 | 8.86E-04 | 1.47E-04 |
| Mirex | 13 | 69 | ND | - 3.31E-03 | 9.90E-04 | 1.41E-03 | 2.33E-04 |
| O,P'-DDD | 13 | 77 | ND | - 1.56E-01 | 4.84E-02 | 5.16E-02 | 1.20E-02 |
| O,P'-DDT | 13 | 100 | 2.71E-02 | - 1.68E-01 | 6.81E-02 | 7.75E-02 | 9.98E-03 |
| Oxychlordane | 13 | 46 | ND | - 1.14E-02 | 9.96E-04 | 2.37E-03 | 8.57E-04 |
| Pentachloroanisole | 13 | 100 | 1.20E-04 | - 1.00E-03 | 5.32E-04 | 5.50E-04 | 8.41E-05 |
| Pentachlorobenzene | 13 | 100 | 2.08E-04 | - 4.39E-03 | 7.21E-04 | 1.26E-03 | 3.57E-04 |
| Trans-Nonachlor | 13 | 100 | 2.79E-03 | - 1.21E-02 | 5.36E-03 | 6.22E-03 | 6.60E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Pumpkinseed Whole Fish Composite | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 5 | 100 | 1.62E-03 | - | 2.29E-03 | 2.14E-03 | 2.03E-03 | 1.34E-04 |
| 1,2,4,5-Tetrachlorobenzene | 5 | 100 | 3.05E-04 | - | 1.36E-03 | 1.18E-03 | 9.51E-04 | 1.94E-04 |
| 4,4'-DDD | 5 | 100 | 9.39E-03 | - | 1.30E-02 | 1.03E-02 | 1.05E-02 | 6.56E-04 |
| 4,4'-DDE | 5 | 100 | 3.97E-02 | - | 5.01E-02 | 4.23E-02 | 4.38E-02 | 2.01E-03 |
| 4,4'-DDT | 5 | 100 | 2.66E-04 | - | 1.28E-03 | 7.91E-04 | 8.01E-04 | 1.80E-04 |
| Alpha-BHC | 5 | 100 | 1.90E-05 | - | 1.89E-04 | 1.13E-04 | 1.13E-04 | 3.30E-05 |
| Alpha-Chlordane | 5 | 20 | ND | - | 9.73E-04 | 9.60E-04 | 9.09E-04 | 4.47E-05 |
| Beta-BHC | 5 | 100 | 3.20E-05 | - | 5.78E-04 | 1.53E-04 | 2.21E-04 | 1.02E-04 |
| Chlorpyrifos | 5 | 100 | 1.90E-04 | - | 3.09E-04 | 2.33E-04 | 2.35E-04 | 2.04E-05 |
| Cis-Nonachlor | 5 | 100 | 1.37E-02 | - | 1.87E-02 | 1.69E-02 | 1.63E-02 | 9.77E-04 |
| Delta-BHC | 5 | 60 | ND | - | 9.90E-04 | 2.28E-04 | 4.77E-04 | 2.08E-04 |
| Dieldrin | 5 | 80 | ND | - | 1.49E-03 | 1.06E-03 | 1.06E-03 | 1.77E-04 |
| Endosulfan II | 5 | 100 | 4.63E-03 | - | 1.58E-02 | 1.30E-02 | 1.06E-02 | 2.39E-03 |
| Gamma BHC (Lindane) | 5 | 100 | 4.80E-04 | - | 7.09E-04 | 5.88E-04 | 5.79E-04 | 3.97E-05 |
| Gamma Chlordane | 5 | 40 | ND | - | 9.73E-04 | 9.08E-04 | 6.75E-04 | 1.68E-04 |
| Heptachlor | 5 | 100 | 8.10E-05 | - | 5.43E-04 | 1.60E-04 | 2.55E-04 | 8.35E-05 |
| Heptachlor Epoxide | 5 | 80 | ND | - | 1.93E-03 | 9.79E-04 | 1.05E-03 | 2.74E-04 |
| Hexachlorobenzene | 5 | 80 | ND | - | 1.89E-03 | 4.49E-04 | 7.38E-04 | 2.98E-04 |
| O,P'-DDD | 5 | 100 | 3.39E-02 | - | 4.44E-02 | 4.02E-02 | 3.92E-02 | 2.14E-03 |
| O,P'-DDT | 5 | 100 | 3.09E-02 | - | 3.69E-02 | 3.66E-02 | 3.55E-02 | 1.14E-03 |
| Oxychlordane | 5 | 100 | 2.54E-03 | - | 3.94E-03 | 3.17E-03 | 3.21E-03 | 2.56E-04 |
| Pentachloroanisole | 5 | 100 | 3.27E-04 | - | 5.47E-04 | 4.07E-04 | 4.15E-04 | 3.82E-05 |
| Pentachlorobenzene | 5 | 100 | 3.63E-04 | - | 2.00E-03 | 7.84E-04 | 9.52E-04 | 2.99E-04 |
| Toxaphene | 5 | 60 | ND | - | 1.95E-02 | 1.81E-02 | 1.53E-02 | 2.25E-03 |
| Trans-Nonachlor | 5 | 100 | 2.67E-03 | - | 3.26E-03 | 2.81E-03 | 2.86E-03 | 1.05E-04 |

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Pumpkinseed Skin-off Fillet | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 25 | 100 | 2.72E-03 | - | 2.67E-02 | 7.61E-03 | 9.33E-03 | 1.24E-03 |
| 1,2,4,5-Tetrachlorobenzene | 25 | 100 | 1.16E-03 | - | 1.47E-02 | 1.99E-03 | 3.07E-03 | 5.66E-04 |
| 4,4'-DDD | 25 | 100 | 4.48E-04 | - | 3.54E-02 | 2.62E-03 | 4.67E-03 | 1.42E-03 |
| 4,4'-DDE | 25 | 100 | 2.25E-03 | - | 1.42E-01 | 1.22E-02 | 1.83E-02 | 5.39E-03 |
| 4,4'-DDT | 25 | 60 | ND | - | 4.54E-03 | 1.03E-03 | 9.94E-04 | 1.69E-04 |
| Aldrin | 25 | 8 | ND | - | 1.32E-03 | 1.15E-03 | 1.09E-03 | 3.32E-05 |
| Alpha-BHC | 25 | 84 | ND | - | 1.22E-03 | 2.44E-04 | 3.46E-04 | 6.98E-05 |
| Alpha-Chlordane | 25 | 52 | ND | - | 1.48E-03 | 9.96E-04 | 9.23E-04 | 6.73E-05 |
| Beta-BHC | 25 | 8 | ND | - | 1.32E-03 | 9.98E-04 | 9.06E-04 | 9.00E-05 |
| Chlorpyrifos | 25 | 8 | ND | - | 1.24E-03 | 9.96E-04 | 7.95E-04 | 9.84E-05 |
| Cis-Nonachlor | 25 | 100 | 1.93E-03 | - | 5.69E-02 | 8.34E-03 | 1.13E-02 | 2.17E-03 |
| Delta-BHC | 25 | 16 | ND | - | 1.32E-03 | 1.15E-03 | 9.53E-04 | 7.89E-05 |
| Dieldrin | 25 | 96 | ND | - | 1.39E-03 | 5.74E-04 | 6.51E-04 | 6.16E-05 |
| Endosulfan II | 25 | 80 | ND | - | 2.63E-02 | 3.08E-03 | 3.99E-03 | 1.02E-03 |
| Endrin | 25 | 4 | ND | - | 1.32E-03 | 1.07E-03 | 1.07E-03 | 4.60E-05 |
| Gamma BHC (Lindane) | 25 | 96 | ND | - | 1.67E-03 | 9.50E-05 | 1.90E-04 | 6.41E-05 |
| Gamma Chlordane | 25 | 20 | ND | - | 1.32E-03 | 1.03E-03 | 8.85E-04 | 8.73E-05 |
| Heptachlor | 25 | 28 | ND | - | 1.24E-03 | 1.07E-03 | 8.75E-04 | 8.65E-05 |
| Heptachlor Epoxide | 25 | 12 | ND | - | 1.32E-03 | 1.07E-03 | 1.04E-03 | 5.08E-05 |
| Hexachlorobenzene | 25 | 100 | 1.64E-04 | - | 1.91E-03 | 4.33E-04 | 5.42E-04 | 8.36E-05 |
| Mirex | 25 | 8 | ND | - | 1.32E-03 | 1.07E-03 | 1.03E-03 | 5.71E-05 |
| O,P'-DDD | 25 | 100 | 5.12E-03 | - | 1.94E-01 | 1.92E-02 | 2.80E-02 | 7.19E-03 |
| O,P'-DDE | 25 | 8 | ND | - | 1.32E-03 | 1.15E-03 | 1.07E-03 | 4.20E-05 |
| O,P'-DDT | 25 | 100 | 3.40E-03 | - | 2.22E-01 | 1.54E-02 | 2.39E-02 | 8.37E-03 |
| Oxychlordane | 25 | 36 | ND | - | 1.36E-02 | 1.23E-03 | 2.21E-03 | 5.17E-04 |
| Pentachloroanisole | 25 | 68 | ND | - | 7.46E-04 | 1.79E-04 | 2.04E-04 | 3.27E-05 |
| Pentachlorobenzene | 25 | 100 | 8.48E-04 | - | 1.04E-02 | 3.30E-03 | 3.76E-03 | 4.83E-04 |
| Trans-Nonachlor | 25 | 92 | ND | - | 5.90E-03 | 8.45E-04 | 1.11E-03 | 2.32E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Pumpkinseed Offal** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 25 | 72 | ND | - | 1.27E-01 | 2.49E-02 | 3.62E-02 | 7.32E-03 |
| 1,2,4,5-Tetrachlorobenzene | 25 | 88 | ND | - | 2.67E-02 | 1.13E-02 | 1.12E-02 | 1.35E-03 |
| 4,4'-DDD | 25 | 92 | ND | - | 5.40E-02 | 2.22E-02 | 2.33E-02 | 2.80E-03 |
| 4,4'-DDE | 25 | 92 | ND | - | 2.95E-01 | 7.60E-02 | 9.56E-02 | 1.83E-02 |
| 4,4'-DDT | 25 | 20 | ND | - | 5.77E-03 | 9.75E-04 | 1.25E-03 | 2.21E-04 |
| Alpha-BHC | 25 | 48 | ND | - | 9.98E-04 | 7.25E-04 | 5.34E-04 | 8.32E-05 |
| Beta-BHC | 25 | 76 | ND | - | 2.91E-03 | 9.75E-04 | 1.04E-03 | 1.49E-04 |
| Chlorpyrifos | 25 | 72 | ND | - | 1.24E-03 | 6.24E-04 | 6.27E-04 | 7.60E-05 |
| Cis-Nonachlor | 25 | 100 | 8.71E-03 | - | 2.07E-01 | 5.86E-02 | 7.69E-02 | 1.14E-02 |
| Delta-BHC | 25 | 60 | ND | - | 8.77E-03 | 9.10E-04 | 1.66E-03 | 4.59E-04 |
| Dieldrin | 25 | 96 | ND | - | 9.84E-03 | 4.20E-03 | 4.41E-03 | 4.40E-04 |
| Endosulfan II | 25 | 84 | ND | - | 4.95E-02 | 2.59E-02 | 2.43E-02 | 2.86E-03 |
| Endrin | 25 | 24 | ND | - | 1.32E-03 | 9.60E-04 | 8.77E-04 | 4.37E-05 |
| Gamma BHC (Lindane) | 25 | 100 | 1.46E-04 | - | 3.46E-03 | 8.87E-04 | 1.02E-03 | 1.63E-04 |
| Gamma Chlordane | 25 | 32 | ND | - | 9.90E-04 | 8.40E-04 | 7.06E-04 | 6.45E-05 |
| Heptachlor | 25 | 12 | ND | - | 9.98E-04 | 9.53E-04 | 8.30E-04 | 5.40E-05 |
| Heptachlor Epoxide | 25 | 24 | ND | - | 2.35E-02 | 9.75E-04 | 4.10E-03 | 1.36E-03 |
| Hexachlorobenzene | 25 | 100 | 3.74E-04 | - | 4.30E-03 | 1.98E-03 | 1.96E-03 | 2.07E-04 |
| Mirex | 25 | 8 | ND | - | 9.98E-04 | 9.55E-04 | 8.96E-04 | 3.18E-05 |
| O,P'-DDD | 25 | 100 | 2.72E-02 | - | 3.67E-01 | 1.74E-01 | 1.81E-01 | 1.93E-02 |
| O,P'-DDT | 25 | 92 | ND | - | 4.33E-01 | 7.63E-02 | 1.10E-01 | 2.37E-02 |
| Oxychlordane | 25 | 16 | ND | - | 2.29E-02 | 9.62E-04 | 2.66E-03 | 9.94E-04 |
| Pentachloroanisole | 25 | 96 | ND | - | 1.82E-03 | 1.08E-03 | 1.05E-03 | 9.95E-05 |
| Pentachlorobenzene | 25 | 100 | 1.55E-03 | - | 5.53E-02 | 1.84E-02 | 1.92E-02 | 2.29E-03 |
| Toxaphene | 25 | 4 | ND | - | 1.91E-02 | 9.65E-03 | 9.69E-03 | 4.19E-04 |
| Trans-Nonachlor | 25 | 100 | 1.36E-03 | - | 1.06E-02 | 4.44E-03 | 5.28E-03 | 5.04E-04 |
| **Pumpkinseed Whole Fish Composite** | | | | | | | | |
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Range Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 5 | 100 | 6.90E-03 | - | 6.45E-02 | 4.54E-02 | 4.03E-02 | 9.88E-03 |
| 1,2,4,5-Tetrachlorobenzene | 5 | 100 | 2.61E-03 | - | 1.38E-02 | 1.20E-02 | 9.33E-03 | 2.23E-03 |
| 4,4'-DDD | 5 | 100 | 6.11E-03 | - | 2.31E-02 | 1.60E-02 | 1.59E-02 | 2.87E-03 |
| 4,4'-DDE | 5 | 100 | 1.21E-02 | - | 6.61E-02 | 3.00E-02 | 3.90E-02 | 1.04E-02 |
| 4,4'-DDT | 5 | 80 | ND | - | 1.11E-03 | 8.66E-04 | 8.95E-04 | 6.67E-05 |
| Aldrin | 5 | 20 | ND | - | 1.65E-03 | 9.51E-04 | 1.07E-03 | 2.67E-04 |
| Alpha-BHC | 5 | 40 | ND | - | 1.65E-03 | 9.50E-04 | 7.50E-04 | 2.93E-04 |
| Beta-BHC | 5 | 60 | ND | - | 1.63E-03 | 3.92E-04 | 6.52E-04 | 2.85E-04 |
| Chlorpyrifos | 5 | 60 | ND | - | 3.97E-03 | 1.65E-03 | 1.71E-03 | 6.16E-04 |
| Cis-Nonachlor | 5 | 100 | 1.89E-02 | - | 4.46E-02 | 3.47E-02 | 3.40E-02 | 4.55E-03 |
| Delta-BHC | 5 | 60 | ND | - | 4.14E-03 | 9.35E-04 | 1.34E-03 | 7.11E-04 |
| Dieldrin | 5 | 100 | 1.36E-03 | - | 2.95E-02 | 4.06E-03 | 8.56E-03 | 5.28E-03 |
| Endosulfan II | 5 | 20 | ND | - | 1.93E-02 | 1.63E-03 | 4.90E-03 | 3.61E-03 |
| Gamma BHC (Lindane) | 5 | 100 | 2.02E-04 | - | 1.54E-03 | 6.44E-04 | 7.29E-04 | 2.19E-04 |
| Gamma Chlordane | 5 | 80 | ND | - | 2.49E-03 | 1.51E-03 | 1.54E-03 | 2.63E-04 |
| Heptachlor Epoxide | 5 | 80 | ND | - | 2.92E-03 | 2.04E-03 | 2.00E-03 | 3.51E-04 |
| Hexachlorobenzene | 5 | 100 | 3.72E-04 | - | 2.97E-03 | 2.27E-03 | 2.01E-03 | 4.35E-04 |
| O,P'-DDD | 5 | 100 | 3.42E-02 | - | 2.00E-01 | 6.84E-02 | 8.73E-02 | 2.91E-02 |
| O,P'-DDE | 5 | 20 | ND | - | 5.75E-03 | 1.63E-03 | 2.18E-03 | 9.05E-04 |
| O,P'-DDT | 5 | 100 | 3.52E-02 | - | 2.13E-01 | 7.15E-02 | 9.05E-02 | 3.14E-02 |
| Oxychlordane | 5 | 60 | ND | - | 1.12E-02 | 9.89E-03 | 6.66E-03 | 2.34E-03 |
| Pentachloroanisole | 5 | 100 | 5.81E-04 | - | 1.43E-03 | 1.32E-03 | 1.16E-03 | 1.54E-04 |
| Pentachlorobenzene | 5 | 100 | 2.29E-03 | - | 2.41E-02 | 1.94E-02 | 1.69E-02 | 4.04E-03 |
| Trans-Nonachlor | 5 | 100 | 1.52E-03 | - | 3.49E-03 | 3.07E-03 | 2.83E-03 | 3.40E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| | Pumpkinseed Skin-off Fillet | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 26 | 100 | 3.90E-03 | - 7.34E-02 | 1.32E-02 | 1.58E-02 | 2.46E-03 |
| 1,2,4,5-Tetrachlorobenzene | 26 | 92 | ND | - 1.67E-02 | 3.42E-03 | 3.82E-03 | 5.91E-04 |
| 4,4'-DDD | 26 | 100 | 1.11E-03 | - 1.83E-02 | 3.93E-03 | 4.90E-03 | 6.93E-04 |
| 4,4'-DDE | 26 | 100 | 2.97E-03 | - 2.76E-02 | 9.74E-03 | 1.13E-02 | 1.23E-03 |
| 4,4'-DDT | 26 | 69 | ND | - 1.87E-03 | 6.24E-04 | 6.80E-04 | 8.71E-05 |
| Alpha-BHC | 26 | 42 | ND | - 1.23E-03 | 9.42E-04 | 6.48E-04 | 8.90E-05 |
| Alpha-Chlordane | 26 | 12 | ND | - 1.47E-03 | 9.83E-04 | 1.06E-03 | 4.53E-05 |
| Beta-BHC | 26 | 15 | ND | - 1.47E-03 | 9.77E-04 | 9.07E-04 | 7.91E-05 |
| Chlorpyrifos | 26 | 38 | ND | - 1.23E-03 | 9.42E-04 | 6.74E-04 | 8.39E-05 |
| Cis-Nonachlor | 26 | 92 | ND | - 1.73E-02 | 9.58E-03 | 9.06E-03 | 8.35E-04 |
| Delta-BHC | 26 | 35 | ND | - 1.47E-03 | 9.71E-04 | 8.88E-04 | 7.76E-05 |
| Dieldrin | 26 | 92 | ND | - 7.37E-03 | 8.27E-04 | 2.05E-03 | 4.49E-04 |
| Endosulfan II | 26 | 88 | ND | - 9.57E-03 | 3.14E-03 | 3.81E-03 | 4.61E-04 |
| Endrin | 26 | 19 | ND | - 1.47E-03 | 9.74E-04 | 8.99E-04 | 8.18E-05 |
| Gamma BHC (Lindane) | 26 | 85 | ND | - 1.23E-03 | 1.48E-04 | 2.80E-04 | 6.96E-05 |
| Gamma Chlordane | 26 | 23 | ND | - 1.47E-03 | 9.83E-04 | 9.47E-04 | 7.97E-05 |
| Heptachlor | 26 | 27 | ND | - 1.47E-03 | 9.83E-04 | 9.57E-04 | 7.19E-05 |
| Heptachlor Epoxide | 26 | 12 | ND | - 2.34E-03 | 9.94E-04 | 1.16E-03 | 6.04E-05 |
| Hexachlorobenzene | 26 | 100 | 1.69E-04 | - 2.33E-03 | 6.86E-04 | 7.29E-04 | 8.00E-05 |
| Mirex | 26 | 4 | ND | - 1.47E-03 | 9.90E-04 | 1.05E-03 | 5.47E-05 |
| O,P'-DDD | 26 | 96 | ND | - 5.39E-02 | 1.91E-02 | 2.03E-02 | 2.27E-03 |
| O,P'-DDE | 26 | 42 | ND | - 2.34E-03 | 1.04E-03 | 1.13E-03 | 9.53E-05 |
| O,P'-DDT | 26 | 100 | 2.61E-03 | - 4.55E-02 | 1.63E-02 | 1.82E-02 | 2.05E-03 |
| Oxychlordane | 26 | 46 | ND | - 2.12E-03 | 1.13E-03 | 1.18E-03 | 6.99E-05 |
| Pentachloroanisole | 26 | 88 | ND | - 8.10E-04 | 2.25E-04 | 2.54E-04 | 3.55E-05 |
| Pentachlorobenzene | 26 | 100 | 1.49E-03 | - 3.22E-02 | 6.10E-03 | 6.78E-03 | 1.14E-03 |
| Trans-Nonachlor | 26 | 96 | ND | - 2.03E-03 | 1.03E-03 | 1.08E-03 | 1.02E-04 |

| | Pumpkinseed Offal | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 26 | 100 | 1.99E-02 | - 2.95E-01 | 9.16E-02 | 1.02E-01 | 1.30E-02 |
| 1,2,4,5-Tetrachlorobenzene | 26 | 96 | ND | - 4.90E-02 | 1.79E-02 | 1.92E-02 | 2.24E-03 |
| 4,4'-DDD | 26 | 77 | ND | - 9.74E-02 | 3.42E-02 | 3.46E-02 | 5.46E-03 |
| 4,4'-DDE | 26 | 100 | 2.57E-02 | - 3.76E-01 | 1.05E-01 | 1.27E-01 | 1.68E-02 |
| 4,4'-DDT | 26 | 77 | ND | - 2.92E-02 | 5.87E-03 | 7.25E-03 | 1.30E-03 |
| Aldrin | 26 | 8 | ND | - 1.02E-03 | 9.79E-04 | 9.10E-04 | 4.39E-05 |
| Alpha-BHC | 26 | 38 | ND | - 1.34E-03 | 9.62E-04 | 8.65E-04 | 5.28E-05 |
| Alpha-Chlordane | 26 | 27 | ND | - 2.26E-02 | 9.82E-04 | 3.28E-03 | 9.90E-04 |
| Beta-BHC | 26 | 85 | ND | - 4.12E-03 | 8.87E-04 | 1.11E-03 | 1.98E-04 |
| Chlorpyrifos | 26 | 50 | ND | - 1.46E-03 | 9.55E-04 | 7.63E-04 | 6.55E-05 |
| Cis-Nonachlor | 26 | 69 | ND | - 2.67E-01 | 4.78E-02 | 6.71E-02 | 1.50E-02 |
| Delta-BHC | 26 | 23 | ND | - 9.98E-04 | 9.67E-04 | 8.59E-04 | 4.32E-05 |
| Dieldrin | 26 | 77 | ND | - 3.71E-02 | 2.29E-03 | 4.77E-03 | 1.72E-03 |
| Endosulfan II | 26 | 73 | ND | - 4.86E-02 | 1.93E-02 | 1.87E-02 | 2.91E-03 |
| Endrin | 26 | 4 | ND | - 1.02E-03 | 9.80E-04 | 9.51E-04 | 2.28E-05 |
| Gamma BHC (Lindane) | 26 | 100 | 1.27E-04 | - 3.85E-03 | 9.09E-04 | 1.35E-03 | 2.05E-04 |
| Gamma Chlordane | 26 | 31 | ND | - 1.71E-03 | 9.79E-04 | 9.23E-04 | 5.95E-05 |
| Heptachlor | 26 | 23 | ND | - 1.02E-03 | 9.69E-04 | 8.28E-04 | 5.99E-05 |
| Hexachlorobenzene | 26 | 100 | 1.11E-03 | - 8.33E-03 | 4.08E-03 | 4.12E-03 | 3.32E-04 |
| Mirex | 26 | 38 | ND | - 7.69E-03 | 9.74E-04 | 1.61E-03 | 3.16E-04 |
| O,P'-DDD | 26 | 100 | 3.45E-02 | - 4.95E-01 | 1.84E-01 | 2.00E-01 | 2.06E-02 |
| O,P'-DDT | 26 | 100 | 3.17E-02 | - 3.78E-01 | 1.37E-01 | 1.48E-01 | 1.82E-02 |
| Oxychlordane | 26 | 62 | ND | - 2.48E-02 | 8.67E-03 | 8.00E-03 | 1.37E-03 |
| Pentachloroanisole | 26 | 100 | 4.67E-04 | - 2.85E-03 | 1.55E-03 | 1.76E-03 | 1.34E-04 |
| Pentachlorobenzene | 26 | 100 | 9.36E-03 | - 1.07E-01 | 3.78E-02 | 4.32E-02 | 5.47E-03 |
| Trans-Nonachlor | 26 | 100 | 4.18E-03 | - 3.24E-02 | 7.87E-03 | 9.02E-03 | 1.09E-03 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| | Pumpkinseed Whole Fish Composite | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 5 | 100 | 5.73E-02 | - 7.44E-02 | 6.40E-02 | 6.66E-02 | 3.25E-03 |
| 1,2,4,5-Tetrachlorobenzene | 5 | 100 | 1.04E-02 | - 2.02E-02 | 1.93E-02 | 1.77E-02 | 1.86E-03 |
| 4,4'-DDD | 5 | 100 | 2.52E-02 | - 3.47E-02 | 2.55E-02 | 2.75E-02 | 1.82E-03 |
| 4,4'-DDE | 5 | 80 | ND | - 6.90E-02 | 5.18E-02 | 4.46E-02 | 1.15E-02 |
| 4,4'-DDT | 5 | 100 | 2.92E-03 | - 3.77E-03 | 3.55E-03 | 3.46E-03 | 1.43E-04 |
| Alpha-BHC | 5 | 40 | ND | - 1.14E-03 | 9.51E-04 | 6.76E-04 | 2.20E-04 |
| Beta-BHC | 5 | 80 | ND | - 9.65E-04 | 5.70E-05 | 3.24E-04 | 1.83E-04 |
| Chlorpyrifos | 5 | 100 | 2.53E-04 | - 5.78E-04 | 4.60E-04 | 4.32E-04 | 6.49E-05 |
| Cis-Nonachlor | 5 | 100 | 4.44E-02 | - 5.70E-02 | 5.41E-02 | 5.26E-02 | 2.23E-03 |
| Dieldrin | 5 | 100 | 1.38E-03 | - 3.25E-02 | 2.30E-03 | 8.11E-03 | 6.10E-03 |
| Endosulfan II | 5 | 100 | 9.87E-03 | - 2.09E-02 | 1.68E-02 | 1.59E-02 | 2.16E-03 |
| Endrin | 5 | 20 | ND | - 1.14E-03 | 9.65E-04 | 8.62E-04 | 1.55E-04 |
| Gamma BHC (Lindane) | 5 | 100 | 5.50E-04 | - 9.06E-04 | 7.89E-04 | 7.60E-04 | 5.94E-05 |
| Gamma Chlordane | 5 | 20 | ND | - 1.14E-03 | 9.51E-04 | 8.96E-04 | 1.18E-04 |
| Heptachlor | 5 | 20 | ND | - 1.14E-03 | 9.65E-04 | 8.43E-04 | 1.73E-04 |
| Hexachlorobenzene | 5 | 100 | 3.57E-03 | - 4.71E-03 | 3.74E-03 | 3.91E-03 | 2.07E-04 |
| O,P'-DDD | 5 | 100 | 8.70E-02 | - 1.01E-01 | 9.47E-02 | 9.36E-02 | 2.81E-03 |
| O,P'-DDT | 5 | 100 | 8.35E-02 | - 1.14E-01 | 1.01E-01 | 9.95E-02 | 5.01E-03 |
| Oxychlordane | 5 | 100 | 8.18E-03 | - 1.04E-02 | 9.20E-03 | 9.25E-03 | 3.70E-04 |
| Pentachloroanisole | 5 | 100 | 9.36E-04 | - 1.80E-03 | 1.56E-03 | 1.49E-03 | 1.50E-04 |
| Pentachlorobenzene | 5 | 100 | 2.74E-02 | - 4.15E-02 | 2.88E-02 | 3.13E-02 | 2.60E-03 |
| Trans-Nonachlor | 5 | 100 | 4.25E-03 | - 5.11E-03 | 4.81E-03 | 4.70E-03 | 1.57E-04 |

| | Smallmouth Bass Whole Fish | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 2 | 100 | 1.49E-01 | - 2.57E-01 | 2.03E-01 | 2.03E-01 | 5.41E-02 |
| 1,2,4,5-Tetrachlorobenzene | 2 | 50 | ND | - 2.77E-02 | 1.43E-02 | 1.43E-02 | 1.34E-02 |
| 4,4'-DDD | 2 | 100 | 3.83E-02 | - 1.43E-01 | 9.06E-02 | 9.06E-02 | 5.23E-02 |
| 4,4'-DDE | 2 | 100 | 1.10E-01 | - 1.76E-01 | 1.43E-01 | 1.43E-01 | 3.30E-02 |
| 4,4'-DDT | 2 | 50 | ND | - 2.70E-03 | 1.82E-03 | 1.82E-03 | 8.83E-04 |
| Alpha-BHC | 2 | 100 | 3.50E-05 | - 7.80E-05 | 5.65E-05 | 5.65E-05 | 2.15E-05 |
| Chlorpyrifos | 2 | 100 | 3.05E-04 | - 3.05E-04 | 3.05E-04 | 3.05E-04 | 0.00E+00 |
| Cis-Nonachlor | 2 | 100 | 1.99E-01 | - 3.41E-01 | 2.70E-01 | 2.70E-01 | 7.08E-02 |
| Dieldrin | 2 | 100 | 4.13E-03 | - 5.01E-03 | 4.57E-03 | 4.57E-03 | 4.39E-04 |
| Gamma BHC (Lindane) | 2 | 100 | 4.23E-04 | - 5.51E-04 | 4.87E-04 | 4.87E-04 | 6.40E-05 |
| Gamma Chlordane | 2 | 100 | 3.20E-03 | - 3.71E-03 | 3.45E-03 | 3.45E-03 | 2.54E-04 |
| Heptachlor Epoxide | 2 | 100 | 1.49E-03 | - 1.69E-03 | 1.59E-03 | 1.59E-03 | 9.95E-05 |
| Hexachlorobenzene | 2 | 100 | 6.13E-03 | - 8.69E-03 | 7.41E-03 | 7.41E-03 | 1.28E-03 |
| Mirex | 2 | 100 | 5.29E-04 | - 1.18E-03 | 8.54E-04 | 8.54E-04 | 3.25E-04 |
| O,P'-DDD | 2 | 100 | 2.81E-01 | - 2.95E-01 | 2.88E-01 | 2.88E-01 | 7.39E-03 |
| O,P'-DDE | 2 | 100 | 1.27E-03 | - 1.50E-03 | 1.38E-03 | 1.38E-03 | 1.14E-04 |
| O,P'-DDT | 2 | 100 | 4.05E-01 | - 6.12E-01 | 5.09E-01 | 5.09E-01 | 1.04E-01 |
| Pentachloroanisole | 2 | 100 | 1.46E-03 | - 2.07E-03 | 1.77E-03 | 1.77E-03 | 3.01E-04 |
| Pentachlorobenzene | 2 | 100 | 1.08E-01 | - 1.77E-01 | 1.42E-01 | 1.42E-01 | 3.46E-02 |
| Trans-Nonachlor | 2 | 100 | 4.28E-03 | - 5.91E-03 | 5.09E-03 | 5.09E-03 | 8.14E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | White Sucker Whole Fish | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 46 | 100 | 1.05E-02 | - | 2.01E-01 | 6.41E-02 | 7.87E-02 | 7.68E-03 |
| 1,2,4,5-Tetrachlorobenzene | 46 | 100 | 1.06E-03 | - | 3.92E-01 | 1.28E-02 | 2.20E-02 | 8.30E-03 |
| 4,4'-DDD | 46 | 100 | 1.74E-02 | - | 1.07E-01 | 3.51E-02 | 4.44E-02 | 3.58E-03 |
| 4,4'-DDE | 46 | 100 | 3.31E-02 | - | 3.41E-01 | 7.96E-02 | 1.05E-01 | 1.05E-02 |
| 4,4'-DDT | 46 | 100 | 3.35E-03 | - | 4.73E-02 | 1.30E-02 | 1.52E-02 | 1.54E-03 |
| Aldrin | 46 | 7 | ND | - | 2.01E-03 | 9.47E-04 | 9.72E-04 | 2.62E-05 |
| Alpha-BHC | 46 | 72 | ND | - | 9.98E-04 | 4.00E-04 | 5.21E-04 | 4.66E-05 |
| Alpha-Chlordane | 46 | 67 | ND | - | 2.30E-02 | 2.86E-03 | 3.54E-03 | 5.33E-04 |
| Beta-BHC | 46 | 50 | ND | - | 2.01E-03 | 9.14E-04 | 8.16E-04 | 5.69E-05 |
| Chlorpyrifos | 46 | 70 | ND | - | 2.01E-03 | 7.61E-04 | 6.78E-04 | 6.45E-05 |
| Cis-Nonachlor | 46 | 67 | ND | - | 3.97E-01 | 7.86E-02 | 8.89E-02 | 1.36E-02 |
| Delta-BHC | 46 | 30 | ND | - | 2.29E-02 | 9.76E-04 | 4.96E-03 | 1.01E-03 |
| Dieldrin | 46 | 100 | 1.86E-03 | - | 2.20E-01 | 8.17E-03 | 3.33E-02 | 7.65E-03 |
| Endosulfan II | 46 | 67 | ND | - | 7.25E-02 | 1.28E-02 | 1.38E-02 | 1.95E-03 |
| Endrin | 46 | 87 | ND | - | 5.10E-03 | 1.91E-03 | 2.05E-03 | 1.66E-04 |
| Gamma BHC (Lindane) | 46 | 74 | ND | - | 2.19E-03 | 5.32E-04 | 6.31E-04 | 6.80E-05 |
| Gamma Chlordane | 46 | 100 | 5.42E-04 | - | 9.08E-03 | 2.81E-03 | 3.15E-03 | 2.67E-04 |
| Heptachlor Epoxide | 46 | 67 | ND | - | 1.84E-02 | 1.80E-03 | 3.69E-03 | 5.97E-04 |
| Hexachlorobenzene | 46 | 100 | 1.09E-03 | - | 1.38E-02 | 7.15E-03 | 7.07E-03 | 4.71E-04 |
| Mirex | 46 | 33 | ND | - | 2.37E-03 | 9.45E-04 | 9.37E-04 | 6.30E-05 |
| O,P'-DDD | 46 | 100 | 3.74E-02 | - | 8.02E-01 | 1.92E-01 | 2.63E-01 | 2.80E-02 |
| O,P'-DDE | 46 | 67 | ND | - | 3.23E-02 | 6.17E-03 | 6.23E-03 | 8.44E-04 |
| O,P'-DDT | 46 | 100 | 3.39E-02 | - | 7.39E-01 | 1.86E-01 | 2.34E-01 | 2.26E-02 |
| Oxychlordane | 46 | 100 | 1.16E-03 | - | 3.10E-02 | 6.88E-03 | 8.67E-03 | 1.01E-03 |
| Pentachloroanisole | 46 | 100 | 1.50E-04 | - | 7.46E-03 | 1.76E-03 | 1.96E-03 | 1.91E-04 |
| Pentachlorobenzene | 46 | 100 | 4.57E-03 | - | 1.11E-01 | 4.24E-02 | 5.27E-02 | 4.50E-03 |
| Trans-Nonachlor | 46 | 100 | 2.85E-03 | - | 2.12E-02 | 5.75E-03 | 7.57E-03 | 6.55E-04 |

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 2000**

| Constituent | No. of Samples | Frequency of Detection (%) | Range Minimum | - | Maximum | Median | Arithmetic Mean | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | White Sucker Whole Fish | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 11 | 100 | 1.14E-02 | - | 9.34E-02 | 2.35E-02 | 4.36E-02 | 9.18E-03 |
| 1,2,4,5-Tetrachlorobenzene | 11 | 100 | 2.03E-03 | - | 3.10E-02 | 5.57E-03 | 1.13E-02 | 2.99E-03 |
| 4,4'-DDD | 11 | 100 | 2.45E-02 | - | 7.20E-02 | 5.69E-02 | 5.21E-02 | 5.15E-03 |
| 4,4'-DDE | 11 | 100 | 4.22E-02 | - | 2.36E-01 | 9.27E-02 | 1.03E-01 | 1.63E-02 |
| 4,4'-DDT | 11 | 100 | 1.71E-03 | - | 3.65E-02 | 7.88E-03 | 1.07E-02 | 2.87E-03 |
| Alpha-BHC | 11 | 91 | ND | - | 1.01E-03 | 4.32E-04 | 5.00E-04 | 7.64E-05 |
| Alpha-Chlordane | 11 | 100 | 2.59E-03 | - | 8.94E-03 | 6.30E-03 | 5.68E-03 | 6.53E-04 |
| Cis-Nonachlor | 11 | 100 | 4.58E-02 | - | 2.49E-01 | 1.03E-01 | 1.20E-01 | 1.98E-02 |
| Dieldrin | 11 | 100 | 4.92E-03 | - | 3.24E-02 | 1.49E-02 | 1.50E-02 | 2.38E-03 |
| Endosulfan II | 11 | 100 | 1.44E-02 | - | 7.50E-02 | 3.56E-02 | 4.03E-02 | 5.30E-03 |
| Endrin | 11 | 100 | 1.86E-04 | - | 2.32E-03 | 8.06E-04 | 1.07E-03 | 2.06E-04 |
| Gamma BHC (Lindane) | 11 | 91 | ND | - | 9.73E-04 | 2.63E-04 | 3.07E-04 | 9.12E-05 |
| Gamma Chlordane | 11 | 100 | 3.31E-04 | - | 3.31E-03 | 2.31E-03 | 2.08E-03 | 3.49E-04 |
| Heptachlor Epoxide | 11 | 100 | 6.06E-04 | - | 1.11E-02 | 3.87E-03 | 4.27E-03 | 8.81E-04 |
| Hexachlorobenzene | 11 | 100 | 8.65E-04 | - | 5.52E-02 | 4.69E-03 | 9.34E-03 | 4.64E-03 |
| Mirex | 11 | 9 | ND | - | 2.81E-03 | 9.65E-04 | 1.13E-03 | 1.68E-04 |
| O,P'-DDD | 11 | 100 | 5.12E-02 | - | 6.57E-01 | 2.65E-01 | 2.74E-01 | 5.16E-02 |
| O,P'-DDE | 11 | 100 | 5.12E-03 | - | 2.54E-02 | 1.40E-02 | 1.44E-02 | 1.99E-03 |
| O,P'-DDT | 11 | 100 | 3.33E-02 | - | 4.89E-01 | 1.68E-01 | 1.82E-01 | 3.81E-02 |
| Oxychlordane | 11 | 100 | 4.11E-03 | - | 4.89E-02 | 2.14E-02 | 2.12E-02 | 3.64E-03 |
| Pentachloroanisole | 11 | 100 | 1.91E-04 | - | 2.72E-03 | 7.10E-04 | 9.77E-04 | 2.48E-04 |
| Pentachlorobenzene | 11 | 100 | 7.49E-03 | - | 2.39E-01 | 2.55E-02 | 4.97E-02 | 1.96E-02 |
| Trans-Nonachlor | 11 | 100 | 2.96E-03 | - | 1.41E-02 | 8.11E-03 | 7.69E-03 | 1.04E-03 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| | Yellow Perch Skin-off Fillet | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 50 | 100 | 7.80E-03 | - 7.86E-02 | 1.99E-02 | 2.20E-02 | 1.51E-03 |
| 1,2,4,5-Tetrachlorobenzene | 50 | 96 | ND | - 1.42E-02 | 4.36E-03 | 4.73E-03 | 2.86E-04 |
| 4,4'-DDD | 50 | 100 | 1.07E-03 | - 1.85E-01 | 3.51E-03 | 9.26E-03 | 3.69E-03 |
| 4,4'-DDE | 50 | 98 | ND | - 5.37E-02 | 7.92E-03 | 9.53E-03 | 1.15E-03 |
| 4,4'-DDT | 50 | 86 | ND | - 9.39E-03 | 9.51E-04 | 1.10E-03 | 1.80E-04 |
| Aldrin | 50 | 4 | ND | - 1.58E-03 | 9.75E-04 | 9.61E-04 | 2.79E-05 |
| Alpha-BHC | 50 | 30 | ND | - 1.58E-03 | 9.65E-04 | 7.58E-04 | 5.58E-05 |
| Alpha-Chlordane | 50 | 22 | ND | - 2.13E-03 | 9.75E-04 | 1.01E-03 | 4.93E-05 |
| Beta-BHC | 50 | 14 | ND | - 1.92E-03 | 9.67E-04 | 9.09E-04 | 4.69E-05 |
| Chlorpyrifos | 50 | 28 | ND | - 1.58E-03 | 9.66E-04 | 8.09E-04 | 4.84E-05 |
| Cis-Nonachlor | 50 | 92 | ND | - 7.57E-02 | 1.17E-02 | 1.56E-02 | 1.75E-03 |
| Delta-BHC | 50 | 58 | ND | - 1.12E-02 | 1.25E-03 | 2.83E-03 | 3.79E-04 |
| Dieldrin | 50 | 96 | ND | - 1.33E-02 | 1.52E-03 | 3.39E-03 | 4.82E-04 |
| Endosulfan II | 50 | 88 | ND | - 7.49E-02 | 6.50E-03 | 9.61E-03 | 1.57E-03 |
| Endrin | 50 | 42 | ND | - 1.92E-03 | 9.41E-04 | 6.92E-04 | 6.40E-05 |
| Gamma BHC (Lindane) | 50 | 58 | ND | - 1.92E-03 | 2.21E-04 | 4.60E-04 | 6.89E-05 |
| Gamma Chlordane | 50 | 44 | ND | - 1.58E-03 | 9.41E-04 | 6.65E-04 | 5.68E-05 |
| Heptachlor | 50 | 44 | ND | - 1.92E-03 | 9.37E-04 | 7.32E-04 | 5.65E-05 |
| Heptachlor Epoxide | 50 | 12 | ND | - 1.92E-03 | 9.78E-04 | 1.02E-03 | 3.22E-05 |
| Hexachlorobenzene | 50 | 98 | ND | - 2.79E-03 | 8.47E-04 | 9.19E-04 | 5.69E-05 |
| O,P'-DDD | 50 | 100 | 2.15E-03 | - 1.33E-01 | 1.73E-02 | 2.19E-02 | 2.98E-03 |
| O,P'-DDE | 50 | 48 | ND | - 3.51E-03 | 1.10E-03 | 1.34E-03 | 7.43E-05 |
| O,P'-DDT | 50 | 100 | 2.11E-03 | - 1.75E-01 | 2.02E-02 | 2.67E-02 | 3.83E-03 |
| Oxychlordane | 50 | 30 | ND | - 2.75E-03 | 9.75E-04 | 9.97E-04 | 4.80E-05 |
| Pentachloroanisole | 50 | 100 | 8.10E-05 | - 1.21E-03 | 3.65E-04 | 4.22E-04 | 2.98E-05 |
| Pentachlorobenzene | 50 | 100 | 1.89E-03 | - 2.57E-02 | 1.01E-02 | 1.09E-02 | 6.69E-04 |
| Trans-Nonachlor | 50 | 94 | ND | - 4.72E-03 | 9.41E-04 | 1.09E-03 | 1.03E-04 |

| | Yellow Perch Offal | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 50 | 98 | ND | - 5.65E-01 | 2.58E-01 | 2.77E-01 | 1.69E-02 |
| 1,2,4,5-Tetrachlorobenzene | 50 | 82 | ND | - 1.50E-01 | 4.21E-02 | 4.67E-02 | 4.66E-03 |
| 4,4'-DDD | 50 | 92 | ND | - 4.95E-01 | 5.13E-02 | 6.31E-02 | 9.76E-03 |
| 4,4'-DDE | 50 | 98 | ND | - 3.22E-01 | 1.35E-01 | 1.41E-01 | 8.87E-03 |
| 4,4'-DDT | 50 | 22 | ND | - 6.24E-02 | 9.83E-04 | 5.07E-03 | 1.53E-03 |
| Alpha-BHC | 50 | 50 | ND | - 1.93E-03 | 9.57E-04 | 7.60E-04 | 6.47E-05 |
| Alpha-Chlordane | 50 | 8 | ND | - 2.37E-02 | 9.79E-04 | 2.01E-03 | 5.86E-04 |
| Beta-BHC | 50 | 58 | ND | - 3.45E-03 | 9.80E-04 | 1.07E-03 | 8.28E-05 |
| Chlorpyrifos | 50 | 92 | ND | - 4.75E-03 | 7.42E-04 | 1.02E-03 | 1.16E-04 |
| Cis-Nonachlor | 50 | 86 | ND | - 5.33E-01 | 2.20E-01 | 2.24E-01 | 1.91E-02 |
| Delta-BHC | 50 | 6 | ND | - 2.01E-02 | 9.79E-04 | 1.39E-03 | 3.84E-04 |
| Dieldrin | 50 | 98 | ND | - 1.92E-02 | 5.00E-03 | 5.88E-03 | 5.59E-04 |
| Endosulfan II | 50 | 78 | ND | - 2.80E-01 | 3.38E-02 | 6.04E-02 | 1.03E-02 |
| Endrin | 50 | 36 | ND | - 4.87E-03 | 9.81E-04 | 1.27E-03 | 1.37E-04 |
| Gamma BHC (Lindane) | 50 | 80 | ND | - 3.61E-03 | 1.26E-03 | 1.53E-03 | 1.34E-04 |
| Gamma Chlordane | 50 | 76 | ND | - 1.32E-02 | 1.65E-03 | 2.72E-03 | 3.23E-04 |
| Heptachlor | 50 | 6 | ND | - 4.32E-03 | 9.79E-04 | 1.04E-03 | 6.90E-05 |
| Heptachlor Epoxide | 50 | 30 | ND | - 2.07E-02 | 9.85E-04 | 4.01E-03 | 7.50E-04 |
| Hexachlorobenzene | 50 | 100 | 2.59E-03 | - 1.78E-02 | 8.07E-03 | 8.57E-03 | 3.65E-04 |
| Mirex | 50 | 6 | ND | - 7.24E-03 | 9.78E-04 | 1.08E-03 | 1.27E-04 |
| O,P'-DDD | 50 | 100 | 2.44E-02 | - 6.66E-01 | 3.17E-01 | 3.32E-01 | 1.63E-02 |
| O,P'-DDT | 50 | 100 | 1.43E-02 | - 3.18E+00 | 3.64E-01 | 4.35E-01 | 6.21E-02 |
| Oxychlordane | 50 | 42 | ND | - 2.13E-02 | 9.96E-04 | 6.41E-03 | 9.62E-04 |
| Pentachloroanisole | 50 | 100 | 1.56E-03 | - 9.18E-03 | 4.04E-03 | 4.11E-03 | 1.94E-04 |
| Pentachlorobenzene | 50 | 100 | 3.79E-04 | - 2.76E-01 | 1.08E-01 | 1.20E-01 | 7.83E-03 |
| Trans-Nonachlor | 50 | 100 | 5.12E-03 | - 4.76E-02 | 9.84E-03 | 1.14E-02 | 9.15E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| | Yellow Perch Whole Fish Composite | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 10 | 100 | 1.99E-03 | - 1.27E-01 | 7.09E-02 | 6.30E-02 | 1.36E-02 |
| 1,2,4,5-Tetrachlorobenzene | 10 | 100 | 8.02E-03 | - 2.06E-02 | 1.63E-02 | 1.54E-02 | 1.39E-03 |
| 4,4'-DDD | 10 | 100 | 1.71E-02 | - 3.59E-02 | 2.55E-02 | 2.62E-02 | 1.56E-03 |
| 4,4'-DDE | 10 | 100 | 2.62E-02 | - 8.37E-02 | 3.98E-02 | 4.25E-02 | 5.20E-03 |
| 4,4'-DDT | 10 | 100 | 2.06E-03 | - 1.00E-02 | 3.83E-03 | 4.37E-03 | 7.05E-04 |
| Alpha-BHC | 10 | 80 | ND | - 9.86E-04 | 1.34E-04 | 2.83E-04 | 1.17E-04 |
| Alpha-Chlordane | 10 | 20 | ND | - 1.80E-03 | 9.92E-04 | 1.10E-03 | 9.05E-05 |
| Beta-BHC | 10 | 10 | ND | - 1.42E-03 | 9.77E-04 | 9.38E-04 | 9.38E-05 |
| Chlorpyrifos | 10 | 50 | ND | - 9.67E-04 | 5.31E-04 | 5.37E-04 | 1.11E-04 |
| Cis-Nonachlor | 10 | 100 | 3.74E-02 | - 9.69E-02 | 5.44E-02 | 6.03E-02 | 7.43E-03 |
| Delta-BHC | 10 | 10 | ND | - 1.42E-03 | 9.77E-04 | 8.42E-04 | 1.34E-04 |
| Dieldrin | 10 | 100 | 1.10E-03 | - 4.63E-03 | 2.31E-03 | 2.63E-03 | 3.58E-04 |
| Endosulfan II | 10 | 100 | 8.32E-03 | - 1.51E-02 | 1.22E-02 | 1.17E-02 | 8.86E-04 |
| Endrin | 10 | 20 | ND | - 1.65E-03 | 9.95E-04 | 1.12E-03 | 7.65E-05 |
| Gamma BHC (Lindane) | 10 | 90 | ND | - 1.16E-03 | 7.35E-04 | 6.50E-04 | 1.13E-04 |
| Gamma Chlordane | 10 | 100 | 1.09E-03 | - 3.64E-03 | 2.47E-03 | 2.45E-03 | 2.57E-04 |
| Heptachlor | 10 | 30 | ND | - 1.42E-03 | 9.73E-04 | 8.53E-04 | 1.22E-04 |
| Heptachlor Epoxide | 10 | 50 | ND | - 1.56E-03 | 1.05E-03 | 1.16E-03 | 7.49E-05 |
| Hexachlorobenzene | 10 | 100 | 1.81E-03 | - 6.01E-03 | 4.59E-03 | 4.37E-03 | 3.94E-04 |
| Mirex | 10 | 50 | ND | - 9.94E-04 | 7.04E-04 | 6.48E-04 | 1.09E-04 |
| O,P'-DDD | 10 | 100 | 1.99E-03 | - 1.51E-01 | 8.63E-02 | 8.20E-02 | 1.65E-02 |
| O,P'-DDE | 10 | 50 | ND | - 9.94E-04 | 8.87E-04 | 8.23E-04 | 5.26E-05 |
| O,P'-DDT | 10 | 100 | 5.05E-02 | - 2.01E-01 | 1.30E-01 | 1.20E-01 | 1.50E-02 |
| Oxychlordane | 10 | 50 | ND | - 1.39E-02 | 2.85E-03 | 4.65E-03 | 1.41E-03 |
| Pentachloroanisole | 10 | 100 | 1.01E-03 | - 3.15E-03 | 2.10E-03 | 2.02E-03 | 2.61E-04 |
| Pentachlorobenzene | 10 | 100 | 1.41E-02 | - 6.05E-02 | 3.51E-02 | 3.49E-02 | 4.85E-03 |
| Trans-Nonachlor | 10 | 100 | 2.96E-03 | - 4.95E-03 | 4.11E-03 | 3.89E-03 | 2.12E-04 |

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| | Yellow Perch Skin-off Fillet | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 25 | 100 | 9.32E-04 | - 1.29E-02 | 4.96E-03 | 5.27E-03 | 6.50E-04 |
| 1,2,4,5-Tetrachlorobenzene | 25 | 92 | ND | - 4.31E-03 | 2.09E-03 | 1.99E-03 | 2.17E-04 |
| 4,4'-DDD | 25 | 100 | 2.83E-04 | - 3.52E-03 | 1.57E-03 | 1.60E-03 | 1.85E-04 |
| 4,4'-DDE | 25 | 100 | 9.69E-04 | - 1.64E-02 | 7.67E-03 | 7.69E-03 | 8.88E-04 |
| 4,4'-DDT | 25 | 36 | ND | - 1.65E-03 | 4.24E-04 | 5.61E-04 | 9.35E-05 |
| Aldrin | 25 | 32 | ND | - 1.65E-03 | 9.65E-04 | 8.62E-04 | 7.93E-05 |
| Alpha-BHC | 25 | 32 | ND | - 1.65E-03 | 9.65E-04 | 7.84E-04 | 1.00E-04 |
| Alpha-Chlordane | 25 | 56 | ND | - 1.65E-03 | 8.11E-04 | 7.53E-04 | 8.40E-05 |
| Beta-BHC | 25 | 12 | ND | - 1.65E-03 | 9.80E-04 | 6.19E-04 | 1.06E-04 |
| Chlorpyrifos | 25 | 20 | ND | - 1.65E-03 | 4.80E-05 | 3.86E-04 | 1.06E-04 |
| Cis-Nonachlor | 25 | 100 | 1.29E-03 | - 1.55E-02 | 8.58E-03 | 8.02E-03 | 8.81E-04 |
| Delta-BHC | 25 | 32 | ND | - 1.65E-03 | 9.80E-04 | 8.82E-04 | 9.78E-05 |
| Dieldrin | 25 | 72 | ND | - 1.63E-03 | 7.12E-04 | 7.76E-04 | 6.82E-05 |
| Endosulfan II | 25 | 32 | ND | - 4.35E-03 | 1.13E-03 | 1.86E-03 | 2.44E-04 |
| Endrin | 25 | 12 | ND | - 1.65E-03 | 9.90E-04 | 9.53E-04 | 7.65E-05 |
| Gamma BHC (Lindane) | 25 | 80 | ND | - 2.74E-04 | 9.50E-05 | 9.21E-05 | 1.25E-05 |
| Gamma Chlordane | 25 | 16 | ND | - 1.65E-03 | 9.90E-04 | 9.46E-04 | 7.21E-05 |
| Heptachlor | 25 | 24 | ND | - 1.65E-03 | 9.80E-04 | 8.57E-04 | 9.11E-05 |
| Heptachlor Epoxide | 25 | 24 | ND | - 1.65E-03 | 9.80E-04 | 8.97E-04 | 7.96E-05 |
| Hexachlorobenzene | 25 | 96 | ND | - 1.07E-03 | 5.05E-04 | 4.55E-04 | 6.03E-05 |
| O,P'-DDD | 25 | 100 | 2.88E-03 | - 2.89E-02 | 1.36E-02 | 1.36E-02 | 1.45E-03 |
| O,P'-DDE | 25 | 32 | ND | - 1.65E-03 | 9.65E-04 | 9.36E-04 | 6.38E-05 |
| O,P'-DDT | 25 | 100 | 2.21E-03 | - 2.43E-02 | 1.18E-02 | 1.18E-02 | 1.29E-03 |
| Oxychlordane | 25 | 32 | ND | - 2.79E-03 | 1.06E-03 | 1.22E-03 | 9.46E-05 |
| Pentachloroanisole | 25 | 60 | ND | - 5.54E-04 | 2.06E-04 | 2.19E-04 | 3.12E-05 |

## Table C-32
## Pesticide Data Summary Table for Fish

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Pentachlorobenzene | 25 | 100 | 1.21E-04 - 6.87E-03 | | 3.06E-03 | 2.71E-03 | 3.62E-04 |
| Trans-Nonachlor | 25 | 92 | ND - 1.34E-03 | | 4.84E-04 | 5.51E-04 | 6.41E-05 |

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| | Yellow Perch Offal | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum - Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 25 | 100 | 1.66E-02 - 2.24E-01 | 8.56E-02 | 1.01E-01 | 1.28E-02 |
| 1,2,4,5-Tetrachlorobenzene | 25 | 96 | ND - 6.38E-02 | 2.37E-02 | 2.53E-02 | 3.43E-03 |
| 4,4'-DDD | 25 | 100 | 2.58E-02 - 1.24E-01 | 5.88E-02 | 5.96E-02 | 5.08E-03 |
| 4,4'-DDE | 25 | 100 | 5.95E-02 - 4.99E-01 | 2.47E-01 | 2.59E-01 | 2.61E-02 |
| 4,4'-DDT | 25 | 20 | ND - 4.82E-03 | 9.81E-04 | 1.50E-03 | 2.05E-04 |
| Alpha-BHC | 25 | 68 | ND - 9.95E-04 | 1.77E-04 | 4.49E-04 | 7.84E-05 |
| Alpha-Chlordane | 25 | 24 | ND - 1.28E-02 | 9.88E-04 | 3.08E-03 | 7.65E-04 |
| Beta-BHC | 25 | 60 | ND - 1.71E-03 | 9.75E-04 | 9.47E-04 | 1.01E-04 |
| Chlorpyrifos | 25 | 76 | ND - 9.80E-04 | 5.48E-04 | 5.64E-04 | 5.91E-05 |
| Cis-Nonachlor | 25 | 100 | 7.01E-02 - 4.51E-01 | 2.27E-01 | 2.35E-01 | 2.27E-02 |
| Delta-BHC | 25 | 8 | ND - 1.65E-03 | 9.75E-04 | 9.85E-04 | 6.63E-05 |
| Dieldrin | 25 | 76 | ND - 2.54E-02 | 8.16E-03 | 8.55E-03 | 1.28E-03 |
| Endosulfan II | 25 | 40 | ND - 1.18E-01 | 9.95E-04 | 3.01E-02 | 7.81E-03 |
| Endrin | 25 | 16 | ND - 1.65E-03 | 9.75E-04 | 1.07E-03 | 4.71E-05 |
| Gamma BHC (Lindane) | 25 | 100 | 4.88E-04 - 2.20E-03 | 1.33E-03 | 1.27E-03 | 1.02E-04 |
| Gamma Chlordane | 25 | 52 | ND - 4.45E-03 | 1.51E-03 | 1.57E-03 | 1.74E-04 |
| Heptachlor Epoxide | 25 | 12 | ND - 2.67E-02 | 9.81E-04 | 2.95E-03 | 1.31E-03 |
| Hexachlorobenzene | 25 | 100 | 1.24E-03 - 8.96E-03 | 5.43E-03 | 5.30E-03 | 4.64E-04 |
| O,P'-DDD | 25 | 100 | 1.32E-01 - 8.20E-01 | 3.73E-01 | 4.06E-01 | 3.79E-02 |
| O,P'-DDT | 25 | 100 | 1.42E-01 - 8.39E-01 | 3.75E-01 | 4.06E-01 | 4.00E-02 |
| Oxychlordane | 25 | 32 | ND - 3.35E-02 | 9.90E-04 | 8.35E-03 | 2.30E-03 |
| Pentachloroanisole | 25 | 100 | 6.28E-04 - 5.33E-03 | 2.57E-03 | 2.73E-03 | 2.96E-04 |
| Pentachlorobenzene | 25 | 100 | 7.00E-03 - 1.18E-01 | 4.63E-02 | 4.62E-02 | 5.24E-03 |
| Trans-Nonachlor | 25 | 100 | 4.05E-03 - 1.76E-02 | 9.50E-03 | 8.99E-03 | 6.95E-04 |

| | Yellow Perch Whole Fish Composite | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum - Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 5 | 100 | 2.33E-02 - 4.67E-02 | 3.41E-02 | 3.49E-02 | 3.78E-03 |
| 1,2,4,5-Tetrachlorobenzene | 5 | 100 | 6.47E-03 - 1.13E-02 | 9.60E-03 | 9.34E-03 | 8.03E-04 |
| 4,4'-DDD | 5 | 100 | 1.65E-02 - 2.72E-02 | 2.34E-02 | 2.27E-02 | 1.88E-03 |
| 4,4'-DDE | 5 | 100 | 7.76E-02 - 1.07E-01 | 8.11E-02 | 8.88E-02 | 6.04E-03 |
| 4,4'-DDT | 5 | 100 | 5.31E-04 - 1.65E-03 | 1.16E-03 | 1.05E-03 | 2.13E-04 |
| Alpha-BHC | 5 | 80 | ND - 9.86E-04 | 1.44E-04 | 3.24E-04 | 1.77E-04 |
| Alpha-Chlordane | 5 | 20 | ND - 1.19E-03 | 9.49E-04 | 9.98E-04 | 4.86E-05 |
| Beta-BHC | 5 | 60 | ND - 2.10E-03 | 9.49E-04 | 1.15E-03 | 2.52E-04 |
| Chlorpyrifos | 5 | 40 | ND - 9.85E-04 | 9.44E-04 | 6.45E-04 | 1.92E-04 |
| Cis-Nonachlor | 5 | 100 | 5.82E-02 - 7.08E-02 | 6.09E-02 | 6.23E-02 | 2.32E-03 |
| Delta-BHC | 5 | 100 | 4.64E-03 - 9.27E-03 | 6.55E-03 | 6.77E-03 | 7.77E-04 |
| Dieldrin | 5 | 100 | 1.69E-03 - 3.61E-02 | 3.09E-02 | 2.17E-02 | 7.56E-03 |
| Endosulfan II | 5 | 100 | 9.76E-03 - 2.35E-02 | 1.87E-02 | 1.83E-02 | 2.52E-03 |
| Endrin | 5 | 40 | ND - 1.19E-03 | 9.44E-04 | 9.54E-04 | 6.76E-05 |
| Gamma BHC (Lindane) | 5 | 100 | 6.01E-04 - 1.84E-03 | 1.08E-03 | 1.15E-03 | 2.03E-04 |
| Gamma Chlordane | 5 | 100 | 1.24E-03 - 1.67E-03 | 1.30E-03 | 1.37E-03 | 7.71E-05 |
| Heptachlor Epoxide | 5 | 100 | 1.35E-03 - 1.46E-02 | 1.82E-03 | 6.54E-03 | 3.02E-03 |
| Hexachlorobenzene | 5 | 100 | 1.63E-03 - 2.62E-03 | 2.17E-03 | 2.17E-03 | 1.59E-04 |
| O,P'-DDD | 5 | 100 | 8.47E-02 - 1.42E-01 | 1.19E-01 | 1.16E-01 | 1.07E-02 |
| O,P'-DDE | 5 | 60 | ND - 6.70E-03 | 5.14E-03 | 3.92E-03 | 1.22E-03 |
| O,P'-DDT | 5 | 100 | 8.52E-02 - 1.50E-01 | 1.25E-01 | 1.18E-01 | 1.25E-02 |
| Oxychlordane | 5 | 40 | ND - 1.19E-03 | 9.44E-04 | 8.93E-04 | 9.34E-05 |
| Pentachloroanisole | 5 | 100 | 9.76E-04 - 2.45E-03 | 1.53E-03 | 1.60E-03 | 2.39E-04 |
| Pentachlorobenzene | 5 | 100 | 1.04E-02 - 1.86E-02 | 1.66E-02 | 1.53E-02 | 1.65E-03 |
| Trans-Nonachlor | 5 | 100 | 2.07E-03 - 3.26E-03 | 2.29E-03 | 2.45E-03 | 2.10E-04 |

# Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| | Yellow Perch Skin-off Fillet | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 3.72E-04 | - 9.86E-04 | 6.01E-04 | 6.28E-04 | 8.13E-05 |
| 4,4'-DDD | 6 | 100 | 8.57E-04 | - 6.63E-03 | 1.72E-03 | 2.67E-03 | 8.78E-04 |
| 4,4'-DDE | 6 | 100 | 5.49E-03 | - 4.01E-02 | 9.69E-03 | 1.49E-02 | 5.32E-03 |
| 4,4'-DDT | 6 | 67 | ND | - 9.90E-04 | 6.20E-04 | 6.26E-04 | 1.48E-04 |
| Aldrin | 6 | 17 | ND | - 9.94E-04 | 9.82E-04 | 8.42E-04 | 1.40E-04 |
| Alpha-BHC | 6 | 100 | 9.60E-05 | - 1.84E-04 | 1.47E-04 | 1.40E-04 | 1.49E-05 |
| Alpha-Chlordane | 6 | 33 | ND | - 1.12E-03 | 9.83E-04 | 9.37E-04 | 7.39E-05 |
| Beta-BHC | 6 | 83 | ND | - 9.94E-04 | 3.65E-05 | 2.67E-04 | 1.65E-04 |
| Chlorpyrifos | 6 | 50 | ND | - 9.85E-04 | 1.50E-04 | 3.93E-04 | 1.85E-04 |
| Cis-Nonachlor | 6 | 100 | 3.60E-03 | - 2.49E-02 | 7.12E-03 | 9.57E-03 | 3.22E-03 |
| Delta-BHC | 6 | 33 | ND | - 9.94E-04 | 9.72E-04 | 7.45E-04 | 1.63E-04 |
| Dieldrin | 6 | 83 | ND | - 9.85E-04 | 2.05E-04 | 3.85E-04 | 1.47E-04 |
| Endosulfan II | 6 | 100 | 1.45E-03 | - 7.80E-03 | 3.51E-03 | 3.93E-03 | 9.98E-04 |
| Endrin | 6 | 83 | ND | - 9.94E-04 | 6.05E-05 | 2.15E-04 | 1.56E-04 |
| Gamma BHC (Lindane) | 6 | 100 | 7.00E-05 | - 1.53E-04 | 1.15E-04 | 1.12E-04 | 1.20E-05 |
| Gamma Chlordane | 6 | 100 | 1.06E-04 | - 4.36E-04 | 1.21E-04 | 1.76E-04 | 5.26E-05 |
| Heptachlor | 6 | 17 | ND | - 9.94E-04 | 9.82E-04 | 8.22E-04 | 1.59E-04 |
| Heptachlor Epoxide | 6 | 50 | ND | - 9.94E-04 | 5.54E-04 | 5.42E-04 | 1.99E-04 |
| Hexachlorobenzene | 6 | 67 | ND | - 3.06E-04 | 2.24E-04 | 2.29E-04 | 1.83E-05 |
| Mirex | 6 | 17 | ND | - 9.94E-04 | 9.85E-04 | 8.32E-04 | 1.51E-04 |
| O,P'-DDD | 6 | 100 | 5.04E-03 | - 3.85E-02 | 1.23E-02 | 1.51E-02 | 4.90E-03 |
| O,P'-DDT | 6 | 100 | 7.12E-03 | - 5.41E-02 | 1.30E-02 | 1.91E-02 | 7.23E-03 |
| Oxychlordane | 6 | 67 | ND | - 2.16E-03 | 9.24E-04 | 9.94E-04 | 2.53E-04 |
| Pentachloroanisole | 6 | 33 | ND | - 3.07E-04 | 8.83E-05 | 1.21E-04 | 3.84E-05 |
| Pentachlorobenzene | 6 | 100 | 2.41E-04 | - 6.64E-04 | 3.38E-04 | 4.00E-04 | 7.53E-05 |
| Trans-Nonachlor | 6 | 100 | 2.81E-04 | - 3.13E-03 | 8.82E-04 | 1.27E-03 | 4.12E-04 |

| | Yellow Perch Offal | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 2.09E-03 | - 5.86E-03 | 2.85E-03 | 3.45E-03 | 6.14E-04 |
| 1,2,4,5-Tetrachlorobenzene | 6 | 83 | ND | - 4.49E-03 | 2.33E-03 | 2.50E-03 | 5.19E-04 |
| 4,4'-DDD | 6 | 100 | 3.41E-02 | - 5.55E-01 | 6.22E-02 | 1.41E-01 | 8.33E-02 |
| 4,4'-DDE | 6 | 100 | 8.69E-02 | - 6.31E-01 | 1.69E-01 | 2.37E-01 | 8.21E-02 |
| 4,4'-DDT | 6 | 83 | ND | - 2.35E-02 | 2.10E-03 | 8.45E-03 | 4.41E-03 |
| Alpha-BHC | 6 | 50 | ND | - 9.98E-04 | 7.95E-04 | 7.63E-04 | 1.03E-04 |
| Alpha-Chlordane | 6 | 50 | ND | - 1.06E-02 | 1.35E-03 | 2.87E-03 | 1.55E-03 |
| Beta-BHC | 6 | 67 | ND | - 9.65E-04 | 5.09E-04 | 5.38E-04 | 1.72E-04 |
| Chlorpyrifos | 6 | 67 | ND | - 9.86E-04 | 3.13E-04 | 4.89E-04 | 1.59E-04 |
| Cis-Nonachlor | 6 | 50 | ND | - 1.02E-01 | 3.54E-02 | 4.13E-02 | 1.86E-02 |
| Delta-BHC | 6 | 50 | ND | - 6.68E-03 | 1.31E-03 | 2.16E-03 | 9.16E-04 |
| Dieldrin | 6 | 100 | 6.05E-04 | - 9.47E-03 | 5.21E-03 | 4.85E-03 | 1.45E-03 |
| Endosulfan II | 6 | 67 | ND | - 1.23E-01 | 4.07E-02 | 4.88E-02 | 1.98E-02 |
| Endrin | 6 | 33 | ND | - 1.04E-03 | 9.75E-04 | 8.83E-04 | 1.05E-04 |
| Gamma BHC (Lindane) | 6 | 100 | 3.20E-04 | - 2.25E-03 | 7.22E-04 | 1.02E-03 | 2.92E-04 |
| Gamma Chlordane | 6 | 100 | 4.89E-04 | - 2.16E-03 | 1.32E-03 | 1.32E-03 | 2.21E-04 |
| Hexachlorobenzene | 6 | 100 | 1.48E-03 | - 4.84E-03 | 3.00E-03 | 2.98E-03 | 5.16E-04 |
| Mirex | 6 | 33 | ND | - 2.74E-03 | 9.92E-04 | 1.34E-03 | 2.87E-04 |
| O,P'-DDD | 6 | 100 | 6.59E-02 | - 5.61E-01 | 1.58E-01 | 2.14E-01 | 7.38E-02 |
| O,P'-DDT | 6 | 100 | 7.29E-02 | - 8.47E-01 | 1.89E-01 | 2.88E-01 | 1.16E-01 |
| Pentachloroanisole | 6 | 100 | 8.08E-04 | - 2.04E-03 | 1.38E-03 | 1.37E-03 | 1.77E-04 |
| Pentachlorobenzene | 6 | 100 | 1.14E-03 | - 1.14E-02 | 3.52E-03 | 4.26E-03 | 1.50E-03 |
| Trans-Nonachlor | 6 | 83 | ND | - 1.76E-02 | 9.14E-03 | 9.56E-03 | 2.51E-03 |

## Table C-32
## Pesticide Data Summary Table for Fish

**Sample Location: REACH 8 - HOUSATONIC RIVER - RISING POND**

**Sample Year: 1998**

| | Yellow Perch Whole Fish Composite | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 5 | 100 | 8.00E-04 | - 3.24E-03 | 1.01E-03 | 1.52E-03 | 4.48E-04 |
| 1,2,4,5-Tetrachlorobenzene | 5 | 80 | ND | - 1.57E-03 | 6.74E-04 | 7.63E-04 | 2.38E-04 |
| 4,4'-DDD | 5 | 100 | 7.73E-03 | - 1.54E-02 | 8.62E-03 | 1.01E-02 | 1.42E-03 |
| 4,4'-DDE | 5 | 100 | 2.82E-02 | - 4.02E-02 | 3.23E-02 | 3.38E-02 | 2.18E-03 |
| 4,4'-DDT | 5 | 100 | 3.72E-04 | - 9.80E-04 | 6.08E-04 | 6.15E-04 | 1.09E-04 |
| Aldrin | 5 | 40 | ND | - 9.66E-04 | 9.40E-04 | 6.98E-04 | 1.60E-04 |
| Alpha-BHC | 5 | 100 | 8.10E-05 | - 2.38E-04 | 8.80E-05 | 1.22E-04 | 2.96E-05 |
| Alpha-Chlordane | 5 | 20 | ND | - 1.05E-03 | 9.66E-04 | 9.83E-04 | 1.90E-05 |
| Beta-BHC | 5 | 60 | ND | - 9.80E-04 | 1.17E-04 | 4.38E-04 | 2.18E-04 |
| Chlorpyrifos | 5 | 80 | ND | - 9.66E-04 | 6.90E-05 | 2.83E-04 | 1.76E-04 |
| Cis-Nonachlor | 5 | 100 | 1.49E-02 | - 2.42E-02 | 1.75E-02 | 1.82E-02 | 1.57E-03 |
| Delta-BHC | 5 | 20 | ND | - 9.80E-04 | 9.40E-04 | 5.98E-04 | 2.23E-04 |
| Dieldrin | 5 | 100 | 4.60E-04 | - 1.39E-03 | 6.64E-04 | 8.10E-04 | 1.59E-04 |
| Endosulfan II | 5 | 100 | 2.54E-03 | - 1.35E-02 | 4.65E-03 | 5.87E-03 | 1.96E-03 |
| Endrin | 5 | 40 | ND | - 9.95E-04 | 9.40E-04 | 7.25E-04 | 1.49E-04 |
| Gamma BHC (Lindane) | 5 | 100 | 2.55E-04 | - 5.14E-04 | 3.45E-04 | 3.67E-04 | 4.28E-05 |
| Gamma Chlordane | 5 | 100 | 4.87E-04 | - 8.27E-04 | 5.64E-04 | 6.22E-04 | 6.07E-05 |
| Heptachlor | 5 | 60 | ND | - 9.80E-04 | 2.94E-04 | 4.64E-04 | 2.07E-04 |
| Heptachlor Epoxide | 5 | 100 | 8.24E-04 | - 1.61E-03 | 1.47E-03 | 1.30E-03 | 1.44E-04 |
| Hexachlorobenzene | 5 | 20 | ND | - 3.90E-04 | 2.88E-04 | 3.02E-04 | 3.24E-05 |
| O,P'-DDD | 5 | 100 | 2.94E-02 | - 4.51E-02 | 3.30E-02 | 3.48E-02 | 2.74E-03 |
| O,P'-DDT | 5 | 100 | 3.05E-02 | - 3.52E-02 | 3.47E-02 | 3.34E-02 | 1.02E-03 |
| Oxychlordane | 5 | 100 | 1.61E-03 | - 2.43E-03 | 1.84E-03 | 1.93E-03 | 1.38E-04 |
| Pentachloroanisole | 5 | 100 | 4.41E-04 | - 6.33E-04 | 5.03E-04 | 5.15E-04 | 3.38E-05 |
| Pentachlorobenzene | 5 | 100 | 4.14E-04 | - 5.17E-03 | 5.46E-04 | 1.45E-03 | 9.31E-04 |
| Toxaphene | 5 | 20 | ND | - 1.93E-02 | 9.83E-03 | 1.16E-02 | 1.92E-03 |
| Trans-Nonachlor | 5 | 100 | 2.10E-03 | - 2.74E-03 | 2.60E-03 | 2.49E-03 | 1.18E-04 |

Notes:
1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.
7. -- = Not Applicable.

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Housatonic River - Rest of River
RFI Report

# Table C-33
# Metals Data Summary Table for Fish

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1999**

| Constituent | No. of Samples | Frequency of Detection | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Largemouth Bass Skin-off Fillet** | | | | | | | | |
| Lead | 6 | 33 | ND | - | 8.75E-02 | 7.25E-02 | 7.04E-02 | 6.66E-03 |
| Mercury | 6 | 100 | 3.30E-01 | - | 7.20E-01 | 4.38E-01 | 4.61E-01 | 5.68E-02 |
| **Largemouth Bass Offal** | | | | | | | | |
| Lead | 6 | 33 | ND | - | 8.00E-02 | 3.75E-02 | 5.00E-02 | 9.57E-03 |
| Mercury | 6 | 100 | 1.70E-01 | - | 4.60E-01 | 2.40E-01 | 2.63E-01 | 4.10E-02 |
| Nickel | 6 | 17 | ND | - | 1.50E-01 | 6.00E-02 | 7.17E-02 | 1.60E-02 |

Notes:
1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.

# Table C-34
## PCDD/PCDF Data Summary Table for Frogs

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

| Sample Year: 1998 | Bullfrog (Whole body) | | | | | |
|---|---|---|---|---|---|---|
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | Median | Arithmetic Mean[2,3] | Standard Error |
| 1,2,3,4,6,7,8-HPCDF | 1 | 100 | -- - -- | -- | 3.80E-06 | -- |
| 1,2,3,7,8-PECDF | 1 | 100 | -- - -- | -- | 1.60E-05 | -- |
| 2,3,4,7,8-PECDF | 1 | 100 | -- - -- | -- | 1.10E-05 | -- |
| OCDD | 1 | 100 | -- - -- | -- | 6.50E-06 | -- |
| WHO TEQ(Human/Mammal) | 1 | -- | -- - -- | -- | 1.09E-05 | -- |
| **Sample Year: 1999** | **Bullfrog (Leg)** | | | | | |
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | Median | Arithmetic Mean[2,3] | Standard Error |
| 1,2,3,7,8-PECDF | 2 | 100 | 3.30E-06 - 4.40E-06 | 3.85E-06 | 3.85E-06 | 5.50E-07 |
| 2,3,4,7,8-PECDF | 2 | 100 | 1.50E-06 - 2.00E-06 | 1.75E-06 | 1.75E-06 | 2.50E-07 |
| 2,3,7,8-TCDF | 2 | 100 | 1.90E-06 - 3.50E-06 | 2.70E-06 | 2.70E-06 | 8.00E-07 |
| WHO TEQ(Human/Mammal) | 2 | -- | 4.58E-05 - 4.65E-05 | 4.62E-05 | 4.62E-05 | 3.67E-07 |
| **Sample Year: 1999** | **Bullfrog (Offal)** | | | | | |
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | Median | Arithmetic Mean[2,3] | Standard Error |
| 1,2,3,4,6,7,8-HPCDD | 2 | 50 | ND - 1.50E-06 | NA | 1.25E-06 | 2.50E-07 |
| 1,2,3,4,7,8,9-HPCDF | 2 | 50 | ND - 1.60E-06 | NA | 8.83E-06 | 7.23E-06 |
| 1,2,3,4,7,8-HXCDF | 2 | 100 | 4.70E-06 - 1.34E-05 | 9.05E-06 | 9.05E-06 | 4.35E-06 |
| 2,3,7,8-TCDF | 2 | 100 | 2.00E-05 - 3.45E-05 | 2.73E-05 | 2.73E-05 | 7.25E-06 |
| WHO TEQ(Human/Mammal) | 2 | -- | 3.33E-05 - 3.64E-05 | 3.49E-05 | 3.49E-05 | 1.53E-06 |
| **Sample Year: 2000** | **Wood Frog** | | | | | |
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | Median | Arithmetic Mean[2,3] | Standard Error |
| 2,3,7,8-TCDF | 3 | 67 | ND - 2.81E-05 | 1.27E-05 | 1.49E-05 | 7.06E-06 |
| 1,2,3,7,8-PECDF | 3 | 33 | ND - 8.50E-06 | NA | 8.50E-06 | NA |
| 1,2,3,4,6,7,8-HPCDF | 3 | 67 | ND - 3.02E-05 | 1.81E-05 | 2.04E-05 | 5.15E-06 |
| WHO TEQ(Human/Mammal) | 3 | -- | 4.57E-05 - 9.68E-05 | 4.95E-05 | 6.40E-05 | 1.64E-05 |

# Table C-34
## PCDD/PCDF Data Summary Table for Frogs

**Sample Location: REACH 5C - HOUSATONIC RIVER - ROARING BROOK TO WOODS POND**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Bullfrog (Leg)** | | | | | | | | |
| 1,2,3,4,7,8-HXCDF | 2 | 50 | ND | - | 2.00E-07 | NA | 9.70E-06 | 9.50E-06 |
| 1,2,3,7,8-PECDF | 2 | 50 | ND | - | 8.40E-06 | NA | 4.50E-06 | 3.90E-06 |
| 2,3,4,7,8-PECDF | 2 | 50 | ND | - | 1.40E-06 | NA | 9.00E-07 | 5.00E-07 |
| 2,3,7,8-TCDF | 2 | 100 | 1.70E-06 | - | 3.70E-06 | 2.70E-06 | 2.70E-06 | 1.00E-06 |
| WHO TEQ(Human/Mammal) | 2 | -- | 2.95E-05 | - | 3.86E-05 | 3.40E-05 | 3.40E-05 | 4.52E-06 |
| **Bullfrog (Offal)** | | | | | | | | |
| 1,2,3,7,8-PECDF | 2 | 50 | ND | - | 4.50E-05 | NA | 3.02E-05 | 1.48E-05 |
| 1,2,3,4,7,8-HXCDF | 2 | 100 | 1.60E-06 | - | 8.10E-06 | 4.85E-06 | 4.85E-06 | 3.25E-06 |
| 2,3,7,8-TCDF | 2 | 100 | 2.38E-05 | - | 3.22E-05 | 2.80E-05 | 2.80E-05 | 4.20E-06 |
| WHO TEQ(Human/Mammal) | 2 | -- | 4.19E-05 | - | 4.48E-05 | 4.33E-05 | 4.33E-05 | 1.46E-06 |

**Sample Location: REACH 5D - BACKWATERS UPSTREAM OF WOODS POND**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Bullfrog (Leg)** | | | | | | | | |
| 1,2,3,7,8-PECDF | 2 | 100 | 5.90E-06 | - | 7.50E-06 | 6.70E-06 | 6.70E-06 | 8.00E-07 |
| 2,3,7,8-TCDF | 2 | 100 | 3.00E-06 | - | 3.50E-06 | 3.25E-06 | 3.25E-06 | 2.50E-07 |
| WHO TEQ(Human/Mammal) | 2 | -- | 1.01E-04 | - | 1.09E-04 | 1.05E-04 | 1.05E-04 | 3.69E-06 |
| **Bullfrog (Offal)** | | | | | | | | |
| 1,2,3,4,7,8-HXCDF | 1 | 100 | -- | - | -- | -- | 6.10E-06 | -- |
| 2,3,7,8-TCDF | 1 | 100 | -- | - | -- | -- | 2.70E-05 | -- |
| WHO TEQ(Human/Mammal) | 1 | -- | -- | - | -- | -- | 3.79E-05 | -- |

## Table C-34
## PCDD/PCDF Data Summary Table for Frogs

**Sample Location: REACH 6 - HOUSATONIC RIVER - WOODS POND**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|
| **Bullfrog (Leg)** | | | | | | |
| 1,2,3,4,6,7,8-HPCDF | 3 | 33 | ND - 1.80E-06 | NA | 2.13E-05 | 1.18E-05 |
| 1,2,3,7,8-PECDF | 3 | 33 | ND - 6.10E-06 | NA | 3.06E-05 | 1.23E-05 |
| 2,3,4,7,8-PECDF | 3 | 67 | ND - 3.00E-06 | 2.05E-06 | 1.57E-05 | 1.37E-05 |
| 2,3,7,8-TCDF | 3 | 67 | ND - 4.80E-06 | 4.60E-06 | 5.92E-06 | 1.32E-06 |
| WHO TEQ(Human/Mammal) | 3 | -- | 3.86E-05 - 1.07E-04 | 8.68E-05 | 7.75E-05 | 2.03E-05 |
| **Bullfrog (Offal)** | | | | | | |
| 1,2,3,4,7,8-HXCDF | 3 | 100 | 9.00E-06 - 1.46E-05 | 1.04E-05 | 1.13E-05 | 1.68E-06 |
| 1,2,3,7,8-PECDF | 3 | 67 | ND - 4.98E-05 | 4.74E-05 | 3.58E-05 | 1.17E-05 |
| 2,3,7,8-TCDF | 3 | 100 | 2.67E-05 - 4.12E-05 | 2.79E-05 | 3.19E-05 | 4.65E-06 |
| WHO TEQ(Human/Mammal) | 3 | -- | 3.80E-05 - 4.13E-05 | 3.90E-05 | 3.94E-05 | 9.81E-07 |

**Sample Location: REACH 6A - HOUSATONIC RIVER - WOODS POND (WEST HALF)**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|
| **Bullfrog (Leg)** | | | | | | |
| 1,2,3,7,8-PECDF | 1 | 100 | -- - -- | -- | 1.90E-06 | -- |
| WHO TEQ(Human/Mammal) | 1 | -- | -- - -- | -- | 4.81E-05 | -- |
| **Bullfrog (Offal)** | | | | | | |
| 1,2,3,4,7,8-HXCDF | 1 | 100 | -- - -- | -- | 1.70E-06 | -- |
| 2,3,7,8-TCDF | 1 | 100 | -- - -- | -- | 1.40E-05 | -- |
| WHO TEQ(Human/Mammal) | 1 | -- | -- - -- | -- | 2.93E-05 | -- |

# Table C-34
## PCDD/PCDF Data Summary Table for Frogs

**Sample Location: REACH 6B - HOUSATONIC RIVER - WOODS POND (EAST HALF)**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|
| **Bullfrog (Leg)** | | | | | | |
| 1,2,3,7,8-PECDF | 1 | 100 | -- - -- | -- | 6.40E-06 | -- |
| WHO TEQ(Human/Mammal) | 1 | -- | -- - -- | -- | 5.84E-05 | -- |
| **Bullfrog (Offal)** | | | | | | |
| 1,2,3,4,7,8,9-HPCDF | 1 | 100 | -- - -- | -- | 1.10E-06 | -- |
| 1,2,3,4,7,8-HXCDF | 1 | 100 | -- - -- | -- | 1.00E-05 | -- |
| 2,3,7,8-TCDF | 1 | 100 | -- - -- | -- | 2.40E-05 | -- |
| WHO TEQ(Human/Mammal) | 1 | -- | -- - -- | -- | 3.46E-05 | -- |

Notes:
1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.
7. -- = Not Applicable.

# Table C-35
## Pesticide Data Summary Table for Frogs

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Bullfrog Whole Body | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.00E-02 | -- |
| 4,4'-DDD | 1 | 100 | -- | - | -- | -- | 2.10E-03 | -- |
| 4,4'-DDE | 1 | 100 | -- | - | -- | -- | 5.70E-03 | -- |
| Alpha-BHC | 1 | 100 | -- | - | -- | -- | 2.30E-05 | -- |
| Cis-Nonachlor | 1 | 100 | -- | - | -- | -- | 6.90E-04 | -- |
| Dieldrin | 1 | 100 | -- | - | -- | -- | 9.40E-04 | -- |
| Endosulfan II | 1 | 100 | -- | - | -- | -- | 1.30E-03 | -- |
| Gamma BHC (Lindane) | 1 | 100 | -- | - | -- | -- | 7.40E-05 | -- |
| Gamma Chlordane | 1 | 100 | -- | - | -- | -- | 3.10E-04 | -- |
| Heptachlor epoxide | 1 | 100 | -- | - | -- | -- | 1.90E-04 | -- |
| Hexachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.50E-03 | -- |
| O,P'-DDD | 1 | 100 | -- | - | -- | -- | 1.00E-02 | -- |
| O,P'-DDE | 1 | 100 | -- | - | -- | -- | 1.60E-03 | -- |
| O,P'-DDT | 1 | 100 | -- | - | -- | -- | 2.60E-02 | -- |
| Pentachloroanisole | 1 | 100 | -- | - | -- | -- | 2.70E-04 | -- |
| Pentachlorobenzene | 1 | 100 | -- | - | -- | -- | 6.10E-03 | -- |
| Trans-Nonachlor | 1 | 100 | -- | - | -- | -- | 5.30E-04 | -- |

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Bullfrog Leg | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 3 | 100 | 8.30E-05 | - | 1.57E-03 | 2.92E-04 | 6.47E-04 | 4.64E-04 |
| 1,2,4,5-Tetrachlorobenzene | 3 | 67 | ND | - | 7.51E-04 | 7.49E-04 | 6.06E-04 | 1.42E-04 |
| 4,4'-DDD | 3 | 100 | 1.71E-04 | - | 3.73E-04 | 1.88E-04 | 2.44E-04 | 6.47E-05 |
| 4,4'-DDE | 3 | 100 | 4.85E-04 | - | 1.43E-03 | 9.66E-04 | 9.59E-04 | 2.72E-04 |
| Aldrin | 3 | 67 | ND | - | 1.94E-03 | 1.30E-03 | 1.20E-03 | 3.83E-04 |
| Chlorpyrifos | 3 | 100 | 4.16E-04 | - | 1.22E-03 | 1.16E-03 | 9.32E-04 | 2.59E-04 |
| Cis-Nonachlor | 3 | 33 | ND | - | 2.90E-05 | NA | 6.59E-04 | 3.15E-04 |
| Delta-BHC | 3 | 33 | ND | - | 7.00E-05 | NA | 6.73E-04 | 3.01E-04 |
| Endosulfan II | 3 | 67 | ND | - | 4.10E-04 | 3.20E-04 | 5.34E-04 | 2.19E-04 |
| Heptachlor | 3 | 33 | ND | - | 8.00E-06 | NA | 6.52E-04 | 3.22E-04 |
| Heptachlor epoxide | 3 | 33 | ND | - | 5.70E-04 | NA | 8.40E-04 | 1.34E-04 |
| Hexachlorobenzene | 3 | 33 | ND | - | 4.40E-05 | NA | 6.64E-04 | 3.10E-04 |
| O,P'-DDD | 3 | 100 | 4.05E-04 | - | 6.78E-04 | 6.71E-04 | 5.85E-04 | 8.99E-05 |
| O,P'-DDE | 3 | 100 | 3.80E-05 | - | 8.90E-05 | 6.30E-05 | 6.33E-05 | 1.47E-05 |
| O,P'-DDT | 3 | 100 | 3.05E-03 | - | 6.66E-03 | 3.91E-03 | 4.54E-03 | 1.09E-03 |
| Oxychlordane | 3 | 100 | 1.66E-04 | - | 6.98E-03 | 3.43E-04 | 2.50E-03 | 2.24E-03 |
| Pentachloroanisole | 3 | 67 | ND | - | 3.40E-05 | 3.10E-05 | 2.92E-05 | 2.52E-06 |
| Pentachlorobenzene | 3 | 67 | ND | - | 5.44E-04 | 3.79E-04 | 3.32E-04 | 1.06E-04 |

# Table C-35
## Pesticide Data Summary Table for Frogs

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Bullfrog Offal** | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 3 | 100 | 4.79E-04 | - | 7.86E-03 | 2.68E-03 | 3.67E-03 | 2.19E-03 |
| 1,2,4,5-Tetrachlorobenzene | 3 | 100 | 1.97E-04 | - | 9.10E-04 | 3.94E-04 | 5.00E-04 | 2.13E-04 |
| 4,4'-DDD | 3 | 100 | 2.13E-03 | - | 5.84E-03 | 3.16E-03 | 3.71E-03 | 1.11E-03 |
| 4,4'-DDE | 3 | 100 | 7.05E-03 | - | 1.60E-02 | 1.24E-02 | 1.18E-02 | 2.60E-03 |
| Aldrin | 3 | 67 | ND | - | 1.86E-04 | 1.21E-04 | 3.98E-04 | 2.80E-04 |
| Alpha-BHC | 3 | 100 | 2.23E-04 | - | 3.86E-04 | 2.74E-04 | 2.94E-04 | 4.81E-05 |
| Beta-BHC | 3 | 100 | 1.37E-04 | - | 3.87E-04 | 3.05E-04 | 2.76E-04 | 7.36E-05 |
| Chlorpyrifos | 3 | 33 | ND | - | 1.90E-04 | NA | 7.12E-04 | 2.63E-04 |
| Cis-Nonachlor | 3 | 100 | 1.92E-04 | - | 7.04E-04 | 1.98E-04 | 3.65E-04 | 1.70E-04 |
| Delta-BHC | 3 | 33 | ND | - | 2.80E-04 | NA | 7.52E-04 | 2.36E-04 |
| Dieldrin | 3 | 100 | 4.17E-04 | - | 7.75E-04 | 6.49E-04 | 6.14E-04 | 1.05E-04 |
| Endosulfan II | 3 | 100 | 1.18E-03 | - | 2.86E-03 | 1.65E-03 | 1.90E-03 | 4.99E-04 |
| Endrin | 3 | 67 | ND | - | 1.17E-03 | 7.10E-04 | 7.99E-04 | 2.80E-04 |
| Gamma BHC (Lindane) | 3 | 100 | 2.20E-05 | - | 2.07E-04 | 3.70E-05 | 8.87E-05 | 5.93E-05 |
| Heptachlor | 3 | 33 | ND | - | 1.30E-04 | NA | 7.02E-04 | 2.86E-04 |
| Heptachlor epoxide | 3 | 33 | ND | - | 8.60E-03 | NA | 3.53E-03 | 2.55E-03 |
| Hexachlorobenzene | 3 | 100 | 1.06E-04 | - | 4.11E-04 | 3.58E-04 | 2.92E-04 | 9.41E-05 |
| Mirex | 3 | 100 | 4.10E-05 | - | 1.08E-04 | 5.00E-05 | 6.63E-05 | 2.10E-05 |
| O,P'-DDD | 3 | 100 | 5.42E-03 | - | 8.25E-03 | 7.52E-03 | 7.06E-03 | 8.48E-04 |
| O,P'-DDE | 3 | 100 | 8.00E-06 | - | 1.41E-04 | 5.20E-05 | 6.70E-05 | 3.91E-05 |
| O,P'-DDT | 3 | 100 | 2.75E-02 | - | 4.37E-02 | 3.30E-02 | 3.47E-02 | 4.75E-03 |
| Pentachloroanisole | 3 | 100 | 2.90E-05 | - | 2.57E-04 | 1.01E-04 | 1.29E-04 | 6.73E-05 |
| Pentachlorobenzene | 3 | 100 | 1.73E-03 | - | 3.85E-03 | 2.33E-03 | 2.64E-03 | 6.31E-04 |
| Trans-Nonachlor | 3 | 100 | 1.23E-04 | - | 6.96E-04 | 2.25E-04 | 3.48E-04 | 1.76E-04 |

**Sample Year: 2000**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | **Wood Frog** | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 3 | 67 | ND | - | 2.79E-03 | 2.16E-03 | 1.79E-03 | 7.06E-04 |
| 1,2,4,5-Tetrachlorobenzene | 3 | 33 | ND | - | 6.44E-03 | NA | 6.44E-03 | NA |
| 4,4'-DDD | 3 | 100 | 1.08E-03 | - | 2.76E-02 | 2.68E-03 | 1.05E-02 | 8.60E-03 |
| 4,4'-DDE | 3 | 100 | 4.91E-03 | - | 1.20E-01 | 2.04E-02 | 4.85E-02 | 3.62E-02 |
| 4,4'-DDT | 3 | 100 | 1.19E-03 | - | 3.09E-03 | 3.08E-03 | 2.45E-03 | 6.33E-04 |
| Alpha-BHC | 3 | 33 | ND | - | 2.78E-04 | NA | 2.78E-04 | NA |
| Beta-BHC | 3 | 100 | 7.43E-04 | - | 2.01E-03 | 1.30E-03 | 1.35E-03 | 3.67E-04 |
| Cis-Nonachlor | 3 | 67 | ND | - | 2.78E-03 | 1.81E-03 | 2.08E-03 | 3.50E-04 |
| Endosulfan II | 3 | 67 | ND | - | 5.22E-03 | 4.53E-03 | 3.85E-03 | 1.04E-03 |
| Hexachlorobenzene | 3 | 100 | 1.04E-04 | - | 4.13E-04 | 2.30E-04 | 2.49E-04 | 8.97E-05 |
| O,P'-DDD | 3 | 100 | 1.22E-03 | - | 1.58E-02 | 1.05E-02 | 9.16E-03 | 4.26E-03 |
| O,P'-DDE | 3 | 33 | ND | - | 6.05E-04 | NA | 6.05E-04 | NA |
| O,P'-DDT | 3 | 100 | 1.14E-02 | - | 4.42E-02 | 2.18E-02 | 2.58E-02 | 9.66E-03 |
| Pentachloroanisole | 3 | 100 | 4.03E-04 | - | 4.64E-04 | 4.17E-04 | 4.28E-04 | 1.84E-05 |
| Pentachlorobenzene | 3 | 100 | 7.69E-04 | - | 1.79E-03 | 1.03E-03 | 1.20E-03 | 3.06E-04 |

# Table C-35
## Pesticide Data Summary Table for Frogs

**Sample Location: REACH 5C - HOUSATONIC RIVER - ROARING BROOK TO WOODS POND**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|
| **Bullfrog Leg** | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 1.78E-04 | 1.25E-03 | 7.43E-04 | 7.61E-04 | 1.65E-04 |
| 1,2,4,5-Tetrachlorobenzene | 6 | 67 | ND | 9.94E-04 | 9.20E-04 | 6.46E-04 | 1.56E-04 |
| 4,4'-DDD | 6 | 100 | 8.50E-05 | 7.17E-04 | 1.45E-04 | 2.52E-04 | 9.98E-05 |
| 4,4'-DDE | 6 | 100 | 5.14E-04 | 1.82E-03 | 7.71E-04 | 9.78E-04 | 2.16E-04 |
| Aldrin | 6 | 67 | ND | 2.50E-03 | 1.49E-03 | 1.34E-03 | 2.72E-04 |
| Beta-BHC | 6 | 17 | ND | 1.50E-05 | NA | 8.25E-04 | 1.62E-04 |
| Chlorpyrifos | 6 | 100 | 4.51E-04 | 1.11E-03 | 9.09E-04 | 8.02E-04 | 1.12E-04 |
| Delta-BHC | 6 | 50 | ND | 1.05E-04 | 6.10E-05 | 5.31E-04 | 2.05E-04 |
| Dieldrin | 6 | 33 | ND | 2.10E-05 | 1.80E-05 | 6.63E-04 | 2.04E-04 |
| Endosulfan II | 6 | 67 | ND | 3.70E-04 | 2.69E-04 | 5.08E-04 | 1.57E-04 |
| Gamma BHC (Lindane) | 6 | 17 | ND | 5.90E-05 | NA | 8.32E-04 | 1.55E-04 |
| Heptachlor | 6 | 17 | ND | 8.00E-06 | NA | 8.24E-04 | 1.63E-04 |
| Hexachlorobenzene | 6 | 33 | ND | 7.90E-05 | 6.90E-05 | 6.80E-04 | 1.93E-04 |
| O,P'-DDD | 6 | 100 | 2.99E-04 | 2.07E-03 | 6.94E-04 | 9.18E-04 | 2.65E-04 |
| O,P'-DDE | 6 | 50 | ND | 3.21E-04 | 2.23E-04 | 6.19E-04 | 1.67E-04 |
| O,P'-DDT | 6 | 100 | 2.58E-03 | 8.52E-03 | 3.68E-03 | 4.40E-03 | 8.90E-04 |
| Oxychlordane | 6 | 83 | ND | 4.78E-04 | 2.73E-04 | 3.86E-04 | 1.31E-04 |
| Pentachloroanisole | 6 | 67 | ND | 1.46E-04 | 3.30E-05 | 5.11E-05 | 1.92E-05 |
| Pentachlorobenzene | 6 | 67 | ND | 5.76E-04 | 2.51E-04 | 3.02E-04 | 7.06E-05 |
| **Bullfrog Offal** | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 2.37E-04 | 6.68E-03 | 5.80E-03 | 4.61E-03 | 9.94E-04 |
| 1,2,4,5-Tetrachlorobenzene | 6 | 100 | 2.62E-04 | 1.64E-03 | 1.34E-03 | 1.08E-03 | 2.44E-04 |
| 4,4'-DDD | 6 | 100 | 2.08E-03 | 7.32E-03 | 3.12E-03 | 3.84E-03 | 7.81E-04 |
| 4,4'-DDE | 6 | 100 | 6.38E-03 | 1.62E-02 | 1.04E-02 | 1.12E-02 | 1.47E-03 |
| Aldrin | 6 | 83 | ND | 2.80E-04 | 8.70E-05 | 2.67E-04 | 1.31E-04 |
| Alpha-BHC | 6 | 100 | 3.40E-05 | 2.54E-04 | 1.55E-04 | 1.54E-04 | 3.37E-05 |
| Beta-BHC | 6 | 83 | ND | 1.22E-03 | 3.65E-04 | 6.57E-04 | 1.79E-04 |
| Chlorpyrifos | 6 | 50 | ND | 5.39E-04 | 3.55E-04 | 6.85E-04 | 1.37E-04 |
| Cis-Nonachlor | 6 | 100 | 8.40E-05 | 4.32E-04 | 1.88E-04 | 2.42E-04 | 5.51E-05 |
| Delta-BHC | 6 | 50 | ND | 8.00E-05 | 6.90E-05 | 5.24E-04 | 2.04E-04 |
| Dieldrin | 6 | 100 | 1.24E-04 | 7.32E-04 | 5.04E-04 | 4.80E-04 | 9.55E-05 |
| Endosulfan II | 6 | 100 | 9.20E-04 | 4.35E-03 | 2.14E-03 | 2.31E-03 | 4.67E-04 |
| Endrin | 6 | 67 | ND | 8.52E-04 | 6.43E-04 | 6.92E-04 | 1.26E-04 |
| Gamma BHC (Lindane) | 6 | 83 | ND | 9.00E-05 | 4.30E-05 | 1.98E-04 | 1.39E-04 |
| Heptachlor | 6 | 17 | ND | 5.30E-05 | NA | 8.11E-04 | 1.52E-04 |
| Hexachlorobenzene | 6 | 100 | 1.00E-04 | 5.23E-04 | 3.83E-04 | 3.28E-04 | 7.46E-05 |
| Mirex | 6 | 83 | ND | 1.48E-04 | 7.30E-05 | 2.28E-04 | 1.34E-04 |
| O,P'-DDD | 6 | 100 | 2.79E-03 | 1.67E-02 | 8.61E-03 | 9.53E-03 | 1.97E-03 |
| O,P'-DDE | 6 | 83 | ND | 8.50E-05 | 8.40E-05 | 2.14E-04 | 1.40E-04 |
| O,P'-DDT | 6 | 100 | 2.33E-02 | 5.72E-02 | 3.17E-02 | 3.41E-02 | 4.87E-03 |
| Pentachloroanisole | 6 | 100 | 1.00E-04 | 1.39E-03 | 1.63E-04 | 3.65E-04 | 2.06E-04 |
| Pentachlorobenzene | 6 | 100 | 1.21E-03 | 4.57E-03 | 3.62E-03 | 3.35E-03 | 5.11E-04 |
| Trans-Nonachlor | 6 | 83 | ND | 2.83E-04 | 1.52E-04 | 2.87E-04 | 1.24E-04 |

## Table C-35
## Pesticide Data Summary Table for Frogs

**Sample Location: REACH 5D - HOUSATONIC RIVER - BACKWATERS UPSTREAM OF WOODS POND**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Bullfrog Leg** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 2 | 100 | 5.57E-04 | - | 5.97E-04 | 5.77E-04 | 5.77E-04 | 2.00E-05 |
| 4,4'-DDD | 2 | 100 | 1.33E-04 | - | 1.38E-04 | 1.36E-04 | 1.36E-04 | 2.50E-06 |
| 4,4'-DDE | 2 | 100 | 6.75E-04 | - | 7.66E-04 | 7.21E-04 | 7.21E-04 | 4.55E-05 |
| Chlorpyrifos | 2 | 100 | 5.64E-04 | - | 6.25E-04 | 5.95E-04 | 5.95E-04 | 3.05E-05 |
| Delta-BHC | 2 | 100 | 5.60E-05 | - | 6.20E-05 | 5.90E-05 | 5.90E-05 | 3.00E-06 |
| Hexachlorobenzene | 2 | 100 | 1.09E-04 | - | 1.15E-04 | 1.12E-04 | 1.12E-04 | 3.00E-06 |
| O,P'-DDD | 2 | 100 | 1.27E-03 | - | 1.37E-03 | 1.32E-03 | 1.32E-03 | 5.05E-05 |
| O,P'-DDE | 2 | 100 | 7.10E-05 | - | 9.70E-05 | 8.40E-05 | 8.40E-05 | 1.30E-05 |
| O,P'-DDT | 2 | 100 | 3.12E-03 | - | 3.34E-03 | 3.23E-03 | 3.23E-03 | 1.07E-04 |
| Oxychlordane | 2 | 100 | 1.85E-04 | - | 2.18E-04 | 2.02E-04 | 2.02E-04 | 1.65E-05 |
| **Bullfrog Offal** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 4.20E-03 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.30E-03 | -- |
| 4,4'-DDD | 1 | 100 | -- | - | -- | -- | 2.00E-03 | -- |
| 4,4'-DDE | 1 | 100 | -- | - | -- | -- | 7.00E-03 | -- |
| 4,4'-DDT | 1 | 100 | -- | - | -- | -- | 2.70E-05 | -- |
| Alpha-BHC | 1 | 100 | -- | - | -- | -- | 6.90E-05 | -- |
| Beta-BHC | 1 | 100 | -- | - | -- | -- | 3.60E-04 | -- |
| Chlorpyrifos | 1 | 100 | -- | - | -- | -- | 1.60E-04 | -- |
| Cis-Nonachlor | 1 | 100 | -- | - | -- | -- | 4.60E-04 | -- |
| Delta-BHC | 1 | 100 | -- | - | -- | -- | 5.80E-05 | -- |
| Dieldrin | 1 | 100 | -- | - | -- | -- | 7.60E-03 | -- |
| Endosulfan II | 1 | 100 | -- | - | -- | -- | 3.20E-03 | -- |
| Endrin | 1 | 100 | -- | - | -- | -- | 4.20E-04 | -- |
| Heptachlor | 1 | 100 | -- | - | -- | -- | 1.20E-04 | -- |
| Hexachlorobenzene | 1 | 100 | -- | - | -- | -- | 6.20E-04 | -- |
| O,P'-DDD | 1 | 100 | -- | - | -- | -- | 1.10E-02 | -- |
| O,P'-DDE | 1 | 100 | -- | - | -- | -- | 6.80E-05 | -- |
| O,P'-DDT | 1 | 100 | -- | - | -- | -- | 2.80E-02 | -- |
| Oxychlordane | 1 | 100 | -- | - | -- | -- | 2.10E-03 | -- |
| Pentachloroanisole | 1 | 100 | -- | - | -- | -- | 1.60E-04 | -- |
| Pentachlorobenzene | 1 | 100 | -- | - | -- | -- | 4.50E-03 | -- |

# Table C-35
## Pesticide Data Summary Table for Frogs

**Sample Location: REACH 6 - HOUSATONIC RIVER - WOODS POND**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Bullfrog Leg** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 2.38E-04 | - | 5.81E-04 | 4.50E-04 | 4.44E-04 | 4.86E-05 |
| 1,2,4,5-Tetrachlorobenzene | 6 | 17 | ND | - | 1.50E-03 | NA | 4.38E-04 | 2.14E-04 |
| 4,4'-DDD | 6 | 100 | 8.40E-05 | - | 3.27E-04 | 2.31E-04 | 2.17E-04 | 4.22E-05 |
| 4,4'-DDE | 6 | 100 | 3.22E-04 | - | 1.82E-03 | 8.23E-04 | 9.76E-04 | 2.37E-04 |
| Beta-BHC | 6 | 17 | ND | - | 3.80E-05 | NA | 8.05E-04 | 1.53E-04 |
| Chlorpyrifos | 6 | 100 | 3.68E-04 | - | 5.24E-04 | 4.46E-04 | 4.46E-04 | 2.67E-05 |
| Delta-BHC | 6 | 100 | 3.40E-05 | - | 8.10E-05 | 5.40E-05 | 5.72E-05 | 6.61E-06 |
| Dieldrin | 6 | 67 | ND | - | 4.80E-05 | 2.20E-05 | 3.41E-04 | 1.99E-04 |
| Endosulfan II | 6 | 100 | 1.25E-04 | - | 3.72E-04 | 2.32E-04 | 2.38E-04 | 3.42E-05 |
| Heptachlor | 6 | 50 | ND | - | 1.30E-05 | 1.10E-05 | 4.86E-04 | 2.13E-04 |
| Hexachlorobenzene | 6 | 100 | 3.80E-05 | - | 1.58E-04 | 5.90E-05 | 7.37E-05 | 1.80E-05 |
| O,P'-DDD | 6 | 100 | 5.70E-04 | - | 1.70E-03 | 9.69E-04 | 1.02E-03 | 1.62E-04 |
| O,P'-DDE | 6 | 33 | ND | - | 2.15E-04 | 1.33E-04 | 6.87E-04 | 1.76E-04 |
| O,P'-DDT | 6 | 100 | 1.46E-03 | - | 4.59E-03 | 2.55E-03 | 2.75E-03 | 4.69E-04 |
| Oxychlordane | 6 | 100 | 1.13E-04 | - | 2.28E-03 | 2.64E-04 | 6.67E-04 | 3.41E-04 |
| Pentachloroanisole | 6 | 50 | ND | - | 8.88E-04 | 3.14E-04 | 2.27E-04 | 1.40E-04 |
| Pentachlorobenzene | 6 | 17 | ND | - | 9.50E-04 | NA | 4.53E-04 | 1.04E-04 |
| **Bullfrog Offal** | | | | | | | | |
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 1.37E-03 | - | 6.07E-03 | 3.20E-03 | 3.35E-03 | 7.00E-04 |
| 1,2,4,5-Tetrachlorobenzene | 6 | 100 | 1.05E-03 | - | 1.80E-03 | 1.48E-03 | 1.43E-03 | 1.07E-04 |
| 4,4'-DDD | 6 | 100 | 1.10E-03 | - | 3.37E-03 | 2.30E-03 | 2.33E-03 | 3.73E-04 |
| 4,4'-DDE | 6 | 100 | 4.94E-03 | - | 1.33E-02 | 7.72E-03 | 8.52E-03 | 1.26E-03 |
| 4,4'-DDT | 6 | 17 | ND | - | 5.20E-04 | NA | 8.77E-04 | 7.30E-05 |
| Aldrin | 6 | 100 | 3.60E-05 | - | 1.78E-03 | 9.70E-05 | 3.91E-04 | 2.79E-04 |
| Alpha-BHC | 6 | 67 | ND | - | 3.83E-04 | 2.94E-04 | 5.25E-04 | 1.40E-04 |
| Beta-BHC | 6 | 33 | ND | - | 1.15E-03 | 9.13E-04 | 9.28E-04 | 6.14E-05 |
| Chlorpyrifos | 6 | 100 | 1.59E-04 | - | 1.17E-03 | 3.86E-04 | 5.05E-04 | 1.69E-04 |
| Cis-Nonachlor | 6 | 100 | 6.80E-05 | - | 4.27E-04 | 1.44E-04 | 1.67E-04 | 5.43E-05 |
| Delta-BHC | 6 | 50 | ND | - | 3.58E-04 | 1.94E-04 | 5.82E-04 | 1.55E-04 |
| Dieldrin | 6 | 83 | ND | - | 6.22E-04 | 2.45E-04 | 4.13E-04 | 1.27E-04 |
| Endosulfan II | 6 | 100 | 9.48E-04 | - | 2.32E-03 | 1.60E-03 | 1.70E-03 | 2.14E-04 |
| Endrin | 6 | 50 | ND | - | 8.21E-04 | 6.12E-04 | 7.59E-04 | 1.10E-04 |
| Heptachlor | 6 | 33 | ND | - | 5.81E-04 | 4.05E-04 | 7.59E-04 | 1.21E-04 |
| Heptachlor epoxide | 6 | 17 | ND | - | 7.00E-05 | NA | 7.97E-04 | 1.46E-04 |
| Hexachlorobenzene | 6 | 83 | ND | - | 7.60E-04 | 4.21E-04 | 5.63E-04 | 1.03E-04 |
| Mirex | 6 | 33 | ND | - | 2.88E-04 | 1.58E-04 | 6.86E-04 | 1.70E-04 |
| O,P'-DDD | 6 | 100 | 3.79E-03 | - | 1.31E-02 | 1.03E-02 | 9.67E-03 | 1.36E-03 |
| O,P'-DDE | 6 | 100 | 3.00E-05 | - | 7.43E-04 | 1.37E-04 | 2.64E-04 | 1.09E-04 |
| O,P'-DDT | 6 | 100 | 1.24E-02 | - | 3.01E-02 | 2.81E-02 | 2.52E-02 | 2.74E-03 |
| Oxychlordane | 6 | 33 | ND | - | 1.60E-02 | 9.26E-03 | 3.71E-03 | 2.47E-03 |
| Pentachloroanisole | 6 | 100 | 8.90E-05 | - | 4.21E-03 | 2.38E-04 | 1.14E-03 | 6.79E-04 |
| Pentachlorobenzene | 6 | 100 | 2.15E-03 | - | 4.66E-03 | 3.57E-03 | 3.41E-03 | 4.49E-04 |
| Trans-Nonachlor | 6 | 17 | ND | - | 2.60E-04 | NA | 8.29E-04 | 1.14E-04 |

# Table C-35
## Pesticide Data Summary Table for Frogs

**Sample Location: REACH 6A - HOUSATONIC RIVER - WOODS POND (WEST HALF)**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Bullfrog Leg** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 3 | 100 | 2.18E-04 | - | 2.83E-04 | 2.60E-04 | 2.54E-04 | 1.90E-05 |
| 4,4'-DDD | 3 | 100 | 6.30E-05 | - | 4.27E-04 | 1.40E-04 | 2.10E-04 | 1.11E-04 |
| 4,4'-DDE | 3 | 100 | 2.87E-04 | - | 1.70E-03 | 7.06E-04 | 8.98E-04 | 4.19E-04 |
| Beta-BHC | 3 | 33 | ND | - | 2.50E-05 | NA | 6.70E-04 | 3.22E-04 |
| Chlorpyrifos | 3 | 100 | 3.27E-04 | - | 5.38E-04 | 4.25E-04 | 4.30E-04 | 6.10E-05 |
| Delta-BHC | 3 | 100 | 2.30E-05 | - | 1.04E-04 | 2.90E-05 | 5.20E-05 | 2.61E-05 |
| Dieldrin | 3 | 33 | ND | - | 8.00E-06 | NA | 6.62E-04 | 3.27E-04 |
| Endosulfan II | 3 | 100 | 1.51E-04 | - | 2.08E-04 | 1.76E-04 | 1.78E-04 | 1.65E-05 |
| Heptachlor | 3 | 33 | ND | - | 1.30E-05 | NA | 6.64E-04 | 3.25E-04 |
| Hexachlorobenzene | 3 | 100 | 3.20E-05 | - | 6.50E-05 | 5.70E-05 | 5.13E-05 | 9.94E-06 |
| O,P'-DDD | 3 | 100 | 3.39E-04 | - | 1.02E-03 | 3.50E-04 | 5.69E-04 | 2.24E-04 |
| O,P'-DDE | 3 | 33 | ND | - | 6.00E-05 | NA | 6.79E-04 | 3.10E-04 |
| O,P'-DDT | 3 | 100 | 1.70E-03 | - | 2.84E-03 | 2.55E-03 | 2.36E-03 | 3.42E-04 |
| Oxychlordane | 3 | 100 | 1.37E-04 | - | 5.37E-04 | 2.77E-04 | 3.17E-04 | 1.17E-04 |
| **Bullfrog Offal** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 3 | 100 | 1.14E-03 | - | 2.76E-03 | 1.79E-03 | 1.89E-03 | 4.71E-04 |
| 1,2,4,5-Tetrachlorobenzene | 3 | 100 | 3.27E-04 | - | 1.40E-03 | 5.15E-04 | 7.48E-04 | 3.32E-04 |
| 4,4'-DDD | 3 | 100 | 8.73E-04 | - | 4.30E-03 | 1.94E-03 | 2.37E-03 | 1.01E-03 |
| 4,4'-DDE | 3 | 100 | 2.70E-03 | - | 1.46E-02 | 1.03E-02 | 9.18E-03 | 3.47E-03 |
| Aldrin | 3 | 67 | ND | - | 1.87E-04 | 1.51E-04 | 4.10E-04 | 2.60E-04 |
| Alpha-BHC | 3 | 67 | ND | - | 1.67E-04 | 1.18E-04 | 4.06E-04 | 2.90E-04 |
| Beta-BHC | 3 | 67 | ND | - | 4.69E-04 | 4.24E-04 | 6.10E-04 | 1.88E-04 |
| Chlorpyrifos | 3 | 100 | 2.05E-04 | - | 1.04E-03 | 2.19E-04 | 4.87E-04 | 2.75E-04 |
| Cis-Nonachlor | 3 | 100 | 7.20E-05 | - | 2.83E-04 | 1.07E-04 | 1.54E-04 | 6.53E-05 |
| Delta-BHC | 3 | 67 | ND | - | 1.41E-04 | 9.95E-05 | 3.76E-04 | 2.78E-04 |
| Dieldrin | 3 | 67 | ND | - | 1.20E-04 | 1.15E-04 | 4.04E-04 | 2.89E-04 |
| Endosulfan II | 3 | 100 | 6.45E-04 | - | 3.09E-03 | 1.48E-03 | 1.74E-03 | 7.19E-04 |
| Endrin | 3 | 67 | ND | - | 1.29E-04 | 8.55E-05 | 3.84E-04 | 3.00E-04 |
| Gamma BHC (Lindane) | 3 | 33 | ND | - | 1.60E-05 | NA | 6.43E-04 | 3.14E-04 |
| Hexachlorobenzene | 3 | 100 | 3.16E-04 | - | 3.90E-04 | 3.47E-04 | 3.51E-04 | 2.15E-05 |
| Mirex | 3 | 33 | ND | - | 3.60E-05 | NA | 6.45E-04 | 3.05E-04 |
| O,P'-DDD | 3 | 100 | 3.12E-03 | - | 1.19E-02 | 3.71E-03 | 6.24E-03 | 2.83E-03 |
| O,P'-DDE | 3 | 100 | 8.00E-05 | - | 6.04E-04 | 1.90E-04 | 2.91E-04 | 1.60E-04 |
| O,P'-DDT | 3 | 100 | 1.71E-02 | - | 3.32E-02 | 2.46E-02 | 2.50E-02 | 4.65E-03 |
| Oxychlordane | 3 | 33 | ND | - | 2.20E-03 | NA | 1.35E-03 | 4.25E-04 |
| Pentachloroanisole | 3 | 100 | 9.30E-05 | - | 2.35E-04 | 1.38E-04 | 1.55E-04 | 4.19E-05 |
| Pentachlorobenzene | 3 | 100 | 1.87E-03 | - | 2.62E-03 | 2.32E-03 | 2.27E-03 | 2.18E-04 |
| Trans-Nonachlor | 3 | 33 | ND | - | 3.10E-04 | NA | 7.19E-04 | 2.03E-04 |

# Table C-35
## Pesticide Data Summary Table for Frogs

**Sample Location: REACH 6B - HOUSATONIC RIVER - WOODS POND (EAST HALF)**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Bullfrog Leg** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 5.20E-04 | -- |
| 4,4'-DDD | 1 | 100 | -- | - | -- | -- | 2.20E-04 | -- |
| 4,4'-DDE | 1 | 100 | -- | - | -- | -- | 9.30E-04 | -- |
| Chlorpyrifos | 1 | 100 | -- | - | -- | -- | 4.50E-04 | -- |
| Delta-BHC | 1 | 100 | -- | - | -- | -- | 4.70E-05 | -- |
| Dieldrin | 1 | 100 | -- | - | -- | -- | 3.10E-05 | -- |
| Endosulfan II | 1 | 100 | -- | - | -- | -- | 2.60E-04 | -- |
| Hexachlorobenzene | 1 | 100 | -- | - | -- | -- | 4.40E-05 | -- |
| O,P'-DDD | 1 | 100 | -- | - | -- | -- | 6.40E-04 | -- |
| O,P'-DDT | 1 | 100 | -- | - | -- | -- | 2.40E-03 | -- |
| Oxychlordane | 1 | 100 | -- | - | -- | -- | 2.10E-04 | -- |
| Pentachloroanisole | 1 | 100 | -- | - | -- | -- | 2.10E-04 | -- |
| **Bullfrog Offal** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 5.10E-03 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.60E-03 | -- |
| 4,4'-DDD | 1 | 100 | -- | - | -- | -- | 3.40E-03 | -- |
| 4,4'-DDE | 1 | 100 | -- | - | -- | -- | 1.10E-02 | -- |
| Aldrin | 1 | 100 | -- | - | -- | -- | 9.10E-05 | -- |
| Alpha-BHC | 1 | 100 | -- | - | -- | -- | 2.30E-04 | -- |
| Beta-BHC | 1 | 100 | -- | - | -- | -- | 4.50E-04 | -- |
| Chlorpyrifos | 1 | 100 | -- | - | -- | -- | 3.80E-04 | -- |
| Cis-Nonachlor | 1 | 100 | -- | - | -- | -- | 9.70E-05 | -- |
| Dieldrin | 1 | 100 | -- | - | -- | -- | 2.30E-04 | -- |
| Endosulfan II | 1 | 100 | -- | - | -- | -- | 1.70E-03 | -- |
| Endrin | 1 | 100 | -- | - | -- | -- | 2.30E-04 | -- |
| Hexachlorobenzene | 1 | 100 | -- | - | -- | -- | 4.40E-04 | -- |
| Mirex | 1 | 100 | -- | - | -- | -- | 2.00E-05 | -- |
| O,P'-DDD | 1 | 100 | -- | - | -- | -- | 7.50E-03 | -- |
| O,P'-DDE | 1 | 100 | -- | - | -- | -- | 1.60E-04 | -- |
| O,P'-DDT | 1 | 100 | -- | - | -- | -- | 2.60E-02 | -- |
| Pentachloroanisole | 1 | 100 | -- | - | -- | -- | 1.90E-03 | -- |
| Pentachlorobenzene | 1 | 100 | -- | - | -- | -- | 3.60E-03 | -- |

Notes:

1. EPA collected all samples included in this data summary table.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.
7. -- = Not Applicable.

# Table C-36
# Metals Data Summary Table for Wood Frog

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| Constituent | Wood Frog | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
| Aluminum | 3 | 100 | 18.5 | - | 116 | 92.4 | 75.8 | 29.48 |
| Arsenic | 3 | 100 | 0.160 | - | 0.270 | 0.190 | 0.207 | 0.033 |
| Barium | 3 | 100 | 24.5 | - | 31.1 | 27.0 | 27.6 | 1.93 |
| Cadmium | 3 | 100 | 0.08 | - | 0.32 | 0.130 | 0.177 | 0.073 |
| Chromium | 3 | 100 | 7.40 | - | 21.5 | 8.21 | 12.4 | 4.56 |
| Copper | 3 | 100 | 3.07 | - | 6.22 | 5.52 | 4.94 | 0.95 |
| Iron | 3 | 100 | 141 | - | 299 | 283 | 241 | 49.95 |
| Lead | 3 | 100 | 0.980 | - | 1.28 | 1.04 | 1.10 | 0.092 |
| Magnesium | 3 | 100 | 1137 | - | 1231 | 1171 | 1180 | 27.25 |
| Manganese | 3 | 100 | 19.3 | - | 44.5 | 26.2 | 30.0 | 7.51 |
| Mercury | 3 | 100 | 0.25 | - | 0.650 | 0.270 | 0.390 | 0.13 |
| Nickel | 3 | 33 | ND | - | 1.65 | NA | 1.65 | NA |
| Selenium | 3 | 100 | 1.61 | - | 1.65 | 1.63 | 1.63 | 0.012 |
| Strotinum | 3 | 100 | 8.43 | - | 12.4 | 11.6 | 10.8 | 1.21 |
| Vanadium | 3 | 100 | 0.300 | - | 0.840 | 0.310 | 0.483 | 0.178 |
| Zinc | 3 | 100 | 92.7 | - | 116 | 95.0 | 101 | 7.44 |

Notes:

1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.

# Table C-37
## Polycyclic Aromatic Hydrocarbon (PAH) Data Summary Table for Wood Frog

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| | Wood Frog | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,6,7-Trimethylnaphthalene | 3 | 33 | ND | - | 9.00E-03 | -- | 9.00E-03 | -- |
| 1-Methylnaphthalene | 3 | 67 | ND | - | 2.88E-02 | 3.90E-03 | 1.12E-02 | 8.87E-03 |
| 1-Methylphenanthrene | 3 | 67 | ND | - | 3.03E-02 | 2.90E-03 | 1.12E-02 | 9.59E-03 |
| 2,6-Dimethylnaphthalene | 3 | 33 | ND | - | 1.96E-02 | -- | 1.96E-02 | -- |
| 2-Methylnaphthalene | 3 | 67 | ND | - | 4.65E-02 | 5.20E-03 | 1.77E-02 | 1.45E-02 |
| Acenaphthene | 3 | 33 | ND | - | 1.65E-02 | -- | 1.65E-02 | -- |
| Acenapthylene | 3 | 33 | ND | - | 1.13E-02 | -- | 1.13E-02 | -- |
| Anthracene | 3 | 33 | ND | - | 1.57E-02 | -- | 1.57E-02 | -- |
| Benzo(a)anthracene | 3 | 33 | ND | - | 5.20E-03 | -- | 5.20E-03 | -- |
| Benzo(a)pyrene | 3 | 67 | ND | - | 1.44E-02 | 5.30E-03 | 6.85E-03 | 3.99E-03 |
| Benzo(e)pyrene | 3 | 100 | 9.00E-04 | - | 4.80E-03 | 3.00E-03 | 2.90E-03 | 1.13E-03 |
| Biphenyl (diphenyl) | 3 | 33 | ND | - | 3.52E-02 | -- | 3.52E-02 | -- |
| C1-Chrysenes | 3 | 100 | 9.00E-04 | - | 1.04E-02 | 1.60E-03 | 4.30E-03 | 3.06E-03 |
| C1-Dibenzothiophenes | 3 | 67 | ND | - | 7.70E-03 | 1.10E-03 | 2.97E-03 | 2.38E-03 |
| C1-Fluorenes | 3 | 33 | ND | - | 4.05E-02 | -- | 4.05E-02 | -- |
| C1-Naphthalenes | 3 | 67 | ND | - | 7.53E-02 | 9.10E-03 | 2.88E-02 | 2.33E-02 |
| C1-Phenanthrenes & Anthracenes | 3 | 33 | ND | - | 1.53E-02 | -- | 1.53E-02 | -- |
| C2-Chrysenes | 3 | 33 | ND | - | 1.20E-03 | -- | 1.20E-03 | -- |
| C2-Dibenzothiophenes | 3 | 33 | ND | - | 8.00E-04 | -- | 8.00E-04 | -- |
| C2-Fluorenes | 3 | 33 | ND | - | 8.85E-02 | -- | 8.85E-02 | -- |
| C2-Naphthalenes | 3 | 33 | ND | - | 5.68E-02 | -- | 5.68E-02 | -- |
| C2-Phenanthrenes & Anthracenes | 3 | 33 | ND | - | 4.60E-03 | -- | 4.60E-03 | -- |
| C3-Dibenzothiophenes | 3 | 33 | ND | - | 1.20E-03 | -- | 1.20E-03 | -- |
| C3-Fluorenes | 3 | 33 | ND | - | 2.20E-03 | -- | 2.20E-03 | -- |
| C3-Naphthalenes | 3 | 100 | 1.50E-03 | - | 2.99E-02 | 6.80E-03 | 1.27E-02 | 8.72E-03 |
| C3-Phenanthrenes & Anthracenes | 3 | 67 | ND | - | 1.80E-03 | 1.00E-03 | 9.50E-04 | 5.06E-04 |
| C4-Chrysenes | 3 | 33 | ND | - | 1.60E-03 | -- | 1.60E-03 | -- |
| C4-Naphthalenes | 3 | 33 | ND | - | 9.00E-04 | -- | 9.00E-04 | -- |
| C4-Phenanthrenes & Anthracenes | 3 | 33 | ND | - | 1.20E-03 | -- | 1.20E-03 | -- |
| Dibenzothiophene | 3 | 33 | ND | - | 4.50E-03 | -- | 4.50E-03 | -- |
| Fluoranthene | 3 | 33 | ND | - | 8.10E-03 | -- | 8.10E-03 | -- |
| Fluorene | 3 | 33 | ND | - | 3.20E-02 | -- | 3.20E-02 | -- |
| Naphthalene | 3 | 33 | ND | - | 9.82E-02 | -- | 9.82E-02 | -- |
| Perylene | 3 | 33 | ND | - | 1.47E-02 | -- | 1.47E-02 | -- |
| Phenanthrene | 3 | 33 | ND | - | 3.46E-02 | -- | 3.46E-02 | -- |
| Pyrene | 3 | 33 | ND | - | 7.90E-03 | -- | 7.90E-03 | -- |
| Total PAH | 3 | 67 | ND | - | 2.28E-01 | 2.13E-02 | 8.44E-02 | 7.19E-02 |
| Total PAH (High MW) | 3 | 67 | ND | - | 2.08E-01 | 8.10E-03 | 7.34E-02 | 6.74E-02 |
| Total PAH (Low MW) | 3 | 67 | ND | - | 1.96E-02 | 1.32E-02 | 1.13E-02 | 5.44E-03 |

Notes:
1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. -- = Not Applicable.

# Table C-38
## PCDD/PCDF Data Summary Table for Crayfish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1999**

| | Crayfish | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDD | 12 | 50 | ND | - | 6.30E-06 | 2.35E-06 | 3.46E-06 | 5.18E-07 |
| 1,2,3,4,6,7,8-HPCDF | 12 | 58 | ND | - | 6.90E-06 | 4.50E-06 | 5.31E-06 | 7.32E-07 |
| 1,2,3,4,7,8,9-HPCDF | 12 | 17 | ND | - | 2.20E-06 | 2.05E-06 | 2.97E-06 | 3.98E-07 |
| 1,2,3,4,7,8-HXCDD | 12 | 17 | ND | - | 3.00E-07 | 2.50E-07 | 2.89E-06 | 5.32E-07 |
| 1,2,3,4,7,8-HXCDF | 12 | 25 | ND | - | 1.41E-05 | 8.30E-06 | 4.75E-06 | 1.02E-06 |
| 1,2,3,6,7,8-HXCDD | 12 | 8 | ND | - | 3.00E-07 | NA | 3.06E-06 | 1.34E-06 |
| 1,2,3,6,7,8-HXCDF | 12 | 33 | ND | - | 1.20E-06 | 6.50E-07 | 2.70E-06 | 5.58E-07 |
| 1,2,3,7,8,9-HXCDF | 12 | 8 | ND | - | 9.00E-07 | NA | 3.11E-06 | 4.53E-07 |
| 1,2,3,7,8-PECDD | 12 | 17 | ND | - | 1.00E-06 | 8.00E-07 | 2.63E-06 | 4.91E-07 |
| 1,2,3,7,8-PECDF | 12 | 67 | ND | - | 7.82E-05 | 3.88E-05 | 3.86E-05 | 5.97E-06 |
| 2,3,4,6,7,8-HXCDF | 12 | 25 | ND | - | 4.10E-06 | 2.40E-06 | 3.28E-06 | 4.47E-07 |
| 2,3,4,7,8-PECDF | 12 | 58 | ND | - | 1.59E-05 | 8.40E-06 | 1.09E-05 | 2.36E-06 |
| 2,3,7,8-TCDD | 12 | 8 | ND | - | 6.00E-07 | NA | 6.54E-07 | 8.36E-08 |
| 2,3,7,8-TCDF | 12 | 100 | 1.43E-05 | - | 1.11E-04 | 3.31E-05 | 4.03E-05 | 8.06E-06 |
| OCDD | 12 | 58 | ND | - | 2.71E-05 | 1.29E-05 | 1.16E-05 | 1.95E-06 |
| OCDF | 12 | 50 | ND | - | 5.70E-06 | 3.05E-06 | 4.78E-06 | 9.09E-07 |
| WHO TEQ(Human/Mammal) | 12 | -- | 6.74E-06 | - | 4.25E-05 | 1.43E-05 | 1.71E-05 | 2.70E-06 |

Notes:
1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
3. Units are mg/Kg or ppm.
4. ND = Not Detected.
5. NA = Not Available.
6. -- = Not Applicable.

# Table C-39
# Pesticide Data Summary Table for Crayfish

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1999**

| | Crayfish | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **Range Maximum** | **Median** | **Arithmetic Mean[2]** | **Standard Deviation[2]** |
| 1,2,3,4-Tetrachlorobenzene | 40 | 100 | 5.68E-03 | 1.16E-01 | 1.49E-02 | 2.50E-02 | 2.75E-02 |
| 1,2,4,5-Tetrachlorobenzene | 40 | 75 | ND | 2.49E-02 | 3.10E-03 | 5.20E-03 | 5.60E-03 |
| 4,4'-DDD | 40 | 95 | ND | 2.21E-02 | 3.22E-03 | 4.79E-03 | 4.80E-03 |
| 4,4'-DDE | 40 | 100 | 2.94E-03 | 3.29E-02 | 7.56E-03 | 9.26E-03 | 5.32E-03 |
| 4,4'-DDT | 40 | 43 | ND | 2.07E-03 | 2.92E-04 | 1.54E-03 | 9.99E-04 |
| Aldrin | 40 | 3 | ND | 3.61E-04 | 3.61E-04 | 2.29E-03 | 3.32E-04 |
| Alpha-BHC | 40 | 55 | ND | 9.52E-04 | 4.61E-04 | 1.32E-03 | 9.91E-04 |
| Beta-BHC | 40 | 8 | ND | 1.87E-04 | 1.24E-04 | 2.18E-03 | 5.99E-04 |
| Chlorpyrifos | 40 | 28 | ND | 7.88E-03 | 2.92E-03 | 2.62E-03 | 1.21E-03 |
| Cis-Nonachlor | 40 | 100 | 5.61E-03 | 9.27E-02 | 1.41E-02 | 2.23E-02 | 1.96E-02 |
| Delta-BHC | 40 | 13 | NE | 5.76E-04 | 2.26E-04 | 2.09E-03 | 6.96E-04 |
| Dieldrin | 40 | 100 | 1.40E-04 | 4.21E-03 | 1.04E-03 | 1.29E-03 | 9.36E-04 |
| Endosulfan II | 40 | 93 | ND | 7.56E-02 | 7.86E-03 | 1.48E-02 | 1.88E-02 |
| Endrin | 40 | 15 | ND | 6.91E-04 | 1.64E-04 | 2.04E-03 | 7.82E-04 |
| Gamma Chlordane | 40 | 23 | ND | 2.64E-04 | 5.40E-05 | 1.83E-03 | 9.56E-04 |
| Heptachlor | 40 | 30 | ND | 5.25E-04 | 1.19E-04 | 1.69E-03 | 1.02E-03 |
| Hexachlorobenzene | 40 | 98 | ND | 4.40E-03 | 7.56E-04 | 1.13E-03 | 1.04E-03 |
| Mirex | 40 | 8 | ND | 1.24E-04 | 7.60E-05 | 2.18E-03 | 6.14E-04 |
| O,P'-DDD | 40 | 100 | 6.08E-03 | 7.82E-02 | 1.63E-02 | 2.51E-02 | 1.67E-02 |
| O,P'-DDE | 40 | 53 | ND | 8.20E-03 | 1.06E-03 | 2.07E-03 | 1.32E-03 |
| O,P'-DDT | 40 | 100 | 9.51E-03 | 1.31E-01 | 2.77E-02 | 4.00E-02 | 2.70E-02 |
| Pentachloroanisole | 40 | 73 | ND | 5.46E-04 | 2.23E-04 | 2.57E-04 | 3.49E-04 |
| Pentachlorobenzene | 40 | 98 | ND | 6.11E-02 | 8.99E-03 | 1.38E-02 | 1.29E-02 |
| Trans-Nonachlor | 40 | 100 | 4.69E-04 | 3.62E-03 | 1.01E-03 | 2.35E-02 | 1.09E-03 |

Notes:
1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
3. Units are mg/Kg or ppm.
4. ND = Not Detected.

# Table C-40
## PCDD/PCDF Data Summary Table for Benthic Invertebrates (Stonefly)

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1999**

| | Stonefly | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDF | 3 | 67 | ND | - 2.22E-05 | 1.76E-05 | 2.41E-05 | 6.99E-06 |
| 1,2,3,7,8-PECDF | 3 | 33 | ND | - 5.40E-05 | NA | 3.90E-05 | 7.89E-06 |
| WHO TEQ(Human/Mammal) | 3 | -- | 6.64E-05 | - 2.71E-04 | 9.26E-05 | 1.43E-04 | 6.42E-05 |

Notes:

1. EPA collected all samples included in this data summary table. All samples were 20-gram composites.
2. For sampling years with only one sample, the data represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.
7. -- = Not Applicable.

# Table C-41
## Pesticide Data Summary Table for Benthic Invertebrates (Stonefly)

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1999**

| | Stonefly | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 8 | 100 | 2.44E-03 | 8.54E-02 | 2.97E-02 | 3.71E-02 | 1.19E-02 |
| 1,2,4,5-Tetrachlorobenzene | 8 | 75 | ND | 8.28E-02 | 1.55E-02 | 2.28E-02 | 1.05E-02 |
| 4,4'-DDD | 8 | 100 | 9.06E-04 | 1.07E-02 | 6.16E-03 | 5.79E-03 | 1.48E-03 |
| 4,4'-DDE | 8 | 100 | 2.09E-03 | 3.55E-02 | 1.02E-02 | 1.36E-02 | 4.07E-03 |
| 4,4'-DDT | 8 | 50 | ND | 4.88E-03 | 1.90E-03 | 3.40E-03 | 1.12E-03 |
| Alpha-BHC | 8 | 63 | ND | 4.48E-03 | 1.52E-03 | 2.44E-03 | 5.76E-04 |
| Cis-Nonachlor | 8 | 63 | ND | 8.25E-02 | 4.59E-02 | 3.01E-02 | 1.03E-02 |
| Delta-BHC | 8 | 13 | ND | 5.08E-04 | NA | 4.92E-03 | 1.30E-03 |
| Dieldrin | 8 | 100 | 9.90E-05 | 4.33E-03 | 1.18E-03 | 1.77E-03 | 5.95E-04 |
| Endosulfan II | 8 | 88 | ND | 2.58E-02 | 1.01E-02 | 9.69E-03 | 2.76E-03 |
| Gamma Chlordane | 8 | 13 | ND | 5.50E-05 | NA | 5.38E-03 | 1.23E-03 |
| Heptachlor | 8 | 25 | ND | 1.24E-03 | 8.48E-04 | 4.68E-03 | 1.40E-03 |
| Heptachlor epoxide | 8 | 25 | ND | 1.48E-02 | 1.10E-02 | 7.36E-03 | 1.49E-03 |
| Hexachlorobenzene | 8 | 88 | ND | 4.55E-03 | 1.39E-03 | 1.74E-03 | 5.16E-04 |
| O,P'-DDD | 8 | 100 | 6.91E-03 | 1.55E-01 | 2.97E-02 | 4.99E-02 | 1.79E-02 |
| O,P'-DDE | 8 | 63 | ND | 1.09E-02 | 2.27E-03 | 3.27E-03 | 8.86E-04 |
| O,P'-DDT | 8 | 100 | 6.69E-03 | 1.92E-01 | 5.18E-02 | 6.69E-02 | 2.23E-02 |
| Pentachloroanisole | 8 | 100 | 5.14E-04 | 3.20E-03 | 1.34E-03 | 1.45E-03 | 2.88E-04 |
| Pentachlorobenzene | 8 | 100 | 1.13E-03 | 4.82E-02 | 1.65E-02 | 2.01E-02 | 6.64E-03 |
| Trans-Nonachlor | 8 | 13 | ND | 4.10E-04 | NA | 5.42E-03 | 1.21E-03 |

Notes:
1. EPA collected all samples included in this data summary table. Samples were 20-gram composites.
2. For sampling years with only one sample, the data represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.

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## Table C-42
## PCDD/PCDF Data Summary Table for Earthworms

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| | Earthworm Composites | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **- Maximum** | **Median** | **Arithmetic Mean[2]** | **Standard Error** |
| OCDD | 3 | 67 | ND | - 1.80E-04 | 5.77E-05 | 8.28E-05 | 5.02E-05 |
| WHO TEQ(Human/Mammal) | 3 | -- | 1.45E-05 | - 4.02E-05 | 2.75E-05 | 2.74E-05 | 7.43E-06 |

Notes:
1. EPA collected all samples included in this data summary table. Samples are whole-body composites.
2. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
3. Units are mg/Kg or ppm.
4. ND = Not Detected.
4. -- = Not Applicable.

# Table C-43
## Pesticide Data Summary Table for Earthworm

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| | Earthworm Composites | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 30 | 93 | ND | - | 7.72E-03 | 3.38E-03 | 3.48E-03 | 3.78E-04 |
| 1,2,4,5-Tetrachlorobenzene | 30 | 97 | ND | - | 2.19E-02 | 2.90E-03 | 7.14E-03 | 1.17E-03 |
| 4,4'-DDD | 30 | 97 | ND | - | 6.65E-03 | 2.30E-03 | 2.40E-03 | 3.09E-04 |
| 4,4'-DDE | 30 | 100 | 2.43E-03 | - | 1.63E-02 | 7.13E-03 | 7.45E-03 | 5.63E-04 |
| 4,4'-DDT | 30 | 100 | 3.41E-04 | - | 2.35E-02 | 1.08E-02 | 1.03E-02 | 1.47E-03 |
| Aldrin | 30 | 60 | ND | - | 4.90E-03 | 3.88E-03 | 3.02E-03 | 3.11E-04 |
| Alpha-BHC | 30 | 80 | ND | - | 2.27E-03 | 3.21E-04 | 5.35E-04 | 1.11E-04 |
| Alpha-Chlordane | 30 | 3 | ND | - | 3.16E-04 | NA | NA | NA |
| Beta-BHC | 30 | 17 | ND | - | 2.56E-03 | 4.10E-03 | 3.70E-03 | 2.33E-04 |
| Chlorpyrifos | 30 | 20 | ND | - | 1.57E-02 | 4.42E-03 | 5.11E-03 | 5.20E-04 |
| Cis-Nonachlor | 30 | 100 | 3.66E-04 | - | 5.88E-02 | 3.48E-02 | 2.85E-02 | 4.05E-03 |
| Delta-BHC | 30 | 47 | ND | - | 4.90E-03 | 3.47E-03 | 3.01E-03 | 2.77E-04 |
| Dieldrin | 30 | 93 | ND | - | 4.39E-03 | 1.79E-03 | 1.88E-03 | 1.66E-04 |
| Endosulfan II | 30 | 100 | 8.89E-04 | - | 1.98E-02 | 5.83E-03 | 7.42E-03 | 1.07E-03 |
| Endrin | 30 | 90 | ND | - | 9.56E-03 | 4.49E-03 | 4.81E-03 | 3.82E-04 |
| Gamma BHC (Lindane) | 30 | 17 | ND | - | 4.90E-03 | 4.27E-03 | 3.78E-03 | 2.44E-04 |
| Gamma-Chlordane | 30 | 30 | ND | - | 4.85E-03 | 3.83E-03 | 3.20E-03 | 2.77E-04 |
| Heptachlor | 30 | 43 | ND | - | 4.90E-03 | 3.86E-03 | 3.35E-03 | 2.47E-04 |
| Heptachlor Epoxide | 30 | 37 | ND | - | 4.85E-03 | 3.76E-03 | 2.74E-03 | 3.46E-04 |
| Hexachlorobenzene | 30 | 87 | ND | - | 4.46E-03 | 1.32E-03 | 1.60E-03 | 2.37E-04 |
| Mirex | 30 | 7 | ND | - | 1.53E-04 | 4.35E-03 | 3.96E-03 | 2.09E-04 |
| O,P'-DDD | 30 | 100 | 1.76E-03 | - | 6.92E-02 | 3.90E-02 | 3.22E-02 | 3.96E-03 |
| O,P'-DDE | 30 | 97 | ND | - | 1.16E-02 | 5.89E-04 | 1.75E-03 | 4.52E-04 |
| O,P'-DDT | 30 | 100 | 4.20E-03 | - | 9.30E-02 | 5.88E-02 | 4.86E-02 | 5.91E-03 |
| Oxychlordane | 30 | 70 | ND | - | 5.43E-03 | 1.05E-03 | 2.09E-03 | 3.41E-04 |
| Pentachloroanisole | 30 | 87 | ND | - | 5.01E-03 | 3.21E-04 | 1.31E-03 | 3.18E-04 |
| Pentachlorobenzene | 30 | 97 | 1.50E-04 | - | 3.52E-02 | 8.76E-04 | 2.87E-03 | 1.15E-03 |
| Trans-Nonachlor | 30 | 63 | ND | - | 4.46E-03 | 8.76E-04 | 1.94E-03 | 3.00E-04 |

Notes:

1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.

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# Table C-44
# PCDD/PCDF Data Summary Table for Zooplankton

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| | Zooplankton | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Concentrations in pg/L | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2]** | **Standard Error** |
| 1,2,3,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 58.5 | -- |
| 1,2,3,4,7,8,9-HPCDF | 1 | 100 | -- | - | -- | -- | 307 | -- |
| WHO TEQ (Human/Mammal) | 1 | -- | -- | - | -- | -- | 283 | -- |

Notes:

1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are picograms per liter (pg/L).
5. -- = Not Applicable.

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RFI Report

# Table C-45
# Pesticide Data Summary Table for Zooplankton

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| Constituent | Zooplankton Concentrations in ng/L | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
| 1,2,3,4-Tetrachlorobenzene | 4 | 100 | 4.99 | - | 22.2 | 14.5 | 14.0 | 4.16 |
| 1,2,4,5-Tetrachlorobenzene | 4 | 100 | 18.3 | - | 29.4 | 23.7 | 23.8 | 2.29 |
| 4,4'-DDD | 4 | 100 | 1.61 | - | 14.1 | 5.37 | 6.62 | 2.80 |
| 4,4'-DDE | 4 | 100 | 7.41 | - | 20.4 | 12.4 | 13.2 | 2.75 |
| 4,4'-DDT | 4 | 75 | ND | - | 9.90 | 9.49 | 7.58 | 2.05 |
| Alpha-BHC | 4 | 50 | ND | - | 1.07 | 5.53 | 8.55 | 5.21 |
| CIS-Nonachlor | 4 | 100 | 13.4 | - | 86.9 | 19.2 | 34.7 | 17.49 |
| Delta-BHC | 4 | 50 | ND | - | 7.50 | 8.30 | 9.94 | 4.66 |
| Dieldrin | 4 | 100 | 4.34 | - | 11.7 | 8.90 | 8.45 | 1.63 |
| Endosulfan II | 4 | 25 | ND | - | 18.0 | 9.55 | 11.4 | 2.25 |
| Gamma-Chlordane | 4 | 25 | ND | - | 5.84 | 8.71 | 11.5 | 3.81 |
| Hexachlorobenzene | 4 | 75 | ND | - | 14.6 | 4.91 | 6.13 | 3.48 |
| O,P'-DDD | 4 | 100 | 14.5 | - | 39.2 | 26.3 | 26.6 | 5.12 |
| O,P'-DDE | 4 | 75 | ND | - | 5.74 | 4.87 | 5.12 | 1.93 |
| O,P'-DDT | 4 | 100 | 16.8 | - | 74.0 | 28.5 | 37.0 | 12.69 |
| Oxychlordane | 4 | 25 | ND | - | 3.92 | 8.71 | 7.84 | 1.35 |
| Pentachloroanisole | 4 | 100 | 1.09 | - | 1.68 | 1.23 | 1.31 | 0.13 |
| Pentachlorobenzene | 4 | 100 | 1.91 | - | 59.8 | 5.91 | 18.4 | 13.90 |

**Sample Location - REACH 6 - HOUSATONIC RIVER - WOODS POND**

**Sample Year: 2000**

| Constituent | Zooplankton Concentrations in ng/L | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 3.94 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 12.2 | -- |
| 4,4'-DDD | 1 | 100 | -- | - | -- | -- | 2.07 | -- |
| 4,4'-DDE | 1 | 100 | -- | - | -- | -- | 8.75 | -- |
| Alpha-BHC | 1 | 100 | -- | - | -- | -- | 1.58 | -- |
| CIS-Nonachlor | 1 | 100 | -- | - | -- | -- | 9.87 | -- |
| Dieldrin | 1 | 100 | -- | - | -- | -- | 3.86 | -- |
| Hexachlorobenzene | 1 | 100 | -- | - | -- | -- | 0.400 | -- |
| O,P'-DDD | 1 | 100 | -- | - | -- | -- | 14.1 | -- |
| O,P'-DDE | 1 | 100 | -- | - | -- | -- | 8.88 | -- |
| O,P'-DDT | 1 | 100 | -- | - | -- | -- | 14.2 | -- |
| Pentachloroanisole | 1 | 100 | -- | - | -- | -- | 1.76 | -- |
| Pentachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.90 | -- |

Notes:
1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. -- = Not Applicable.

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# Table C-46
## PCDD/PCDF Data Summary Table for Aquatic Vegetation (Periphyton, Algae, and Aquatic Macrophytes)

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| | Filamentous Algae | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Concentrations in mg/kg | | | | | | | |
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2] | Standard Error |
| 2,3,7,8-TCDF | 2 | 50 | ND | - | 1.39E-05 | NA | 8.58E-06 | NA |
| OCDD | 2 | 100 | 7.68E-05 | - | 8.01E-05 | 7.85E-05 | 7.85E-05 | 1.65E-06 |
| 2,3,4,7,8-PECDF | 2 | 50 | ND | - | 1.31E-05 | NA | 1.47E-05 | NA |
| 1,2,3,4,6,7,8-HPCDF | 2 | 100 | 1.11E-05 | - | 1.12E-05 | 1.12E-05 | 1.12E-05 | 5.00E-08 |
| 1,2,3,4,6,7,8-HPCDD | 2 | 100 | 1.29E-05 | - | 1.31E-05 | 1.30E-05 | 1.30E-05 | 1.00E-07 |
| TEQs | 2 | -- | 3.55E-05 | - | 4.06E-05 | 3.80E-05 | 3.80E-05 | 2.55E-06 |

| | Macrophyte | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Concentrations in mg/kg | | | | | | | |
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2] | Standard Error |
| 2,3,7,8-TCDF | 2 | 100 | 1.11E-05 | - | 2.92E-05 | 2.02E-05 | 2.02E-05 | 9.05E-06 |
| 1,2,3,4,7,8-HXCDD | 2 | 50 | ND | - | 4.40E-06 | 9.88E-06 | 9.88E-06 | 5.48E-06 |
| OCDF | 2 | 50 | ND | - | 2.73E-05 | 2.90E-05 | 2.90E-05 | 1.68E-06 |
| OCDD | 2 | 100 | 8.84E-05 | - | 1.94E-04 | 1.41E-04 | 1.41E-04 | 5.26E-05 |
| 1,2,3,7,8-PECDF | 2 | 50 | ND | - | 2.10E-05 | 1.82E-05 | 1.82E-05 | 2.83E-06 |
| 2,3,4,7,8-PECDF | 2 | 50 | ND | - | 2.75E-05 | 1.81E-05 | 1.81E-05 | 9.40E-06 |
| 1,2,3,4,7,8-HXCDF | 2 | 50 | ND | - | 1.27E-05 | 1.40E-05 | 1.40E-05 | 1.33E-06 |
| 1,2,3,6,7,8-HXCDF | 2 | 50 | ND | - | 1.02E-05 | 1.28E-05 | 1.28E-05 | 2.58E-06 |
| 2,3,4,6,7,8-HXCDF | 2 | 50 | ND | - | 1.18E-05 | 1.36E-05 | 1.36E-05 | 1.78E-06 |
| 1,2,3,4,6,7,8-HPCDD | 2 | 50 | ND | - | 3.33E-05 | 2.43E-05 | 2.43E-05 | 8.98E-06 |
| TEQs | 2 | -- | 3.58E-05 | - | 4.38E-05 | 3.98E-05 | 3.98E-05 | 3.95536E-06 |

| | Periphyton (from macrophyte) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Concentrations in mg/kg | | | | | | | |
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2] | Standard Error |
| 2,3,7,8-TCDF | 1 | 100 | -- | - | -- | -- | 8.49E-04 | -- |
| 1,2,3,7,8,9-HXCDD | 1 | 100 | -- | - | -- | -- | 4.15E-05 | -- |
| 1,2,3,6,7,8-HXCDD | 1 | 100 | -- | - | -- | -- | 5.91E-05 | -- |
| 1,2,3,4,7,8-HXCDD | 1 | 100 | -- | - | -- | -- | 2.23E-05 | -- |
| OCDF | 1 | 100 | -- | - | -- | -- | 5.48E-04 | -- |
| OCDD | 1 | 100 | -- | - | -- | -- | 6.24E-03 | -- |
| 1,2,3,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 3.42E-04 | -- |
| 2,3,4,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 5.52E-04 | -- |
| 1,2,3,4,7,8-HXCDF | 1 | 100 | -- | - | -- | -- | 2.18E-04 | -- |
| 1,2,3,6,7,8-HXCDF | 1 | 100 | -- | - | -- | -- | 1.84E-04 | -- |
| 2,3,4,6,7,8-HXCDF | 1 | 100 | -- | - | -- | -- | 1.88E-04 | -- |
| 1,2,3,4,6,7,8-HPCDF | 1 | 100 | -- | - | -- | -- | 5.68E-04 | -- |
| 1,2,3,4,7,8,9-HPCDF | 1 | 100 | -- | - | -- | -- | 3.34E-05 | -- |
| 1,2,3,4,6,7,8-HPCDD | 1 | 100 | -- | - | -- | -- | 1.00E-03 | -- |
| TEQs | 1 | -- | -- | - | -- | -- | 4.76E-04 | -- |

# Table C-46
## PCDD/PCDF Data Summary Table for Aquatic Vegetation (Periphyton, Algae, and Aquatic Macrophytes)

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| | Periphyton (substrate) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Concentrations in mg/kg | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2]** | **Standard Error** |
| 2,3,7,8-TCDF | 1 | 100 | -- | - | -- | -- | 3.90E-04 | -- |
| 1,2,3,7,8,9-HXCDD | 1 | 100 | -- | - | -- | -- | 2.32E-05 | -- |
| 1,2,3,4,7,8-HXCDD | 1 | 100 | -- | - | -- | -- | 1.27E-05 | -- |
| 1,2,3,6,7,8-HXCDD | 1 | 100 | -- | - | -- | -- | 3.37E-05 | -- |
| OCDF | 1 | 100 | -- | - | -- | -- | 3.80E-04 | -- |
| OCDD | 1 | 100 | -- | - | -- | -- | 4.40E-03 | -- |
| 1,2,3,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 3.29E-04 | -- |
| 2,3,4,7,8-PECDF | 1 | 100 | -- | - | -- | -- | 3.42E-04 | -- |
| 1,2,3,6,7,8-HXCDF | 1 | 100 | -- | - | -- | -- | 1.19E-04 | -- |
| 1,2,3,4,7,8-HXCDF | 1 | 100 | -- | - | -- | -- | 3.08E-04 | -- |
| 2,3,4,6,7,8-HXCDF | 1 | 100 | -- | - | -- | -- | 1.42E-04 | -- |
| 1,2,3,4,6,7,8-HPCDF | 1 | 100 | -- | - | -- | -- | 4.83E-04 | -- |
| 1,2,3,4,7,8,9-HPCDF | 1 | 100 | -- | - | -- | -- | 2.83E-05 | -- |
| 1,2,3,4,6,7,8-HPCDD | 1 | 100 | -- | - | -- | -- | 5.91E-04 | -- |
| TEQs | 1 | -- | -- | - | -- | -- | 3.21E-04 | -- |

**Sample Location: REACH 5A - CONFLUENCE OF EAST & WEST BRANCH OF HOUSATONIC RIVER TO UPSTREAM OF WWTP**

**Sample Year: 2000**

| | Detritus (filtered) | | | | | |
|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | **Median** | **Arithmetic Mean[2]** | **Standard Error** |
| All PCDDs/PCDFs | 1 | below detection limit (10 - 100 pg/L) for all constituents | | -- | -- | -- |
| TEQs | -- | | | -- | -- | -- |

**Sample Location: REACH 6 - HOUSATONIC RIVER - WOODS POND**

**Sample Year: 2000**

| | Filamentous Algae | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Concentrations in mg/kg | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2]** | **Standard Error** |
| OCDF | 1 | 100 | -- | - | -- | -- | 8.40E-06 | -- |
| TEQs | 1 | -- | -- | - | -- | -- | 3.59E-05 | -- |

Notes:
1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.
7. -- = Not Applicable.

# Table C-47
## Pesticide Data Summary Table for Aquatic Vegetation
## (Periphyton, Algae, and Aquatic Macrophytes)

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| | Filamentous Algae Concentrations in mg/kg | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **Range Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 3 | 100 | 1.72E-03 | 2.43E-03 | 2.42E-03 | 2.19E-03 | 2.36E-04 |
| 1,2,4,5-Tetrachlorobenzene | 3 | 100 | 1.17E-03 | 4.61E-03 | 2.11E-03 | 2.63E-03 | 1.03E-03 |
| 4,4'-DDD | 3 | 33 | ND | 2.18E-03 | 2.78E-03 | 2.73E-03 | 3.10E-04 |
| 4,4'-DDE | 3 | 100 | 1.26E-03 | 2.41E-03 | 1.36E-03 | 1.67E-03 | 3.69E-04 |
| 4,4'-DDT | 3 | 33 | ND | 2.65E-03 | 2.78E-03 | 2.89E-03 | 1.81E-04 |
| Alpha-BHC | 3 | 33 | ND | 4.30E-04 | 2.78E-03 | 2.15E-03 | 8.71E-04 |
| Chlorpyrifos | 3 | 33 | ND | 5.79E-04 | 1.70E-03 | 1.84E-03 | 7.74E-04 |
| Cis-Nonachlor | 3 | 100 | 1.27E-03 | 7.72E-03 | 2.74E-03 | 3.91E-03 | 1.95E-03 |
| Dieldrin | 3 | 100 | 4.46E-04 | 2.17E-03 | 9.35E-04 | 1.18E-03 | 5.14E-04 |
| Endosulfan II | 3 | 33 | ND | 1.85E-03 | 1.85E-03 | 2.11E-03 | 3.38E-04 |
| Gamma-Chlordane | 3 | 33 | ND | 5.91E-04 | 2.78E-03 | 2.21E-03 | 8.18E-04 |
| Hexachlorobenzene | 3 | 33 | ND | 1.14E-03 | 2.78E-03 | 2.39E-03 | 6.37E-04 |
| O,P'-DDD | 3 | 100 | 1.65E-03 | 1.10E-02 | 2.86E-03 | 5.17E-03 | 2.95E-03 |
| O,P'-DDE | 3 | 67 | ND | 9.72E-04 | 9.72E-04 | 1.07E-03 | 3.34E-04 |
| O,P'-DDT | 3 | 100 | 7.63E-04 | 7.93E-03 | 1.82E-03 | 3.50E-03 | 2.23E-03 |
| Pentachloroanisole | 3 | 100 | 1.90E-04 | 8.11E-04 | 2.07E-04 | 4.03E-04 | 2.04E-04 |
| Pentachlorobenzene | 3 | 100 | 9.92E-04 | 1.81E-03 | 1.78E-03 | 1.53E-03 | 2.68E-04 |
| Trans-Nonachlor | 3 | 33 | ND | 8.10E-04 | 2.78E-03 | 2.28E-03 | 7.47E-04 |

| | Macrophyte Concentrations in mg/kg | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **Range Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 4 | 100 | 1.02E-03 | 3.23E-03 | 1.43E-03 | 1.78E-03 | 4.94E-04 |
| 1,2,4,5-Tetrachlorobenzene | 4 | 100 | 3.92E-04 | 2.59E-03 | 1.50E-03 | 1.50E-03 | 4.57E-04 |
| 4,4'-DDD | 4 | 75 | ND | 1.24E-03 | 9.33E-04 | 1.10E-03 | 3.49E-04 |
| 4,4'-DDE | 4 | 100 | 1.55E-03 | 2.63E-03 | 1.77E-03 | 1.93E-03 | 2.42E-04 |
| 4,4'-DDT | 4 | 75 | ND | 6.24E-03 | 2.72E-03 | 3.08E-03 | 1.17E-03 |
| Alpha-BHC | 4 | 50 | 2.08E-04 | 3.13E-04 | 1.17E-03 | 1.18E-03 | 5.30E-04 |
| Cis-Nonachlor | 4 | 100 | 3.55E-03 | 4.56E-03 | 4.28E-03 | 4.17E-03 | 2.34E-04 |
| Dieldrin | 4 | 75 | ND | 2.51E-03 | 2.79E-03 | 3.21E-03 | 1.09E-03 |
| Endosulfan II | 4 | 25 | ND | 1.54E-03 | 2.09E-03 | 2.20E-03 | 3.19E-04 |
| Endrin | 4 | 25 | ND | 2.33E-03 | 2.70E-03 | 2.65E-03 | 2.41E-04 |
| Gamma BHC (Lindane) | 4 | 25 | ND | 1.63E-04 | 2.55E-03 | 2.08E-03 | 6.85E-04 |
| Gamma-Chlordane | 4 | 25 | ND | 9.52E-04 | 2.55E-03 | 2.28E-03 | 5.05E-04 |
| Hexachlorobenzene | 4 | 25 | ND | 1.95E-04 | 2.55E-03 | 2.09E-03 | 6.77E-04 |
| O,P'-DDD | 4 | 75 | ND | 8.65E-03 | 3.89E-03 | 4.65E-03 | 1.40E-03 |
| O,P'-DDE | 4 | 50 | ND | 5.73E-04 | 1.30E-03 | 1.33E-03 | 4.42E-04 |
| O,P'-DDT | 4 | 100 | 3.35E-03 | 5.19E-03 | 3.71E-03 | 3.99E-03 | 4.09E-04 |
| Oxychlordane | 4 | 75 | ND | 1.54E-03 | 1.82E-03 | 1.86E-03 | 4.91E-04 |
| Pentachloroanisole | 4 | 100 | 1.61E-04 | 9.27E-04 | 4.84E-04 | 5.14E-04 | 1.74E-04 |
| Pentachlorobenzene | 4 | 100 | 1.14E-03 | 2.95E-03 | 1.90E-03 | 1.97E-03 | 4.05E-04 |
| Trans-Nonachlor | 4 | 50 | ND | 8.54E-04 | 1.44E-03 | 1.67E-03 | 5.50E-04 |

# Table C-47
## Pesticide Data Summary Table for Aquatic Vegetation
## (Periphyton, Algae, and Aquatic Macrophytes)

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| | Periphyton (from macrophyte) Concentrations in mg/kg | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 3 | 100 | 1.74E-02 | 3.93E-02 | 2.29E-02 | 2.65E-02 | 6.59E-03 |
| 1,2,4,5-Tetrachlorobenzene | 3 | 100 | 4.48E-03 | 2.80E-02 | 1.34E-02 | 1.53E-02 | 6.86E-03 |
| 4,4'-DDD | 3 | 100 | 1.02E-02 | 2.07E-02 | 1.62E-02 | 1.57E-02 | 3.04E-03 |
| 4,4'-DDE | 3 | 100 | 1.75E-02 | 5.39E-02 | 2.68E-02 | 3.27E-02 | 1.09E-02 |
| 4,4'-DDT | 3 | 100 | 7.27E-04 | 2.58E-02 | 7.54E-03 | 1.14E-02 | 7.49E-03 |
| Alpha-bhc | 3 | 67 | ND | 8.00E-04 | 8.00E-04 | 1.35E-03 | 5.74E-04 |
| Chlorpyrifos | 3 | 67 | ND | 8.69E-04 | 8.69E-04 | 1.16E-03 | 7.02E-04 |
| Cis-Nonachlor | 3 | 100 | 3.09E-02 | 6.70E-02 | 5.78E-02 | 5.19E-02 | 1.08E-02 |
| Delta-BHC | 3 | 67 | ND | 3.24E-03 | 3.16E-03 | 2.97E-03 | 2.35E-04 |
| Dieldrin | 3 | 100 | 1.41E-03 | 2.33E-02 | 1.35E-02 | 1.27E-02 | 6.34E-03 |
| Endrin | 3 | 67 | ND | 1.30E-03 | 1.30E-03 | 1.67E-03 | 4.15E-04 |
| Gamma BHC (Lindane) | 3 | 67 | ND | 7.92E-03 | 2.08E-03 | 3.40E-03 | 2.32E-03 |
| Gamma-Chlordane | 3 | 100 | 2.37E-03 | 6.16E-03 | 3.09E-03 | 3.88E-03 | 1.16E-03 |
| Heptachlor | 3 | 33 | ND | 3.15E-03 | 2.08E-03 | 2.40E-03 | 3.78E-04 |
| Heptachlor Epoxide | 3 | 67 | ND | 4.09E-03 | 2.50E-03 | 2.33E-03 | 1.07E-03 |
| Hexachlorobenzene | 3 | 67 | ND | 7.61E-03 | 2.08E-03 | 3.66E-03 | 1.99E-03 |
| O,P'-DDD | 3 | 100 | 3.88E-02 | 8.33E-02 | 6.88E-02 | 6.36E-02 | 1.31E-02 |
| O,P'-DDT | 3 | 100 | 3.68E-02 | 7.75E-02 | 7.50E-02 | 6.31E-02 | 1.31E-02 |
| Oxychlordane | 3 | 33 | ND | 3.92E-03 | 2.08E-03 | 2.66E-03 | 6.35E-04 |
| Pentachloroanisole | 3 | 67 | ND | 1.17E-03 | 1.17E-03 | 1.47E-03 | 5.31E-04 |
| Pentachlorobenzene | 3 | 100 | 9.44E-03 | 1.27E-02 | 1.21E-02 | 1.14E-02 | 9.92E-04 |
| Trans-Nonachlor | 3 | 33 | ND | 9.78E-03 | 2.08E-03 | 4.61E-03 | 2.59E-03 |

| | Periphyton (filtered) Concentrations in ng/L | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | -- | -- | 2.39E+02 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | -- | -- | 6.71E+01 | -- |
| 4,4'-DDD | 1 | 100 | -- | -- | -- | 5.02E+01 | -- |
| 4,4'-DDE | 1 | 100 | -- | -- | -- | 5.98E+01 | -- |
| 4,4'-DDT | 1 | 100 | -- | -- | -- | 5.42E+01 | -- |
| Cis-Nonachlor | 1 | 100 | -- | -- | -- | 2.35E+02 | -- |
| Dieldrin | 1 | 100 | -- | -- | -- | 6.16E+01 | -- |
| Hexachlorobenzene | 1 | 100 | -- | -- | -- | 2.77E+01 | -- |
| O,P'-DDD | 1 | 100 | -- | -- | -- | 1.97E+02 | -- |
| O,P'-DDT | 1 | 100 | -- | -- | -- | 2.79E+02 | -- |
| Oxychlordane | 1 | 100 | -- | -- | -- | 1.89E+01 | -- |
| Pentachloroanisole | 1 | 100 | -- | -- | -- | 3.77E+00 | -- |
| Pentachlorobenzene | 1 | 100 | -- | -- | -- | 1.30E+02 | -- |

# Table C-47
## Pesticide Data Summary Table for Aquatic Vegetation
## (Periphyton, Algae, and Aquatic Macrophytes)

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| | Periphyton (substrate) Concentrations in mg/kg | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 4 | 100 | 7.03E-03 | - | 7.69E-02 | 2.77E-02 | 3.48E-02 | 1.49E-02 |
| 1,2,4,5-Tetrachlorobenzene | 4 | 100 | 6.46E-03 | - | 2.10E-02 | 1.17E-02 | 1.27E-02 | 3.08E-03 |
| 4,4'-DDD | 4 | 100 | 6.22E-03 | - | 2.94E-02 | 1.48E-02 | 1.63E-02 | 4.80E-03 |
| 4,4'-DDE | 4 | 100 | 1.11E-02 | - | 2.46E-02 | 1.70E-02 | 1.74E-02 | 2.77E-03 |
| 4,4'-DDT | 4 | 100 | 2.87E-03 | - | 1.55E-02 | 1.21E-02 | 1.06E-02 | 2.78E-03 |
| Aldrin | 4 | 25 | ND | - | 2.24E-03 | 2.36E-03 | 2.35E-03 | 2.64E-04 |
| Alpha-BHC | 4 | 25 | ND | - | 4.46E-04 | 2.36E-03 | 2.04E-03 | 5.52E-04 |
| Beta-BHC | 4 | 50 | ND | - | 5.41E-04 | 1.12E-03 | 1.40E-03 | 6.01E-04 |
| Chlorpyrifos | 4 | 50 | ND | - | 7.44E-03 | 2.73E-03 | 3.34E-03 | 1.47E-03 |
| Cis-Nonachlor | 4 | 100 | 2.56E-02 | - | 6.78E-02 | 5.24E-02 | 4.95E-02 | 9.20E-03 |
| Delta-BHC | 4 | 25 | ND | - | 7.42E-03 | 2.73E-03 | 3.78E-03 | 1.22E-03 |
| Dieldrin | 4 | 100 | 4.39E-03 | - | 2.65E-02 | 1.07E-02 | 1.30E-02 | 5.08E-03 |
| Endosulfan II | 4 | 25 | ND | - | 1.56E-02 | 2.36E-03 | 5.50E-03 | 3.36E-03 |
| Endrin | 4 | 25 | ND | - | 1.37E-03 | 2.36E-03 | 2.27E-03 | 3.36E-04 |
| Gamma-Chlordane | 4 | 75 | ND | - | 3.36E-03 | 2.57E-03 | 2.56E-03 | 3.69E-04 |
| Heptachlor Epoxide | 4 | 25 | ND | - | 1.97E-03 | 2.36E-03 | 2.42E-03 | 2.14E-04 |
| Hexachlorobenzene | 4 | 100 | 1.45E-04 | - | 5.29E-03 | 3.26E-03 | 2.99E-03 | 1.16E-03 |
| O,P'-DDD | 4 | 100 | 2.95E-02 | - | 9.55E-02 | 5.65E-02 | 5.95E-02 | 1.41E-02 |
| O,P'-DDE | 4 | 25 | ND | - | 2.11E-03 | 2.18E-03 | 2.14E-03 | 1.63E-04 |
| O,P'-DDT | 4 | 100 | 3.48E-02 | - | 7.58E-02 | 6.26E-02 | 5.89E-02 | 9.37E-03 |
| Oxychlordane | 4 | 75 | ND | - | 2.53E-03 | 1.71E-03 | 1.85E-03 | 2.34E-04 |
| Pentachloroanisole | 4 | 100 | 3.38E-04 | - | 1.35E-03 | 6.39E-04 | 7.40E-04 | 2.27E-04 |
| Pentachlorobenzene | 4 | 100 | 2.02E-03 | - | 3.72E-02 | 1.80E-02 | 1.88E-02 | 7.69E-03 |
| Trans-Nonachlor | 4 | 75 | ND | - | 1.75E-03 | 1.34E-03 | 1.21E-03 | 3.18E-04 |

**Sample Location: REACH 5A-CONFLUENCE OF EAST & WEST BRANCH OF HOUSATONIC RIVER UPSTREAM OF WWTP**

**Sample Year: 2000**

| | Detritus (filtered) Concentrations in ng/L | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 7.51E+00 | -- |

**Sample Location: REACH 5B - DOWNSTREAM OF WWTP TO UPSTREAM OF ROARING BROOK CONFLUENCE**

**Sample Year: 2000**

| | Detritus (filtered) Concentrations in ng/L | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 2 | 100 | 1.15E+00 | - | 1.72E+00 | 1.44E+00 | 1.44E+00 | 2.85E-01 |
| 1,2,4,5-Tetrachlorobenzene | 2 | 100 | 7.70E+00 | - | 7.78E+00 | 7.74E+00 | 7.74E+00 | 4.25E-02 |
| 4,4'-DDE | 2 | 100 | 3.52E-01 | - | 5.86E-01 | 4.69E-01 | 4.69E-01 | 1.17E-01 |
| 4,4'-DDT | 2 | 50 | ND | - | 1.51E+00 | 3.26E+00 | 3.26E+00 | 1.74E+00 |
| Cis-Nonachlor | 2 | 100 | 1.30E+00 | - | 2.18E+00 | 1.74E+00 | 1.74E+00 | 4.41E-01 |
| Dieldrin | 2 | 50 | ND | - | 2.66E-01 | 2.63E+00 | 2.63E+00 | 2.37E+00 |
| Gamma-Chlordane | 2 | 50 | ND | - | 5.02E-01 | 2.75E+00 | 2.75E+00 | 2.25E+00 |
| O,P'-DDD | 2 | 100 | 1.08E+00 | - | 2.02E+00 | 1.55E+00 | 1.55E+00 | 4.69E-01 |
| O,P'-DDT | 2 | 100 | 1.29E+00 | - | 1.98E+00 | 1.63E+00 | 1.63E+00 | 3.49E-01 |
| Pentachloroanisole | 2 | 100 | 3.57E-01 | - | 4.99E-01 | 4.28E-01 | 4.28E-01 | 7.10E-02 |
| Pentachlorobenzene | 2 | 50 | ND | - | 6.75E-01 | 2.84E+00 | 2.84E+00 | 2.16E+00 |

# Table C-47
## Pesticide Data Summary Table for Aquatic Vegetation (Periphyton, Algae, and Aquatic Macrophytes)

**Sample Location - REACH 6 - HOUSATONIC RIVER - WOODS POND**

**Sample Year:** 2000

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|
| **Filamentous Algae Concentrations in mg/kg** | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | -- | -- | 1.07E-03 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | -- | -- | 1.99E-03 | -- |
| 4,4'-DDD | 1 | 100 | -- | -- | -- | 1.46E-04 | -- |
| 4,4'-DDE | 1 | 100 | -- | -- | -- | 6.84E-04 | -- |
| Cis-Nonachlor | 1 | 100 | -- | -- | -- | 1.25E-03 | -- |
| Dieldrin | 1 | 100 | -- | -- | -- | 5.02E-04 | -- |
| O,P'-DDD | 1 | 100 | -- | -- | -- | 1.59E-03 | -- |
| O,P'-DDE | 1 | 100 | -- | -- | -- | 6.59E-04 | -- |
| O,P'-DDT | 1 | 100 | -- | -- | -- | 1.16E-03 | -- |
| Pentachloroanisole | 1 | 100 | -- | -- | -- | 7.78E-04 | -- |
| Pentachlorobenzene | 1 | 100 | -- | -- | -- | 8.11E-04 | -- |
| **Macrophyte Concentrations in mg/kg** | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | -- | -- | 1.15E-03 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | -- | -- | 2.01E-03 | -- |
| 4,4'-DDD | 1 | 100 | -- | -- | -- | 1.81E-03 | -- |
| 4,4'-DDE | 1 | 100 | -- | -- | -- | 2.98E-03 | -- |
| Alpha-BHC | 1 | 100 | -- | -- | -- | 1.76E-04 | -- |
| Cis-Nonachlor | 1 | 100 | -- | -- | -- | 8.49E-03 | -- |
| Dieldrin | 1 | 100 | -- | -- | -- | 1.21E-03 | -- |
| Endosulfan II | 1 | 100 | -- | -- | -- | 2.41E-03 | -- |
| O,P'-DDD | 1 | 100 | -- | -- | -- | 7.63E-03 | -- |
| O,P'-DDE | 1 | 100 | -- | -- | -- | 5.45E-04 | -- |
| O,P'-DDT | 1 | 100 | -- | -- | -- | 1.18E-02 | -- |
| Pentachloroanisole | 1 | 100 | -- | -- | -- | 6.72E-04 | -- |
| Pentachlorobenzene | 1 | 100 | -- | -- | -- | 1.13E-03 | -- |

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year:** 2000

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|
| **Periphyton (from macrophyte) Concentrations in mg/kg** | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | -- | -- | 3.77E-02 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | -- | -- | 4.01E-02 | -- |
| 4,4'-DDD | 1 | 100 | -- | -- | -- | 3.00E-02 | -- |
| 4,4'-DDE | 1 | 100 | -- | -- | -- | 6.97E-02 | -- |
| 4,4'-DDT | 1 | 100 | -- | -- | -- | 9.52E-03 | -- |
| Alpha-BHC | 1 | 100 | -- | -- | -- | 1.99E-04 | -- |
| Cis-Nonachlor | 1 | 100 | -- | -- | -- | 9.26E-02 | -- |
| Delta-BHC | 1 | 100 | -- | -- | -- | 4.44E-03 | -- |
| Dieldrin | 1 | 100 | -- | -- | -- | 2.19E-02 | -- |
| Gamma-Chlordane | 1 | 100 | -- | -- | -- | 5.69E-03 | -- |
| Heptachlor Epoxide | 1 | 100 | -- | -- | -- | 4.64E-03 | -- |
| Hexachlorobenzene | 1 | 100 | -- | -- | -- | 1.70E-03 | -- |
| Mirex | 1 | 100 | -- | -- | -- | 3.27E-03 | -- |
| O,P'-DDD | 1 | 100 | -- | -- | -- | 9.74E-02 | -- |
| O,P'-DDT | 1 | 100 | -- | -- | -- | 1.29E-01 | -- |
| Pentachloroanisole | 1 | 100 | -- | -- | -- | 9.19E-04 | -- |
| Pentachlorobenzene | 1 | 100 | -- | -- | -- | 1.49E-02 | -- |
| Trans-Nonachlor | 1 | 100 | -- | -- | -- | 2.05E-03 | -- |

# Table C-47
## Pesticide Data Summary Table for Aquatic Vegetation (Periphyton, Algae, and Aquatic Macrophytes)

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 2000**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Periphyton (substrate) Concentrations in mg/kg** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.69E-02 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 4.07E-03 | -- |
| 4,4'-DDD | 1 | 100 | -- | - | -- | -- | 1.26E-02 | -- |
| 4,4'-DDE | 1 | 100 | -- | - | -- | -- | 5.68E-02 | -- |
| 4,4'-DDT | 1 | 100 | -- | - | -- | -- | 2.53E-03 | -- |
| Alpha-BHC | 1 | 100 | -- | - | -- | -- | 3.45E-04 | -- |
| Chlorpyrifos | 1 | 100 | -- | - | -- | -- | 3.37E-04 | -- |
| Cis-Nonachlor | 1 | 100 | -- | - | -- | -- | 5.24E-02 | -- |
| Delta-BHC | 1 | 100 | -- | - | -- | -- | 3.27E-03 | -- |
| Dieldrin | 1 | 100 | -- | - | -- | -- | 3.65E-02 | -- |
| Gamma-Chlordane | 1 | 100 | -- | - | -- | -- | 2.18E-04 | -- |
| Heptachlor Epoxide | 1 | 100 | -- | - | -- | -- | 3.48E-03 | -- |
| Hexachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.05E-03 | -- |
| O,P'-DDD | 1 | 100 | -- | - | -- | -- | 9.99E-02 | -- |
| O,P'-DDT | 1 | 100 | -- | - | -- | -- | 1.07E-01 | -- |
| Pentachloroanisole | 1 | 100 | -- | - | -- | -- | 9.51E-04 | -- |
| Pentachlorobenzene | 1 | 100 | -- | - | -- | -- | 6.15E-03 | -- |
| **Detritus (filtered) Concentrations in ng/L** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Range Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 3.48E-01 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 5.10E+00 | -- |
| 4,4'-DDD | 1 | 100 | -- | - | -- | -- | 6.22E-01 | -- |
| 4,4'-DDE | 1 | 100 | -- | - | -- | -- | 3.35E+00 | -- |
| 4,4'-DDT | 1 | 100 | -- | - | -- | -- | 6.49E-01 | -- |
| Alpha-Chlordane | 1 | 100 | -- | - | -- | -- | 2.09E-01 | -- |
| Cis-Nonachlor | 1 | 100 | -- | - | -- | -- | 4.07E+00 | -- |
| Dieldrin | 1 | 100 | -- | - | -- | -- | 1.23E+00 | -- |
| Endrin | 1 | 100 | -- | - | -- | -- | 1.02E-01 | -- |
| O,P'-DDD | 1 | 100 | -- | - | -- | -- | 5.84E+00 | -- |
| O,P'-DDT | 1 | 100 | -- | - | -- | -- | 5.69E+00 | -- |
| Pentachloroanisole | 1 | 100 | -- | - | -- | -- | 3.67E-01 | -- |
| Pentachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.43E-01 | -- |

# Table C-47
## Pesticide Data Summary Table for Aquatic Vegetation (Periphyton, Algae, and Aquatic Macrophytes)

**Sample Location: REACH 6A - HOUSATONIC RIVER - WOODS POND (WEST HALF)**

**Sample Year: 2000**

| | Detritus (filtered) Concentrations in ng/L | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.72E+00 | -- |
| 1,2,4,5-Tetrachlorobenzene | 1 | 100 | -- | - | -- | -- | 1.11E+01 | -- |
| 4,4'-DDE | 1 | 100 | -- | - | -- | -- | 1.11E+00 | -- |
| Cis-Nonachlor | 1 | 100 | -- | - | -- | -- | 2.15E+00 | -- |
| Dieldrin | 1 | 100 | -- | - | -- | -- | 6.80E-01 | -- |
| O,P'-DDD | 1 | 100 | -- | - | -- | -- | 2.35E+00 | -- |
| O,P'-DDT | 1 | 100 | -- | - | -- | -- | 2.67E+00 | -- |
| Pentachloroanisole | 1 | 100 | -- | - | -- | -- | 5.70E-01 | -- |

Notes:

1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. -- = Not Applicable.

**General Electric Company**
**Housatonic River - Rest of River**
**RFI Report**

# Table C-48
# PCDD/PCDF Data Summary Table for Terrestrial Vegetation (Grass)

**Sample Location: REACH 5B - DOWNSTREAM OF WWTP TO UPSTREAM OF ROARING BROOK CONFLUENCE**

**Sample Year: 2001**

| | Grass | | | | | |
|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | **Median** | **Arithmetic Mean[2]** | **Standard Error** |
| OCDD | 10 | 20 | ND - 3.40E-06 | 2.48E-06 | 0.00000253 | 9.92E-08 |
| WHO TEQ (Human/Mammal) | 10 | -- | 2.90E-06 - 3.13E-06 | 3.01E-06 | 3.05E-06 | 2.43346E-08 |

Notes:
1. EPA collected samples included in this data summary table.
2. The arithmetic mean and standard deviation were calculated using 1/2 the laboratory detection limit for all non-detects.
3. Units are mg/Kg or ppm.
4. ND = Not Detected.
5. -- = Not Applicable.

General Electric Company
Housatonic River - Rest of River
RFI Report

# Table C-49
# PCDD/PCDF Data Summary Table for Waterfowl

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Mallard Breast** | | | | | | | | |
| 1,2,3,4,7,8-HXCDF | 3 | 33 | ND | - | 2.00E-06 | NA | 2.83E-06 | 1.42E-07 |
| 1,2,3,7,8-PECDF | 3 | 100 | 1.70E-06 | - | 6.90E-06 | 6.70E-06 | 5.10E-06 | 1.70E-06 |
| 2,3,4,7,8-PECDF | 3 | 100 | 7.50E-06 | - | 2.13E-05 | 1.77E-05 | 1.55E-05 | 4.13E-06 |
| WHO TEQ (Human/Mammal) | 3 | -- | 9.36E-06 | - | 1.71E-05 | 1.57E-05 | 1.41E-05 | 2.39E-06 |
| **Mallard Liver** | | | | | | | | |
| 1,2,3,7,8-PECDF | 3 | 67 | ND | - | 2.47E-05 | 1.62E-05 | 1.77E-05 | 5.17E-06 |
| 2,3,4,7,8-PECDF | 3 | 67 | ND | - | 6.87E-05 | 5.10E-05 | 4.09E-05 | 1.44E-05 |
| 2,3,7,8-TCDF | 3 | 100 | 4.22E-05 | - | 1.12E-04 | 9.17E-05 | 8.18E-05 | 2.06E-05 |
| WHO TEQ (Human/Mammal) | 3 | -- | 6.06E-05 | - | 8.89E-05 | 6.63E-05 | 7.19E-05 | 8.64E-06 |
| **Wood Duck Breast[a]** | | | | | | | | |
| 2,3,7,8-TCDF | 9 | 100 | 1.42E-05 | - | 9.21E-05 | 5.26E-05 | 5.01E-05 | 8.46E-06 |
| WHO TEQ (Human/Mammal) | 9 | -- | 8.02E-06 | - | 2.16E-05 | 1.39E-05 | 1.47E-05 | 1.71E-06 |
| **Wood Duck Liver** | | | | | | | | |
| 2,3,4,7,8-PECDF | 8 | 25 | ND | - | 1.55E-04 | 1.45E-04 | 5.22E-05 | 2.04E-05 |
| 2,3,7,8-TCDF | 8 | 100 | 4.45E-05 | - | 3.89E-04 | 6.86E-05 | 1.19E-04 | 4.09E-05 |
| OCDD | 8 | 13 | ND | - | 7.80E-06 | NA | 3.98E-05 | 4.86E-06 |
| Total PCDDs | 8 | 13 | ND | - | 7.80E-06 | NA | 3.98E-05 | 4.86E-06 |
| WHO TEQ (Human/Mammal) | 8 | -- | 4.68E-05 | - | 1.57E-04 | 6.29E-05 | 8.05E-05 | 1.44E-05 |

# Table C-49
## PCDD/PCDF Data Summary Table for Waterfowl

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Mallard Breast** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 2 | 50 | ND | - | 1.40E-06 | NA | 1.93E-06 | 5.25E-07 |
| 1,2,3,4,6,7,8-HPCDF | 2 | 50 | ND | - | 2.10E-06 | NA | 2.20E-06 | 1.00E-07 |
| 1,2,3,4,7,8-HXCDF | 2 | 50 | ND | - | 5.80E-06 | NA | 4.13E-06 | 1.67E-06 |
| 1,2,3,6,7,8-HXCDD | 2 | 50 | ND | - | 2.80E-06 | NA | 2.63E-06 | 1.75E-07 |
| 1,2,3,6,7,8-HXCDF | 2 | 50 | ND | - | 1.70E-06 | NA | 2.08E-06 | 3.75E-07 |
| 1,2,3,7,8-PECDD | 2 | 50 | ND | - | 4.40E-06 | NA | 3.43E-06 | 9.75E-07 |
| 1,2,3,7,8-PECDF | 2 | 50 | ND | - | 1.60E-05 | NA | 1.09E-05 | 5.50E-06 |
| 2,3,4,6,7,8-HXCDF | 2 | 50 | ND | - | 1.50E-06 | NA | 1.98E-06 | 4.75E-07 |
| 2,3,4,7,8-PECDF | 2 | 100 | 3.80E-05 | - | 1.20E-04 | 8.10E-05 | 8.10E-05 | 4.29E-05 |
| 2,3,7,8-TCDD | 2 | 50 | ND | - | 4.00E-06 | NA | 2.25E-06 | 1.75E-06 |
| 2,3,7,8-TCDF | 2 | 100 | 7.29E-05 | - | 1.15E-04 | 9.41E-05 | 9.41E-05 | 2.12E-05 |
| WHO TEQ (Human/Mammal) | 2 | -- | 3.18E-05 | - | 8.41E-05 | 5.80E-05 | 5.80E-05 | 2.61E-05 |
| **Mallard Liver** | | | | | | | | |
| 1,2,3,7,8-PECDF | 2 | 50 | ND | - | 2.60E-05 | NA | 1.71E-05 | 8.37E-06 |
| 2,3,4,7,8-PECDF | 2 | 100 | 5.91E-05 | - | 1.35E-04 | 9.70E-05 | 9.70E-05 | 3.79E-05 |
| 2,3,7,8-TCDF | 2 | 100 | 7.18E-05 | - | 1.12E-04 | 9.17E-05 | 9.17E-05 | 1.98E-05 |
| WHO TEQ (Human/Mammal) | 2 | -- | 7.98E-05 | - | 1.19E-04 | 9.95E-05 | 9.95E-05 | 1.97E-05 |
| **Wood Duck Breast[b]** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 14 | 7 | ND | - | 4.80E-06 | NA | 2.56E-06 | 1.75E-07 |
| 1,2,3,4,6,7,8-HPCDF | 14 | 14 | ND | - | 4.80E-06 | 2.75E-06 | 2.46E-06 | 2.18E-07 |
| 1,2,3,4,7,8,9-HPCDF | 14 | 7 | ND | - | 4.80E-06 | NA | 2.56E-06 | 1.75E-07 |
| 1,2,3,4,7,8-HXCDD | 14 | 7 | ND | - | 4.80E-06 | NA | 2.56E-06 | 1.75E-07 |
| 1,2,3,4,7,8-HXCDF | 14 | 21 | ND | - | 4.80E-06 | 2.30E-06 | 2.46E-06 | 2.18E-07 |
| 1,2,3,6,7,8-HXCDD | 14 | 7 | ND | - | 4.80E-06 | NA | 2.56E-06 | 1.75E-07 |
| 1,2,3,6,7,8-HXCDF | 14 | 21 | ND | - | 4.80E-06 | 1.20E-06 | 2.38E-06 | 2.36E-07 |
| 1,2,3,7,8,9-HXCDD | 14 | 7 | ND | - | 4.80E-06 | NA | 2.56E-06 | 1.75E-07 |
| 1,2,3,7,8,9-HXCDF | 14 | 7 | ND | - | 4.80E-06 | NA | 2.56E-06 | 1.75E-07 |
| 1,2,3,7,8-PECDD | 14 | 7 | ND | - | 4.80E-06 | NA | 2.56E-06 | 1.75E-07 |
| 1,2,3,7,8-PECDF | 14 | 7 | ND | - | 2.70E-06 | NA | 2.07E-06 | 2.53E-07 |
| 2,3,4,6,7,8-HXCDF | 14 | 14 | ND | - | 4.80E-06 | 3.00E-06 | 2.50E-06 | 1.98E-07 |
| 2,3,4,7,8-PECDF | 14 | 7 | ND | - | 7.00E-06 | NA | 8.80E-06 | 1.94E-06 |
| 2,3,7,8-TCDD | 14 | 14 | ND | - | 1.00E-06 | 9.00E-07 | 5.43E-07 | 4.22E-08 |
| 2,3,7,8-TCDF | 14 | 64 | ND | - | 1.00E-04 | 5.85E-05 | 4.20E-05 | 8.25E-06 |
| OCDD | 14 | 14 | ND | - | 9.60E-06 | 6.00E-06 | 4.96E-06 | 3.99E-07 |
| OCDF | 14 | 7 | ND | - | 9.60E-06 | NA | 5.12E-06 | 3.49E-07 |
| Total PCDDs | 14 | 14 | ND | - | 9.60E-06 | 6.00E-06 | 4.96E-06 | 3.99E-07 |
| Total PCDFs | 14 | 7 | ND | - | 9.60E-06 | NA | 5.12E-06 | 3.49E-07 |
| WHO TEQ (Human/Mammal) | 14 | -- | 7.54E-06 | - | 2.26E-05 | 1.36E-05 | 1.37E-05 | 1.32E-06 |

# Table C-49
## PCDD/PCDF Data Summary Table for Waterfowl

**Sample Location: REACH 6 - WOODS POND**

**Sample Year: 1998**

| Constituent | Wood Duck Liver | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2] | Standard Error |
| 1,2,3,4,6,7,8-HPCDD | 12 | 8 | ND | - | 8.10E-06 | NA | 1.95E-05 | 1.64E-06 |
| 1,2,3,4,7,8,9-HPCDF | 12 | 8 | ND | - | 1.30E-05 | NA | 1.98E-05 | 1.39E-06 |
| 1,2,3,4,7,8-HXCDF | 12 | 8 | ND | - | 1.60E-05 | NA | 2.00E-05 | 1.31E-06 |
| 1,2,3,6,7,8-HXCDD | 12 | 8 | ND | - | 1.20E-05 | NA | 1.97E-05 | 1.45E-06 |
| 1,2,3,6,7,8-HXCDF | 12 | 8 | ND | - | 1.60E-05 | NA | 2.00E-05 | 1.31E-06 |
| 1,2,3,7,8-PECDD | 12 | 8 | ND | - | 1.60E-05 | NA | 2.00E-05 | 1.31E-06 |
| 1,2,3,7,8-PECDF | 12 | 25 | ND | - | 4.11E-05 | 3.78E-05 | 1.59E-05 | 4.36E-06 |
| 2,3,4,7,8-PECDF | 12 | 25 | ND | - | 1.92E-04 | 8.90E-05 | 3.71E-05 | 1.59E-05 |
| 2,3,7,8-TCDF | 12 | 75 | ND | - | 3.17E-04 | 8.01E-05 | 8.88E-05 | 2.30E-05 |
| OCDD | 12 | 17 | ND | - | 7.10E-05 | 4.14E-05 | 4.04E-05 | 4.35E-06 |
| OCDF | 12 | 8 | ND | - | 5.30E-05 | NA | 4.19E-05 | 2.69E-06 |
| Total PCDDs | 12 | 17 | ND | - | 7.10E-05 | 4.14E-05 | 4.04E-05 | 4.35E-06 |
| Total PCDFs | 12 | 8 | ND | - | 5.30E-05 | NA | 4.19E-05 | 2.69E-06 |
| WHO TEQ (Human/Mammal) | 12 | -- | 2.77E-05 | - | 1.71E-04 | 5.67E-05 | 6.50E-05 | 1.15E-05 |

Notes:

1. EPA collected all samples included in this data summary table. Samples are individual.
2. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
3. Units are mg/Kg or ppm.
4. ND = Not Detected.
5. NA = Not Available.

[a] Includes one duplicate breast sample.

[b] Includes two duplicate breast samples.

# Table C-50
## Pesticide Data Summary Table for Waterfowl

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Mallard Breast** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 3 | 33 | ND | - | 4.43E-03 | NA | 2.57E-03 | 9.27E-04 |
| 1,2,4,5-Tetrachlorobenzene | 3 | 33 | ND | - | 1.00E-03 | NA | 1.44E-03 | 2.17E-04 |
| 4,4'-DDD | 3 | 67 | ND | - | 1.84E-03 | 1.20E-03 | 1.35E-03 | 3.98E-04 |
| 4,4'-DDE | 3 | 100 | 7.31E-03 | - | 2.00E-02 | 9.99E-03 | 1.24E-02 | 3.86E-03 |
| Alpha-BHC | 3 | 33 | ND | - | 7.20E-05 | NA | 1.13E-03 | 5.27E-04 |
| Alpha-Chlordane | 3 | 33 | ND | - | 1.71E-04 | NA | 1.16E-03 | 4.94E-04 |
| Endosulfan II | 3 | 33 | ND | - | 9.96E-04 | NA | 1.43E-03 | 2.19E-04 |
| Hexachlorobenzene | 3 | 67 | 1.44E-04 | - | 5.80E-04 | 3.62E-04 | 2.47E-04 | 1.70E-04 |
| O,P'-DDD | 3 | 100 | 2.14E-03 | - | 2.00E-02 | 9.47E-03 | 1.05E-02 | 5.18E-03 |
| O,P'-DDT | 3 | 100 | 1.03E-02 | - | 2.92E-02 | 2.19E-02 | 2.04E-02 | 5.50E-03 |
| Oxychlordane | 3 | 33 | ND | - | 3.24E-04 | NA | 9.46E-04 | 3.87E-04 |
| Pentachlorobenzene | 3 | 100 | 7.00E-05 | - | 3.81E-03 | 3.73E-03 | 2.54E-03 | 1.23E-03 |
| Trans-Nonachlor | 3 | 33 | ND | - | 3.76E-04 | NA | 1.23E-03 | 4.26E-04 |
| **Mallard Liver** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Range Maximum** | **Median** | **Arithmetic Mean[2]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 3 | 100 | 7.74E-04 | - | 1.84E-02 | 1.74E-02 | 1.22E-02 | 5.72E-03 |
| 1,2,4,5-Tetrachlorobenzene | 3 | 67 | ND | - | 1.12E-02 | 1.10E-02 | 9.54E-03 | 1.50E-03 |
| 4,4'-DDD | 3 | 100 | 1.68E-03 | - | 6.76E-03 | 5.93E-03 | 4.79E-03 | 1.57E-03 |
| 4,4'-DDE | 3 | 100 | 2.08E-02 | - | 5.66E-02 | 4.40E-02 | 4.05E-02 | 1.05E-02 |
| Chlorpyrifos | 3 | 67 | ND | - | 4.15E-03 | 3.64E-03 | 4.60E-03 | 1.01E-03 |
| Cis-Nonachlor | 3 | 67 | ND | - | 6.98E-04 | 6.88E-04 | 2.64E-03 | 1.95E-03 |
| Dieldrin | 3 | 67 | ND | - | 2.13E-03 | 1.84E-03 | 3.41E-03 | 1.57E-03 |
| Endosulfan II | 3 | 100 | 4.87E-04 | - | 2.95E-03 | 1.19E-03 | 1.54E-03 | 7.34E-04 |
| Gamma BHC (Lindane) | 3 | 67 | ND | - | 6.93E-04 | 6.20E-04 | 2.59E-03 | 1.97E-03 |
| Heptachlor epoxide | 3 | 100 | 4.31E-04 | - | 1.18E-03 | 6.56E-04 | 7.57E-04 | 2.23E-04 |
| Hexachlorobenzene | 3 | 67 | ND | - | 1.26E-03 | 1.16E-03 | 2.95E-03 | 1.79E-03 |
| O,P'-DDD | 3 | 100 | 4.56E-03 | - | 4.34E-02 | 3.83E-02 | 2.88E-02 | 1.22E-02 |
| O,P'-DDT | 3 | 100 | 2.07E-02 | - | 6.17E-02 | 5.19E-02 | 4.48E-02 | 1.24E-02 |
| Pentachlorobenzene | 3 | 100 | 3.48E-04 | - | 1.16E-02 | 1.02E-02 | 7.38E-03 | 3.54E-03 |
| Trans-Nonachlor | 3 | 100 | 5.17E-04 | - | 6.87E-03 | 6.37E-03 | 4.59E-03 | 2.04E-03 |

# Table C-50
## Pesticide Data Summary Table for Waterfowl

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| | Wood Duck Breast[a] | | | | | | |
|---|---|---|---|---|---|---|---|
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2] | Standard Error |
| 1,2,3,4-Tetrachlorobenzene | 9 | 89 | ND | - | 2.24E-03 | 6.13E-04 | 8.07E-04 | 2.69E-04 |
| 1,2,4,5-Tetrachlorobenzene | 9 | 67 | ND | - | 1.27E-03 | 6.19E-04 | 1.03E-03 | 1.83E-04 |
| 4,4'-DDD | 9 | 100 | 9.65E-04 | - | 5.43E-03 | 2.66E-03 | 3.04E-03 | 4.54E-04 |
| 4,4'-DDE | 9 | 100 | 1.19E-02 | - | 4.03E-02 | 2.58E-02 | 2.46E-02 | 3.04E-03 |
| Alpha-BHC | 9 | 22 | ND | - | 1.97E-04 | 1.93E-04 | 1.18E-03 | 2.07E-04 |
| Alpha-Chlordane | 9 | 44 | ND | - | 4.55E-04 | 4.11E-04 | 1.09E-03 | 2.21E-04 |
| Chlorpyrifos | 9 | 11 | ND | - | 3.25E-04 | NA | 1.17E-03 | 2.09E-04 |
| Delta-BHC | 9 | 33 | ND | - | 4.70E-05 | 4.10E-05 | 1.03E-03 | 2.59E-04 |
| Endosulfan II | 9 | 44 | ND | - | 8.37E-04 | 8.01E-04 | 1.12E-03 | 1.72E-04 |
| Endrin | 9 | 11 | ND | - | 2.14E-04 | NA | 1.26E-03 | 1.70E-04 |
| Heptachlor | 9 | 11 | ND | - | 2.25E-04 | NA | 1.28E-03 | 1.66E-04 |
| Hexachlorobenzene | 9 | 100 | 1.32E-04 | - | 5.49E-04 | 2.64E-04 | 2.74E-04 | 4.10E-05 |
| O,P'-DDD | 9 | 100 | 9.81E-03 | - | 2.41E-02 | 1.37E-02 | 1.53E-02 | 1.68E-03 |
| O,P'-DDE | 9 | 33 | ND | - | 6.55E-04 | 4.47E-04 | 1.18E-03 | 1.90E-04 |
| O,P'-DDT | 9 | 100 | 1.74E-02 | - | 6.81E-02 | 5.16E-02 | 4.36E-02 | 6.23E-03 |
| Oxychlordane | 9 | 56 | ND | - | 3.13E-03 | 1.60E-03 | 1.58E-03 | 2.59E-04 |
| Pentachlorobenzene | 9 | 100 | 2.27E-04 | - | 1.09E-03 | 7.33E-04 | 6.83E-04 | 1.04E-04 |
| Trans-Nonachlor | 9 | 33 | ND | - | 4.95E-04 | 3.65E-04 | 9.67E-04 | 2.30E-04 |

| | Wood Duck Liver | | | | | | |
|---|---|---|---|---|---|---|---|
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2] | Standard Error |
| 1,2,3,4-Tetrachlorobenzene | 8 | 100 | 1.26E-03 | - | 7.98E-03 | 4.27E-03 | 4.05E-03 | 8.43E-04 |
| 1,2,4,5-Tetrachlorobenzene | 8 | 75 | ND | - | 1.38E-02 | 6.48E-03 | 7.06E-03 | 1.04E-03 |
| 4,4'-DDD | 8 | 100 | 9.86E-04 | - | 1.27E-02 | 3.51E-03 | 4.60E-03 | 1.27E-03 |
| 4,4'-DDE | 8 | 100 | 2.11E-02 | - | 1.01E-01 | 3.42E-02 | 4.65E-02 | 1.13E-02 |
| 4,4'-DDT | 8 | 13 | ND | - | 1.75E-03 | NA | 6.04E-03 | 7.26E-04 |
| Aldrin | 8 | 13 | ND | - | 2.19E-03 | NA | 6.09E-03 | 6.81E-04 |
| Alpha-BHC | 8 | 13 | ND | - | 8.06E-04 | NA | 6.03E-03 | 8.32E-04 |
| Alpha-Chlordane | 8 | 88 | ND | - | 3.84E-03 | 1.68E-03 | 2.83E-03 | 7.23E-04 |
| Beta-BHC | 8 | 50 | ND | - | 2.12E-03 | 8.36E-04 | 3.54E-03 | 9.67E-04 |
| Chlorpyrifos | 8 | 63 | ND | - | 4.16E-03 | 1.06E-03 | 3.52E-03 | 1.00E-03 |
| Cis-Nonachlor | 8 | 63 | ND | - | 5.95E-04 | 3.89E-04 | 2.69E-03 | 1.14E-03 |
| Delta-BHC | 8 | 38 | ND | - | 8.26E-04 | 2.85E-04 | 4.52E-03 | 1.25E-03 |
| Dieldrin | 8 | 50 | ND | - | 2.31E-03 | 1.27E-03 | 4.32E-03 | 1.16E-03 |
| Endosulfan II | 8 | 88 | ND | - | 3.23E-03 | 2.00E-03 | 2.68E-03 | 6.46E-04 |
| Endrin | 8 | 25 | ND | - | 7.66E-04 | 5.49E-04 | 4.44E-03 | 1.21E-03 |
| Gamma BHC (Lindane) | 8 | 100 | 1.05E-04 | - | 1.66E-03 | 5.54E-04 | 7.27E-04 | 2.04E-04 |
| Heptachlor epoxide | 8 | 25 | ND | - | 6.40E-04 | 5.83E-04 | 5.31E-03 | 1.09E-03 |
| Hexachlorobenzene | 8 | 88 | ND | - | 1.85E-03 | 8.12E-04 | 1.63E-03 | 7.39E-04 |
| O,P'-DDD | 8 | 100 | 9.15E-03 | - | 5.43E-02 | 1.56E-02 | 2.32E-02 | 5.88E-03 |
| O,P'-DDT | 8 | 100 | 1.97E-02 | - | 1.28E-01 | 3.49E-02 | 5.34E-02 | 1.36E-02 |
| Pentachloroanisole | 8 | 25 | ND | - | 8.05E-04 | 5.11E-04 | 8.90E-04 | 7.04E-04 |
| Pentachlorobenzene | 8 | 100 | 3.25E-04 | - | 3.13E-03 | 1.63E-03 | 1.74E-03 | 3.88E-04 |
| Trans-Nonachlor | 8 | 38 | ND | - | 9.42E-04 | 7.01E-04 | 4.66E-03 | 1.21E-03 |

# Table C-50
## Pesticide Data Summary Table for Waterfowl

**Sample Location - REACH 6 - HOUSATONIC RIVER - WOODS POND**

**Sample Year:** 1998

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Mallard Breast** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 2 | 100 | 1.35E-03 | - | 9.10E-03 | 5.22E-03 | 5.22E-03 | 3.87E-03 |
| 1,2,4,5-Tetrachlorobenzene | 2 | 100 | 9.12E-04 | - | 2.14E-03 | 1.52E-03 | 1.52E-03 | 6.11E-04 |
| 4,4'-DDD | 2 | 50 | ND | - | 7.70E-03 | NA | 4.46E-03 | 3.24E-03 |
| 4,4'-DDE | 2 | 100 | 3.22E-02 | - | 1.33E-01 | 8.26E-02 | 8.26E-02 | 5.04E-02 |
| Chlorpyrifos | 2 | 50 | ND | - | 6.40E-05 | NA | 6.45E-04 | 5.81E-04 |
| Cis-Nonachlor | 2 | 100 | 1.91E-04 | - | 1.26E-03 | 7.25E-04 | 7.25E-04 | 5.33E-04 |
| Dieldrin | 2 | 50 | ND | - | 1.70E-02 | NA | 8.73E-03 | 8.63E-03 |
| Hexachlorobenzene | 2 | 100 | 7.59E-04 | - | 8.34E-04 | 7.97E-04 | 7.97E-04 | 3.75E-05 |
| Mirex | 2 | 100 | 4.70E-05 | - | 1.32E-04 | 8.95E-05 | 8.95E-05 | 4.25E-05 |
| O,P'-DDD | 2 | 50 | ND | - | 2.10E-02 | NA | 1.12E-02 | 9.95E-03 |
| O,P'-DDT | 2 | 100 | 3.43E-02 | - | 1.89E-01 | 1.11E-01 | 1.11E-01 | 7.71E-02 |
| Pentachlorobenzene | 2 | 100 | 1.18E-03 | - | 7.33E-03 | 4.25E-03 | 4.25E-03 | 3.08E-03 |
| Trans-Nonachlor | 2 | 100 | 9.30E-04 | - | 1.76E-03 | 1.34E-03 | 1.34E-03 | 4.13E-04 |
| **Mallard Liver** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Range Maximum** | **Median** | **Arithmetic Mean[2]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 2 | 100 | 1.15E-03 | - | 2.22E-02 | 1.17E-02 | 1.17E-02 | 1.05E-02 |
| 1,2,4,5-Tetrachlorobenzene | 2 | 50 | ND | - | 1.40E-02 | NA | 7.22E-03 | 6.72E-03 |
| 4,4'-DDD | 2 | 100 | 3.66E-03 | - | 5.87E-03 | 4.77E-03 | 4.77E-03 | 1.11E-03 |
| 4,4'-DDE | 2 | 100 | 5.11E-02 | - | 8.06E-02 | 6.59E-02 | 6.59E-02 | 1.48E-02 |
| Chlorpyrifos | 2 | 50 | ND | - | 2.60E-03 | NA | 1.57E-03 | 1.07E-03 |
| Cis-Nonachlor | 2 | 100 | 3.87E-04 | - | 5.93E-04 | 4.90E-04 | 4.90E-04 | 1.03E-04 |
| Delta-BHC | 2 | 50 | ND | - | 3.60E-04 | NA | 4.31E-04 | 6.90E-02 |
| Dieldrin | 2 | 50 | ND | - | 1.90E-03 | NA | 1.21E-03 | 7.07E-04 |
| Endosulfan II | 2 | 50 | ND | - | 2.90E-02 | NA | 1.46E-02 | 1.41E-02 |
| Gamma BHC (Lindane) | 2 | 100 | 9.50E-05 | - | 1.38E-04 | 1.17E-04 | 1.17E-04 | 2.15E-05 |
| Hexachlorobenzene | 2 | 100 | 8.51E-04 | - | 1.83E-03 | 1.34E-03 | 1.34E-03 | 4.91E-04 |
| O,P'-DDD | 2 | 100 | 1.14E-02 | - | 2.67E-02 | 1.90E-02 | 1.90E-02 | 7.66E-03 |
| O,P'-DDT | 2 | 100 | 4.80E-02 | - | 7.93E-02 | 6.37E-02 | 6.37E-02 | 1.56E-02 |
| Pentachloroanisole | 2 | 50 | ND | - | 2.20E-04 | NA | 1.36E-04 | 8.25E-05 |
| Pentachlorobenzene | 2 | 100 | 9.59E-04 | - | 1.40E-02 | 7.49E-03 | 7.49E-03 | 6.53E-03 |
| Trans-Nonachlor | 2 | 100 | 3.04E-03 | - | 4.08E-03 | 3.56E-03 | 3.56E-03 | 5.18E-04 |

# Table C-50
# Pesticide Data Summary Table for Waterfowl

**Sample Location - REACH 6 - HOUSATONIC RIVER - WOODS POND**

**Sample Year:** 1998

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Wood Duck Breast[b]** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 14 | 86 | ND | - | 7.64E-03 | 1.12E-03 | 1.52E-03 | 4.98E-04 |
| 1,2,4,5-Tetrachlorobenzene | 14 | 43 | ND | - | 3.89E-03 | 9.38E-04 | 1.53E-03 | 2.08E-04 |
| 4,4'-DDD | 14 | 93 | ND | - | 5.33E-03 | 1.58E-03 | 2.25E-03 | 3.64E-04 |
| 4,4'-DDE | 14 | 100 | 8.64E-03 | - | 4.22E-02 | 1.83E-02 | 2.19E-02 | 2.82E-03 |
| 4,4'-DDT | 14 | 14 | ND | - | 6.80E-03 | 3.45E-03 | 1.84E-03 | 4.01E-04 |
| Aldrin | 14 | 7 | ND | - | 1.30E-04 | NA | 1.46E-03 | 1.09E-04 |
| Alpha-BHC | 14 | 14 | ND | - | 1.40E-04 | 1.37E-04 | 1.35E-03 | 1.42E-04 |
| Alpha-Chlordane | 14 | 21 | ND | - | 8.50E-04 | 8.00E-05 | 1.24E-03 | 1.77E-04 |
| Beta-BHC | 14 | 7 | ND | - | 1.10E-04 | NA | 1.46E-03 | 1.10E-04 |
| Chlorpyrifos | 14 | 7 | ND | - | 2.60E-04 | NA | 1.47E-03 | 1.00E-04 |
| Cis-Nonachlor | 14 | 14 | ND | - | 1.17E-04 | 8.85E-05 | 1.37E-03 | 1.48E-04 |
| Gamma BHC (Lindane) | 14 | 7 | ND | - | 2.80E-05 | NA | 1.45E-03 | 1.16E-04 |
| Gamma Chlordane | 14 | 7 | ND | - | 1.90E-04 | NA | 1.46E-03 | 1.05E-04 |
| Heptachlor | 14 | 7 | ND | - | 8.10E-05 | NA | 1.46E-03 | 1.12E-04 |
| Heptachlor epoxide | 14 | 7 | ND | - | 1.90E-04 | NA | 1.46E-03 | 1.05E-04 |
| Hexachlorobenzene | 14 | 100 | 1.93E-04 | - | 1.07E-03 | 4.76E-04 | 4.93E-04 | 6.01E-05 |
| Mirex | 14 | 7 | ND | - | 3.10E-04 | NA | 1.37E-03 | 1.38E-04 |
| O,P'-DDD | 14 | 100 | 2.04E-03 | - | 2.36E-02 | 9.27E-03 | 1.03E-02 | 1.52E-03 |
| O,P'-DDT | 14 | 100 | 6.65E-03 | - | 8.21E-02 | 2.74E-02 | 3.54E-02 | 5.77E-03 |
| Oxychlordane | 14 | 64 | ND | - | 2.48E-03 | 1.06E-03 | 1.25E-03 | 1.72E-04 |
| Pentachlorobenzene | 14 | 100 | 7.90E-05 | - | 4.18E-03 | 7.24E-04 | 1.29E-03 | 3.48E-04 |
| Trans-Nonachlor | 14 | 43 | ND | - | 8.70E-04 | 4.95E-04 | 1.13E-03 | 1.52E-04 |
| **Wood Duck Liver** | | | | | | | | |
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2] | Standard Error |
| 1,2,3,4-Tetrachlorobenzene | 12 | 100 | 1.92E-03 | - | 2.69E-02 | 6.95E-03 | 8.93E-03 | 2.17E-03 |
| 1,2,4,5-Tetrachlorobenzene | 12 | 92 | ND | - | 2.00E-02 | 9.03E-03 | 9.06E-03 | 1.33E-03 |
| 4,4'-DDD | 12 | 83 | ND | - | 9.29E-03 | 3.60E-03 | 3.54E-03 | 8.85E-04 |
| 4,4'-DDE | 12 | 100 | 3.63E-03 | - | 9.51E-02 | 1.65E-02 | 2.99E-02 | 9.51E-03 |
| Alpha-Chlordane | 12 | 42 | ND | - | 2.23E-02 | 2.83E-03 | 5.59E-03 | 1.94E-03 |
| Beta-BHC | 12 | 67 | ND | - | 7.18E-03 | 4.30E-03 | 5.17E-03 | 1.08E-03 |
| Chlorpyrifos | 12 | 58 | ND | - | 7.76E-03 | 1.45E-03 | 4.27E-03 | 1.21E-03 |
| Cis-Nonachlor | 12 | 58 | ND | - | 2.56E-03 | 6.63E-04 | 3.07E-03 | 1.19E-03 |
| Delta-BHC | 12 | 50 | ND | - | 1.24E-03 | 6.45E-04 | 2.91E-03 | 1.29E-03 |
| Dieldrin | 12 | 67 | ND | - | 6.00E-02 | 1.48E-03 | 1.05E-02 | 5.03E-03 |
| Endosulfan II | 12 | 17 | ND | - | 2.00E-03 | 1.89E-03 | 3.65E-03 | 1.24E-03 |
| Endrin | 12 | 33 | ND | - | 1.14E-03 | 3.02E-04 | 3.31E-03 | 1.26E-03 |
| Gamma BHC (Lindane) | 12 | 100 | 9.00E-05 | - | 7.44E-03 | 1.99E-03 | 2.45E-03 | 6.20E-04 |
| Heptachlor epoxide | 12 | 17 | ND | - | 1.20E-03 | 8.35E-04 | 3.95E-03 | 1.25E-03 |
| Hexachlorobenzene | 12 | 83 | ND | - | 3.38E-03 | 1.71E-03 | 1.69E-03 | 2.44E-04 |
| O,P'-DDD | 12 | 75 | ND | - | 8.55E-02 | 1.39E-02 | 2.00E-02 | 7.15E-03 |
| O,P'-DDE | 12 | 25 | ND | - | 8.65E-03 | 4.37E-03 | 5.71E-03 | 1.10E-03 |
| O,P'-DDT | 12 | 83 | ND | - | 1.40E-01 | 2.41E-02 | 3.82E-02 | 1.29E-02 |
| Oxychlordane | 12 | 8 | ND | - | 1.40E-02 | NA | 4.97E-03 | 1.48E-03 |
| Pentachloroanisole | 12 | 25 | ND | - | 1.70E-04 | 1.30E-04 | 2.27E-03 | 1.29E-03 |
| Pentachlorobenzene | 12 | 83 | ND | - | 6.76E-03 | 1.71E-03 | 2.38E-03 | 6.12E-04 |
| Trans-Nonachlor | 12 | 42 | ND | - | 3.04E-03 | 1.16E-03 | 3.18E-03 | 1.18E-03 |

Notes:

1. EPA collected all samples included in this data summary table. Samples are individuals.
2. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
3. Units are mg/Kg or ppm.
4. ND = Not Detected.
5. NA = Not Available.

[a] Includes one duplicate breast sample.

[b] Includes two duplicate breast samples.

General Electric Company
Housatonic River - Rest of River
RFI Report

# Table C-51
# PCDD/PCDF Data Summary Table for Tree Swallows

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| | Tree Swallow (Breast) | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDD | 3 | 100 | 7.50E-06 | - | 2.14E-05 | 1.47E-05 | 1.45E-05 | 4.01E-06 |
| 1,2,3,4,6,7,8-HPCDF | 3 | 67 | ND | - | 5.30E-06 | 4.30E-06 | 4.50E-06 | 6.11E-07 |
| 1,2,3,4,7,8,9-HPCDF | 3 | 33 | ND | - | 7.00E-07 | NA | 3.18E-06 | 1.27E-06 |
| 1,2,3,4,7,8-HXCDD | 3 | 67 | ND | - | 3.30E-06 | 2.60E-06 | 3.37E-06 | 8.67E-07 |
| 1,2,3,4,7,8-HXCDF | 3 | 100 | 4.00E-06 | - | 1.56E-05 | 8.40E-06 | 9.33E-06 | 3.38E-06 |
| 1,2,3,6,7,8-HXCDD | 3 | 100 | 3.40E-06 | - | 8.80E-06 | 6.20E-06 | 6.13E-06 | 1.56E-06 |
| 1,2,3,6,7,8-HXCDF | 3 | 100 | 6.40E-06 | - | 2.20E-05 | 1.81E-05 | 1.55E-05 | 4.69E-06 |
| 1,2,3,7,8,9-HXCDD | 3 | 33 | ND | - | 2.80E-06 | NA | 3.88E-06 | 6.07E-07 |
| 1,2,3,7,8-PECDF | 3 | 100 | 8.80E-06 | - | 6.00E-05 | 5.53E-05 | 4.14E-05 | 1.63E-05 |
| 2,3,4,6,7,8-HXCDF | 3 | 100 | 2.80E-06 | - | 1.02E-05 | 7.70E-06 | 6.90E-06 | 2.17E-06 |
| 2,3,4,7,8-PECDF | 3 | 100 | 2.23E-05 | - | 1.14E-04 | 5.79E-05 | 6.46E-05 | 2.66E-05 |
| 2,3,7,8-TCDD | 3 | 67 | ND | - | 6.60E-06 | 4.40E-06 | 3.20E-06 | 1.75E-06 |
| 2,3,7,8-TCDF | 3 | 100 | 8.70E-05 | - | 5.07E-04 | 1.92E-04 | 2.62E-04 | 1.26E-04 |
| OCDD | 3 | 100 | 7.40E-06 | - | 1.96E-05 | 1.25E-05 | 1.32E-05 | 3.54E-06 |
| WHO TEQ (Human/Mammal) | 3 | -- | 3.07E-05 | - | 1.28E-04 | 6.11E-05 | 7.32E-05 | 2.87E-05 |

| | Tree Swallow (Egg) | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDD | 3 | 100 | 3.05E-05 | - | 3.71E-05 | 3.09E-05 | 3.28E-05 | 2.14E-06 |
| 1,2,3,4,6,7,8-HPCDF | 3 | 67 | ND | - | 1.27E-05 | 1.08E-05 | 1.02E-05 | 1.25E-06 |
| 1,2,3,4,7,8-HXCDD | 3 | 33 | ND | - | 7.00E-06 | NA | 9.95E-06 | 1.48E-06 |
| 1,2,3,4,7,8-HXCDF | 3 | 100 | 1.44E-05 | - | 1.99E-05 | 1.79E-05 | 1.74E-05 | 1.61E-06 |
| 1,2,3,6,7,8-HXCDD | 3 | 100 | 1.98E-05 | - | 2.28E-05 | 2.09E-05 | 2.12E-05 | 8.76E-07 |
| 1,2,3,6,7,8-HXCDF | 3 | 100 | 3.70E-05 | - | 4.21E-05 | 3.92E-05 | 3.94E-05 | 1.48E-06 |
| 1,2,3,7,8,9-HXCDD | 3 | 67 | ND | - | 3.80E-06 | 3.20E-06 | 5.93E-06 | 2.76E-06 |
| 1,2,3,7,8-PECDF | 3 | 100 | 4.21E-05 | - | 5.20E-05 | 4.61E-05 | 4.67E-05 | 2.88E-06 |
| 2,3,4,6,7,8-HXCDF | 3 | 100 | 9.10E-06 | - | 1.35E-05 | 1.16E-05 | 1.14E-05 | 1.27E-06 |
| 2,3,4,7,8-PECDF | 3 | 100 | 7.49E-05 | - | 9.17E-05 | 8.48E-05 | 8.38E-05 | 4.88E-06 |
| 2,3,7,8-TCDD | 3 | 100 | 5.20E-06 | - | 7.30E-06 | 6.90E-06 | 6.47E-06 | 6.44E-07 |
| 2,3,7,8-TCDF | 3 | 100 | 2.98E-04 | - | 4.95E-04 | 3.20E-04 | 3.71E-04 | 6.24E-05 |
| OCDD | 3 | 100 | 2.86E-05 | - | 4.79E-05 | 3.53E-05 | 3.73E-05 | 5.66E-06 |
| WHO TEQ (Human/Mammal) | 3 | -- | 9.94E-05 | - | 1.22E-04 | 1.11E-04 | 1.11E-04 | 6.49E-06 |

# Table C-51
## PCDD/PCDF Data Summary Table for Tree Swallows

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Tree Swallow (Breast)** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 3 | 100 | 9.80E-06 | - | 2.24E-05 | 1.14E-05 | 1.45E-05 | 3.96E-06 |
| 1,2,3,4,6,7,8-HPCDF | 3 | 100 | 4.50E-06 | - | 5.90E-06 | 5.00E-06 | 5.13E-06 | 4.10E-07 |
| 1,2,3,4,7,8,9-HPCDF | 3 | 33 | ND | - | 9.00E-07 | NA | 1.79E-06 | 4.47E-07 |
| 1,2,3,4,7,8-HXCDD | 3 | 33 | ND | - | 1.00E-06 | NA | 1.78E-06 | 3.94E-07 |
| 1,2,3,4,7,8-HXCDF | 3 | 100 | 8.80E-06 | - | 1.42E-05 | 9.70E-06 | 1.09E-05 | 1.67E-06 |
| 1,2,3,6,7,8-HXCDD | 3 | 100 | 2.60E-06 | - | 2.23E-05 | 2.60E-06 | 9.17E-06 | 6.57E-06 |
| 1,2,3,6,7,8-HXCDF | 3 | 67 | ND | - | 3.40E-06 | 3.30E-06 | 2.94E-06 | 3.67E-07 |
| 1,2,3,7,8,9-HXCDD | 3 | 67 | ND | - | 1.10E-06 | 7.50E-07 | 1.19E-06 | 4.85E-07 |
| 1,2,3,7,8,9-HXCDF | 3 | 33 | ND | - | 3.00E-07 | NA | 1.59E-06 | 6.47E-07 |
| 1,2,3,7,8-PECDD | 3 | 33 | ND | - | 4.70E-06 | NA | 2.99E-06 | 8.54E-07 |
| 1,2,3,7,8-PECDF | 3 | 100 | 1.59E-05 | - | 3.86E-05 | 1.66E-05 | 2.37E-05 | 7.45E-06 |
| 2,3,4,6,7,8-HXCDF | 3 | 100 | 6.00E-06 | - | 6.20E-06 | 6.10E-06 | 6.10E-06 | 5.77E-08 |
| 2,3,4,7,8-PECDF | 3 | 100 | 3.32E-05 | - | 6.31E-05 | 3.35E-05 | 4.33E-05 | 9.92E-06 |
| 2,3,7,8-TCDD | 3 | 100 | 1.90E-06 | - | 3.80E-06 | 3.70E-06 | 3.13E-06 | 6.17E-07 |
| 2,3,7,8-TCDF | 3 | 100 | 1.02E-04 | - | 2.27E-04 | 1.03E-04 | 1.44E-04 | 4.13E-05 |
| OCDD | 3 | 100 | 8.00E-06 | - | 2.11E-05 | 1.23E-05 | 1.38E-05 | 3.86E-06 |
| WHO TEQ (Human/Mammal) | 3 | -- | 3.44E-05 | - | 6.74E-05 | 3.90E-05 | 4.69E-05 | 1.03E-05 |
| **Tree Swallow (Egg)** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDD | 21 | 52 | ND | - | 2.70E-04 | 6.10E-05 | 6.90E-05 | 1.22E-05 |
| 1,2,3,4,6,7,8-HPCDF | 21 | 67 | ND | - | 2.41E-04 | 1.08E-04 | 9.24E-05 | 1.34E-05 |
| 1,2,3,4,7,8,9-HPCDF | 21 | 5 | ND | - | 5.00E-07 | NA | 4.00E-05 | 4.95E-06 |
| 1,2,3,4,7,8-HXCDD | 21 | 5 | ND | - | 2.80E-05 | NA | 4.12E-05 | 4.60E-06 |
| 1,2,3,4,7,8-HXCDF | 21 | 5 | ND | - | 1.30E-04 | NA | 4.63E-05 | 6.35E-06 |
| 1,2,3,6,7,8-HXCDD | 21 | 5 | ND | - | 6.30E-05 | NA | 4.29E-05 | 4.66E-06 |
| 1,2,3,6,7,8-HXCDF | 21 | 19 | ND | - | 2.14E-05 | 6.90E-06 | 3.71E-05 | 5.35E-06 |
| 1,2,3,7,8,9-HXCDD | 21 | 5 | ND | - | 3.00E-06 | NA | 4.00E-05 | 4.91E-06 |
| 1,2,3,7,8,9-HXCDF | 21 | 5 | ND | - | 4.20E-06 | NA | 3.98E-05 | 4.90E-06 |
| 1,2,3,7,8-PECDD | 21 | 10 | ND | - | 3.29E-05 | 2.33E-05 | 4.51E-05 | 5.46E-06 |
| 1,2,3,7,8-PECDF | 21 | 95 | ND | - | 1.54E-03 | 6.94E-04 | 7.56E-04 | 9.50E-05 |
| 2,3,4,6,7,8-HXCDF | 21 | 10 | ND | - | 2.24E-05 | 1.74E-05 | 3.95E-05 | 4.84E-06 |
| 2,3,4,7,8-PECDF | 21 | 67 | ND | - | 2.42E-04 | 9.91E-05 | 1.00E-04 | 1.25E-05 |
| 2,3,7,8-TCDF | 21 | 71 | ND | - | 9.94E-04 | 3.91E-04 | 3.18E-04 | 5.79E-05 |
| OCDD | 21 | 48 | ND | - | 1.49E-04 | 5.18E-05 | 8.25E-05 | 1.07E-05 |
| OCDF | 21 | 5 | ND | - | 4.10E-05 | NA | 8.22E-05 | 9.27E-06 |
| WHO TEQ (Human/Mammal) | 21 | -- | 1.12E-04 | - | 3.44E-04 | 1.86E-04 | 2.04E-04 | 1.52E-05 |
| **Tree Swallow (GI Tract)** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDD | 3 | 100 | 1.29E-05 | - | 4.66E-05 | 1.51E-05 | 2.49E-05 | 1.09E-05 |
| 1,2,3,4,6,7,8-HPCDF | 3 | 100 | 5.50E-06 | - | 1.58E-05 | 1.27E-05 | 1.13E-05 | 3.05E-06 |
| 1,2,3,4,7,8-HXCDF | 3 | 100 | 3.00E-06 | - | 0.0000076 | 4.50E-06 | 5.03E-06 | 1.35E-06 |
| 1,2,3,6,7,8-HXCDF | 3 | 33 | ND | - | 1.50E-06 | NA | 5.01E-05 | 2.58E-05 |
| 1,2,3,7,8-PECDF | 3 | 100 | 1.31E-05 | - | 1.42E-04 | 4.79E-05 | 6.78E-05 | 3.86E-05 |
| 2,3,4,7,8-PECDF | 3 | 67 | ND | - | 1.55E-05 | 9.20E-06 | 2.42E-05 | 1.55E-05 |
| 2,3,7,8-TCDD | 3 | 33 | ND | - | 3.40E-06 | NA | 1.07E-05 | 4.17E-06 |
| 2,3,7,8-TCDF | 3 | 100 | 1.16E-05 | - | 3.77E-05 | 3.17E-05 | 2.70E-05 | 7.89E-06 |
| OCDD | 3 | 100 | 3.19E-05 | - | 1.83E-04 | 3.83E-05 | 8.44E-05 | 4.93E-05 |
| WHO TEQ (Human/Mammal) | 3 | -- | 1.03E-04 | - | 1.76E-04 | 1.32E-04 | 1.37E-04 | 2.13E-05 |

# Table C-51
## PCDD/PCDF Data Summary Table for Tree Swallows

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Tree Swallow (Breast)** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | 3 | 33 | ND | - | 1.02E-05 | 9.60E-06 | 2.18E-05 | 1.22E-05 |
| 1,2,3,4,6,7,8-HPCDF | 3 | 100 | 4.28E-05 | - | 7.08E-05 | 4.52E-05 | 5.29E-05 | 8.96E-06 |
| 1,2,3,7,8-PECDF | 3 | 100 | 3.25E-04 | - | 4.75E-04 | 3.59E-04 | 3.86E-04 | 4.56E-05 |
| 2,3,4,7,8-PECDF | 3 | 100 | 2.59E-05 | - | 5.71E-05 | 4.74E-05 | 4.35E-05 | 9.22E-06 |
| 2,3,7,8-TCDF | 3 | 100 | 8.76E-05 | - | 2.21E-04 | 1.29E-04 | 1.46E-04 | 3.94E-05 |
| OCDD | 3 | 100 | 7.70E-06 | - | 1.23E-05 | 8.50E-06 | 9.50E-06 | 1.42E-06 |
| WHO TEQ (Human/Mammal) | 3 | 100 | 7.70E-06 | - | 1.23E-05 | 8.50E-06 | 9.50E-06 | 1.42E-06 |
| **Tree Swallow (Egg)** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDD | 23 | 61 | ND | - | 9.61E-05 | 4.29E-05 | 1.64E-04 | 3.24E-05 |
| 1,2,3,4,6,7,8-HPCDF | 23 | 78 | ND | - | 8.14E-04 | 1.39E-04 | 2.56E-04 | 4.27E-05 |
| 1,2,3,4,7,8,9-HPCDF | 23 | 4 | ND | - | 2.10E-06 | NA | 3.62E-04 | 3.35E-05 |
| 1,2,3,4,7,8-HXCDD | 23 | 9 | ND | - | 2.29E-05 | 2.02E-05 | 3.45E-04 | 3.61E-05 |
| 1,2,3,4,7,8-HXCDF | 23 | 9 | ND | - | 6.22E-04 | 3.75E-04 | 3.83E-04 | 3.20E-05 |
| 1,2,3,6,7,8-HXCDD | 23 | 26 | ND | - | 7.86E-05 | 2.98E-05 | 2.90E-04 | 4.29E-05 |
| 1,2,3,6,7,8-HXCDF | 23 | 4 | ND | - | 8.90E-06 | NA | 3.55E-04 | 3.32E-05 |
| 1,2,3,7,8,9-HXCDD | 23 | 4 | ND | - | 9.00E-06 | NA | 3.63E-04 | 3.33E-05 |
| 1,2,3,7,8-PECDD | 23 | 17 | ND | - | 3.04E-05 | 2.15E-05 | 3.12E-04 | 4.04E-05 |
| 1,2,3,7,8-PECDF | 23 | 96 | ND | - | 1.41E-03 | 3.79E-04 | 4.69E-04 | 6.69E-05 |
| 2,3,4,6,7,8-HXCDF | 23 | 13 | ND | - | 3.77E-05 | 2.31E-05 | 3.37E-04 | 3.85E-05 |
| 2,3,4,7,8-PECDF | 23 | 74 | ND | - | 1.73E-04 | 7.90E-05 | 1.93E-04 | 4.43E-05 |
| 2,3,7,8-TCDD | 23 | 22 | ND | - | 1.25E-05 | 7.40E-06 | 5.74E-05 | 7.15E-06 |
| 2,3,7,8-TCDF | 23 | 96 | ND | - | 6.71E-04 | 2.70E-04 | 2.97E-04 | 2.70E-05 |
| OCDD | 23 | 57 | ND | - | 9.70E-05 | 4.68E-05 | 3.46E-04 | 8.18E-05 |
| OCDF | 23 | 9 | ND | - | 1.15E-05 | 1.07E-05 | 6.78E-04 | 7.31E-05 |
| WHO TEQ (Human/Mammal) | 23 | -- | 2.72E-04 | - | 1.78E-03 | 6.44E-04 | 7.20E-04 | 7.57E-05 |
| **Tree Swallow (GI Tract)** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4,6,7,8-HPCDF | 3 | 67 | ND | - | 3.00E-05 | 2.20E-05 | 2.04E-04 | 1.82E-04 |
| 1,2,3,7,8-PECDF | 3 | 67 | ND | - | 8.17E-05 | 5.86E-05 | 1.16E-04 | 5.85E-05 |
| 2,3,7,8-TCDF | 3 | 67 | ND | - | 2.92E-05 | 0.00002295 | 3.29E-05 | 1.05E-05 |
| OCDD | 3 | 33 | ND | - | 4.70E-05 | NA | 5.47E-04 | 3.18E-04 |
| WHO TEQ (Human/Mammal) | 3 | -- | 5.70E-04 | - | 1.38E-03 | 6.47E-04 | 8.67E-04 | 2.60E-04 |

Notes:
1. EPA collected all samples included in this data summary table. Samples are individual.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.
7. -- = Not Applicable.

# Table C-52
## Pesticide Data Summary Table for Tree Swallows

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Tree Swallow (Breast)** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 15 | 100 | 1.40E-02 | - | 9.70E-02 | 4.41E-02 | 4.33E-02 | 5.62E-03 |
| 1,2,4,5-Tetrachlorobenzene | 15 | 100 | 8.87E-03 | - | 4.65E-02 | 1.67E-02 | 1.89E-02 | 2.41E-03 |
| 4,4'-DDD | 15 | 100 | 4.55E-03 | - | 1.45E-02 | 8.03E-03 | 8.72E-03 | 7.32E-04 |
| 4,4'-DDE | 15 | 100 | 7.66E-02 | - | 3.79E-01 | 1.28E-01 | 1.37E-01 | 1.92E-02 |
| 4,4'-DDT | 15 | 100 | 5.50E-04 | - | 4.56E-03 | 1.91E-03 | 2.02E-03 | 2.97E-04 |
| Alpha-BHC | 15 | 93 | ND | - | 5.80E-04 | 3.90E-04 | 4.41E-04 | 4.16E-05 |
| Alpha-Chlordane | 15 | 53 | ND | - | 4.22E-03 | 1.71E-03 | 1.23E-03 | 2.89E-04 |
| Beta-BHC | 15 | 33 | ND | - | 2.20E-04 | 1.80E-04 | 2.83E-04 | 4.98E-05 |
| Chlorpyrifos | 15 | 7 | ND | - | 2.70E-04 | NA | 3.07E-04 | 4.68E-05 |
| Cis-Nonachlor | 15 | 100 | 9.90E-04 | - | 8.23E-03 | 2.21E-03 | 3.25E-03 | 5.78E-04 |
| Delta-BHC | 15 | 73 | ND | - | 1.52E-03 | 2.30E-04 | 4.19E-04 | 1.06E-04 |
| Dieldrin | 15 | 100 | 3.39E-03 | - | 7.90E-03 | 4.61E-03 | 5.09E-03 | 3.53E-04 |
| Endosulfan II | 15 | 7 | ND | - | 1.80E-02 | NA | 1.46E-03 | 1.20E-03 |
| Endrin | 15 | 47 | ND | - | 9.60E-04 | 6.20E-04 | 4.05E-04 | 6.63E-05 |
| Gamma BHC (Lindane) | 15 | 100 | 2.00E-04 | - | 9.50E-04 | 3.50E-04 | 4.27E-04 | 5.00E-05 |
| Gamma Chlordane | 15 | 13 | ND | - | 2.28E-03 | 1.88E-03 | 5.24E-04 | 1.55E-04 |
| Heptachlor | 15 | 13 | ND | - | 5.90E-04 | 4.40E-04 | 3.17E-04 | 4.92E-05 |
| Heptachlor epoxide | 15 | 100 | 7.20E-04 | - | 1.21E-02 | 1.41E-03 | 3.09E-03 | 8.91E-04 |
| Hexachlorobenzene | 15 | 100 | 1.88E-03 | - | 1.70E-02 | 4.28E-03 | 5.97E-03 | 1.15E-03 |
| Mirex | 15 | 33 | ND | - | 1.63E-02 | 5.60E-04 | 1.36E-03 | 1.06E-03 |
| O,P'-DDD | 15 | 100 | 4.10E-04 | - | 8.10E-03 | 2.13E-03 | 2.65E-03 | 5.42E-04 |
| O,P'-DDE | 15 | 13 | ND | - | 2.51E-03 | 1.81E-03 | 4.53E-04 | 1.58E-04 |
| O,P'-DDT | 15 | 100 | 5.60E-04 | - | 1.03E-02 | 1.79E-03 | 2.69E-03 | 6.97E-04 |
| Oxychlordane | 15 | 100 | 3.72E-03 | - | 2.76E-02 | 6.58E-03 | 9.55E-03 | 1.78E-03 |
| Pentachloroanisole | 15 | 93 | ND | - | 2.48E-03 | 8.60E-04 | 9.98E-04 | 1.28E-04 |
| Pentachlorobenzene | 15 | 100 | 1.37E-02 | - | 1.21E-01 | 3.99E-02 | 4.26E-02 | 6.35E-03 |
| Trans-Nonachlor | 15 | 100 | 2.74E-03 | - | 4.11E-02 | 7.00E-03 | 1.07E-02 | 2.51E-03 |
| **Tree Swallow (Egg)** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Range Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 37 | 100 | 2.39E-03 | - | 2.16E-01 | 3.53E-02 | 4.21E-02 | 5.97E-03 |
| 1,2,4,5-Tetrachlorobenzene | 37 | 100 | 1.67E-03 | - | 6.23E-02 | 1.51E-02 | 2.10E-02 | 2.45E-03 |
| 4,4'-DDD | 37 | 97 | ND | - | 5.06E-02 | 1.06E-02 | 1.26E-02 | 1.50E-03 |
| 4,4'-DDE | 37 | 100 | 5.28E-02 | - | 1.04E+00 | 3.16E-01 | 3.61E-01 | 3.33E-02 |
| 4,4'-DDT | 37 | 86 | ND | - | 2.45E-02 | 4.07E-03 | 4.69E-03 | 8.14E-04 |
| Aldrin | 37 | 3 | ND | - | 9.00E-04 | NA | 9.60E-04 | 3.61E-05 |
| Alpha-BHC | 37 | 54 | ND | - | 1.60E-03 | 3.85E-04 | 8.18E-04 | 7.49E-05 |
| Alpha-Chlordane | 37 | 70 | ND | - | 3.54E-02 | 2.12E-03 | 3.50E-03 | 1.00E-03 |
| Beta-BHC | 37 | 35 | ND | - | 3.66E-03 | 3.80E-04 | 9.02E-04 | 9.37E-05 |
| Chlorpyrifos | 37 | 5 | ND | - | 1.68E-03 | 1.60E-03 | 9.93E-04 | 4.36E-05 |
| Cis-Nonachlor | 37 | 100 | 1.44E-03 | - | 4.67E-02 | 6.87E-03 | 1.05E-02 | 1.61E-03 |
| Delta-BHC | 37 | 16 | ND | - | 3.98E-03 | 4.15E-04 | 9.91E-04 | 9.55E-05 |
| Dieldrin | 37 | 95 | ND | - | 8.68E-02 | 8.85E-03 | 1.21E-02 | 2.37E-03 |
| Endosulfan II | 37 | 41 | ND | - | 4.95E-02 | 1.21E-02 | 7.42E-03 | 1.96E-03 |
| Endrin | 37 | 32 | ND | - | 8.42E-03 | 1.50E-03 | 1.33E-03 | 2.13E-04 |
| Gamma BHC (Lindane) | 37 | 100 | 1.40E-04 | - | 1.70E-03 | 4.30E-04 | 5.82E-04 | 6.05E-05 |
| Gamma Chlordane | 37 | 54 | ND | - | 1.84E-02 | 4.62E-03 | 3.64E-03 | 6.61E-04 |
| Heptachlor | 37 | 3 | ND | - | 1.80E-03 | NA | 9.81E-04 | 4.34E-05 |
| Heptachlor epoxide | 37 | 97 | ND | - | 1.43E-01 | 6.97E-03 | 1.53E-02 | 4.08E-03 |
| Hexachlorobenzene | 37 | 100 | 4.50E-04 | - | 3.15E-02 | 6.03E-03 | 8.38E-03 | 1.10E-03 |
| Mirex | 37 | 97 | ND | - | 6.56E-02 | 7.50E-03 | 1.21E-02 | 2.23E-03 |
| O,P'-DDD | 37 | 62 | ND | - | 8.76E-02 | 1.31E-02 | 1.59E-02 | 3.89E-03 |
| O,P'-DDE | 37 | 3 | ND | - | 4.80E-03 | NA | 1.06E-03 | 1.10E-04 |
| O,P'-DDT | 37 | 95 | ND | - | 1.14E-01 | 6.48E-03 | 1.74E-02 | 3.96E-03 |
| Oxychlordane | 37 | 97 | ND | - | 1.42E-01 | 2.29E-02 | 2.98E-02 | 3.94E-03 |
| Pentachloroanisole | 37 | 32 | ND | - | 1.91E-03 | 8.35E-04 | 9.47E-04 | 5.90E-05 |
| Pentachlorobenzene | 37 | 100 | 2.10E-03 | - | 1.66E-01 | 2.90E-02 | 3.52E-02 | 4.50E-03 |
| Trans-Nonachlor | 37 | 100 | 6.00E-04 | - | 1.39E-01 | 1.19E-02 | 2.04E-02 | 3.82E-03 |

# Table C-52
## Pesticide Data Summary Table for Tree Swallows

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Tree Swallow (GI Tract) | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 3 | 100 | 4.41E-03 | - | 1.28E-02 | 1.10E-02 | 9.40E-03 | 2.55E-03 |
| 1,2,4,5-Tetrachlorobenzene | 3 | 100 | 2.88E-03 | - | 5.02E-03 | 4.01E-03 | 3.97E-03 | 6.18E-04 |
| 4,4'-DDD | 3 | 100 | 7.70E-04 | - | 2.78E-03 | 2.32E-03 | 1.96E-03 | 6.08E-04 |
| 4,4'-DDE | 3 | 100 | 1.81E-03 | - | 4.17E-02 | 4.88E-03 | 1.61E-02 | 1.28E-02 |
| 4,4'-DDT | 3 | 67 | ND | - | 1.26E-03 | 1.13E-03 | 1.07E-03 | 9.75E-05 |
| Alpha-BHC | 3 | 67 | ND | - | 5.60E-04 | 4.50E-04 | 6.21E-04 | 1.82E-04 |
| Beta-BHC | 3 | 33 | ND | - | 4.20E-04 | NA | 7.00E-04 | 1.52E-04 |
| Cis-Nonachlor | 3 | 33 | ND | - | 6.80E-04 | NA | 8.62E-04 | 9.10E-05 |
| Delta-BHC | 3 | 33 | ND | - | 1.00E-03 | NA | 9.82E-04 | 2.96E-05 |
| Dieldrin | 3 | 100 | 1.70E-04 | - | 2.50E-03 | 1.22E-03 | 1.30E-03 | 6.74E-04 |
| Gamma BHC (Lindane) | 3 | 33 | ND | - | 2.20E-04 | NA | 7.08E-04 | 2.44E-04 |
| Heptachlor | 3 | 100 | 5.70E-04 | - | 1.64E-03 | 7.50E-04 | 9.87E-04 | 3.31E-04 |
| Heptachlor epoxide | 3 | 67 | ND | - | 5.20E-03 | 4.90E-03 | 3.59E-03 | 1.32E-03 |
| Hexachlorobenzene | 3 | 100 | 1.01E-02 | - | 2.14E-02 | 1.22E-02 | 1.46E-02 | 3.47E-03 |
| O,P'-DDD | 3 | 67 | ND | - | 1.76E-03 | 1.18E-03 | 1.11E-03 | 3.43E-04 |
| O,P'-DDT | 3 | 33 | ND | - | 5.80E-04 | NA | 7.59E-04 | 1.11E-04 |
| Oxychlordane | 3 | 100 | 3.38E-03 | - | 3.71E-03 | 3.40E-03 | 3.50E-03 | 1.07E-04 |
| Pentachloroanisole | 3 | 100 | 3.70E-04 | - | 8.30E-04 | 7.80E-04 | 6.60E-04 | 1.46E-04 |
| Pentachlorobenzene | 3 | 100 | 1.19E-02 | - | 1.79E-02 | 1.36E-02 | 1.45E-02 | 1.76E-03 |
| Trans-Nonachlor | 3 | 100 | 9.60E-04 | - | 2.13E-03 | 1.99E-03 | 1.69E-03 | 3.69E-04 |

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| | Tree Swallow (Breast) | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 15 | 100 | 8.35E-03 | - | 8.88E-02 | 2.00E-02 | 2.97E-02 | 6.17E-03 |
| 1,2,4,5-Tetrachlorobenzene | 15 | 100 | 3.72E-03 | - | 3.32E-02 | 1.31E-02 | 1.46E-02 | 2.20E-03 |
| 4,4'-DDD | 15 | 100 | 7.50E-03 | - | 2.56E-02 | 1.22E-02 | 1.31E-02 | 1.28E-03 |
| 4,4'-DDE | 15 | 100 | 6.72E-02 | - | 2.19E-01 | 1.20E-01 | 1.25E-01 | 1.08E-02 |
| 4,4'-DDT | 15 | 93 | ND | - | 4.73E-03 | 1.51E-03 | 1.70E-03 | 3.36E-04 |
| Aldrin | 15 | 53 | ND | - | 1.46E-03 | 9.04E-04 | 1.52E-03 | 2.21E-04 |
| Alpha-BHC | 15 | 100 | 2.07E-04 | - | 9.32E-04 | 5.23E-04 | 5.64E-04 | 5.72E-05 |
| Alpha-Chlordane | 15 | 13 | ND | - | 9.99E-03 | 8.43E-03 | 3.08E-03 | 5.83E-04 |
| Beta-BHC | 15 | 7 | ND | - | 1.00E-03 | NA | 2.19E-03 | 9.72E-05 |
| Chlorpyrifos | 15 | 60 | ND | - | 7.88E-04 | 4.55E-04 | 1.14E-03 | 2.42E-04 |
| Cis-Nonachlor | 15 | 100 | 1.64E-02 | - | 5.75E-02 | 3.32E-02 | 3.36E-02 | 2.71E-03 |
| Dieldrin | 15 | 93 | ND | - | 5.73E-03 | 2.31E-03 | 2.76E-03 | 3.21E-04 |
| Endosulfan II | 15 | 100 | 1.11E-02 | - | 4.24E-02 | 2.76E-02 | 2.79E-02 | 2.15E-03 |
| Endrin | 15 | 53 | ND | - | 1.73E-03 | 7.48E-04 | 1.50E-03 | 1.96E-04 |
| Gamma BHC (Lindane) | 15 | 100 | 1.45E-04 | - | 1.14E-03 | 2.25E-04 | 3.28E-04 | 6.60E-05 |
| Gamma Chlordane | 15 | 60 | ND | - | 1.13E-03 | 4.43E-04 | 1.20E-03 | 2.29E-04 |
| Heptachlor | 15 | 47 | ND | - | 6.51E-04 | 3.79E-04 | 1.37E-03 | 2.50E-04 |
| Heptachlor epoxide | 15 | 93 | ND | - | 1.56E-02 | 2.20E-03 | 5.06E-03 | 1.39E-03 |
| Hexachlorobenzene | 15 | 100 | 4.53E-04 | - | 6.69E-03 | 2.87E-03 | 2.97E-03 | 4.60E-04 |
| Mirex | 15 | 93 | ND | - | 2.16E-03 | 5.54E-04 | 1.01E-03 | 1.90E-04 |
| O,P'-DDD | 15 | 100 | 6.73E-02 | - | 1.50E-01 | 9.52E-02 | 9.63E-02 | 5.72E-03 |
| O,P'-DDE | 15 | 47 | ND | - | 4.46E-03 | 2.79E-03 | 2.52E-03 | 1.62E-04 |
| O,P'-DDT | 15 | 100 | 6.63E-02 | - | 1.53E-01 | 9.06E-02 | 9.70E-02 | 5.84E-03 |
| Oxychlordane | 15 | 100 | 6.03E-03 | - | 2.48E-02 | 1.16E-02 | 1.31E-02 | 1.42E-03 |
| Pentachloroanisole | 15 | 100 | 1.64E-04 | - | 2.51E-03 | 1.23E-03 | 1.14E-03 | 1.58E-04 |
| Pentachlorobenzene | 15 | 100 | 5.18E-03 | - | 8.94E-02 | 2.32E-02 | 2.70E-02 | 6.01E-03 |
| Trans-Nonachlor | 15 | 100 | 1.88E-03 | - | 3.40E-02 | 6.18E-03 | 1.02E-02 | 2.54E-03 |

# Table C-52
## Pesticide Data Summary Table for Tree Swallows

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1999**

| | Tree Swallow (Egg) | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **Range Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 55 | 100 | 1.46E-02 | 3.85E-01 | 5.01E-02 | 9.22E-02 | 1.31E-02 |
| 1,2,4,5-Tetrachlorobenzene | 55 | 100 | 1.70E-03 | 7.58E-02 | 9.57E-03 | 1.66E-02 | 2.20E-03 |
| 4,4'-DDD | 55 | 100 | 1.11E-02 | 1.01E-01 | 3.40E-02 | 4.04E-02 | 2.89E-03 |
| 4,4'-DDE | 55 | 100 | 1.72E-01 | 1.36E+00 | 4.69E-01 | 4.90E-01 | 2.72E-02 |
| 4,4'-DDT | 55 | 95 | ND | 1.05E-02 | 3.42E-03 | 3.99E-03 | 3.22E-04 |
| Aldrin | 55 | 13 | ND | 3.77E-03 | 2.70E-03 | 8.55E-03 | 4.03E-04 |
| Alpha-BHC | 55 | 85 | ND | 2.12E-03 | 7.51E-04 | 2.37E-03 | 5.11E-04 |
| Alpha-Chlordane | 55 | 9 | ND | 1.17E-02 | 1.03E-02 | 9.90E-03 | 4.03E-04 |
| Beta-BHC | 55 | 44 | ND | 1.80E-03 | 7.27E-04 | 5.97E-03 | 6.45E-04 |
| Chlorpyrifos | 55 | 18 | ND | 2.72E-03 | 5.15E-04 | 7.77E-03 | 4.98E-04 |
| Cis-Nonachlor | 55 | 100 | 9.51E-03 | 1.85E-01 | 5.18E-02 | 6.55E-02 | 5.58E-03 |
| Delta-BHC | 55 | 2 | ND | 4.40E-04 | NA | 9.39E-03 | 3.24E-04 |
| Dieldrin | 55 | 100 | 8.92E-04 | 1.52E-02 | 5.41E-03 | 5.97E-03 | 4.23E-04 |
| Endosulfan II | 55 | 100 | 2.11E-02 | 1.61E-01 | 6.20E-02 | 7.06E-02 | 4.75E-03 |
| Endrin | 55 | 24 | ND | 2.44E-03 | 1.25E-03 | 7.44E-03 | 5.28E-04 |
| Gamma BHC (Lindane) | 55 | 100 | 1.91E-04 | 3.59E-03 | 7.70E-04 | 8.99E-04 | 7.97E-05 |
| Gamma Chlordane | 55 | 22 | ND | 8.71E-04 | 2.98E-04 | 7.60E-03 | 5.80E-04 |
| Heptachlor epoxide | 55 | 87 | ND | 6.72E-02 | 1.47E-02 | 1.73E-02 | 1.94E-03 |
| Hexachlorobenzene | 55 | 100 | 3.38E-03 | 3.36E-02 | 8.17E-03 | 1.06E-02 | 8.54E-04 |
| Mirex | 55 | 100 | 2.37E-03 | 8.05E-02 | 1.03E-02 | 1.49E-02 | 1.81E-03 |
| O,P'-DDD | 55 | 100 | 8.65E-02 | 6.31E-01 | 2.58E-01 | 2.77E-01 | 1.55E-02 |
| O,P'-DDE | 55 | 35 | ND | 2.38E-02 | 1.22E-02 | 1.03E-02 | 5.24E-04 |
| O,P'-DDT | 55 | 100 | 1.17E-01 | 6.57E-01 | 2.69E-01 | 3.03E-01 | 1.68E-02 |
| Oxychlordane | 55 | 100 | 1.49E-02 | 8.54E-02 | 3.66E-02 | 4.07E-02 | 2.29E-03 |
| Pentachloroanisole | 55 | 100 | 3.60E-04 | 6.25E-03 | 1.25E-03 | 1.55E-03 | 1.31E-04 |
| Pentachlorobenzene | 55 | 100 | 1.34E-02 | 2.25E-01 | 3.95E-02 | 6.35E-02 | 7.51E-03 |
| Trans-Nonachlor | 55 | 100 | 5.34E-03 | 9.08E-02 | 1.70E-02 | 2.26E-02 | 2.45E-03 |

| | Tree Swallow (GI Tract) | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **Range Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 6 | 100 | 9.21E-04 | 3.13E-02 | 1.34E-02 | 1.42E-02 | 4.30E-03 |
| 1,2,4,5-Tetrachlorobenzene | 6 | 83 | ND | 1.86E-02 | 3.98E-03 | 7.63E-03 | 2.37E-03 |
| 4,4'-DDD | 6 | 83 | ND | 1.16E-02 | 2.84E-03 | 4.72E-03 | 1.85E-03 |
| 4,4'-DDE | 6 | 100 | 2.92E-03 | 1.24E-01 | 2.25E-02 | 3.51E-02 | 1.84E-02 |
| 4,4'-DDT | 6 | 83 | ND | 6.11E-03 | 3.06E-03 | 3.68E-03 | 1.40E-03 |
| Alpha-BHC | 6 | 100 | 1.42E-04 | 1.02E-03 | 2.19E-04 | 4.51E-04 | 1.62E-04 |
| Alpha-Chlordane | 6 | 33 | ND | 4.01E-02 | 2.90E-02 | 1.75E-02 | 4.89E-03 |
| Chlorpyrifos | 6 | 50 | ND | 6.42E-03 | 1.61E-04 | 5.84E-03 | 1.87E-03 |
| Cis-Nonachlor | 6 | 100 | 1.28E-03 | 4.29E-02 | 1.32E-02 | 1.55E-02 | 6.11E-03 |
| Dieldrin | 6 | 100 | 1.81E-04 | 8.74E-03 | 1.84E-03 | 2.66E-03 | 1.29E-03 |
| Endosulfan II | 6 | 100 | 1.36E-03 | 3.80E-02 | 4.60E-03 | 9.42E-03 | 5.76E-03 |
| Endrin | 6 | 33 | ND | 2.69E-03 | 1.70E-03 | 6.78E-03 | 1.63E-03 |
| Gamma BHC (Lindane) | 6 | 33 | ND | 4.96E-04 | 3.50E-04 | 6.42E-03 | 1.93E-03 |
| Gamma Chlordane | 6 | 50 | ND | 9.06E-03 | 1.90E-03 | 8.15E-03 | 2.71E-03 |
| Heptachlor | 6 | 100 | 7.80E-05 | 9.61E-04 | 2.01E-04 | 3.13E-04 | 1.39E-04 |
| Heptachlor epoxide | 6 | 83 | ND | 1.34E-02 | 3.83E-03 | 5.53E-03 | 1.95E-03 |
| Hexachlorobenzene | 6 | 100 | 2.80E-04 | 3.36E-03 | 1.15E-03 | 1.47E-03 | 4.82E-04 |
| Mirex | 6 | 50 | ND | 1.32E-03 | 7.79E-04 | 5.06E-03 | 1.89E-03 |
| O,P'-DDD | 6 | 100 | 5.30E-03 | 1.17E-01 | 2.87E-02 | 3.81E-02 | 1.66E-02 |
| O,P'-DDE | 6 | 33 | ND | 6.90E-04 | 4.89E-04 | 8.24E-03 | 2.88E-03 |
| O,P'-DDT | 6 | 100 | 5.97E-03 | 1.17E-01 | 2.80E-02 | 3.73E-02 | 1.67E-02 |
| Oxychlordane | 6 | 50 | ND | 7.15E-03 | 6.93E-03 | 7.97E-03 | 6.18E-04 |
| Pentachloroanisole | 6 | 100 | 4.44E-04 | 1.07E-03 | 9.38E-04 | 8.35E-04 | 1.04E-04 |
| Pentachlorobenzene | 6 | 100 | 3.62E-04 | 2.10E-02 | 5.08E-03 | 7.41E-03 | 2.97E-03 |
| Trans-Nonachlor | 6 | 100 | 4.03E-04 | 1.72E-02 | 4.18E-03 | 7.22E-03 | 3.27E-03 |

# Table C-52
## Pesticide Data Summary Table for Tree Swallows

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Tree Swallow (Breast)** | | | | | | | | |
| 1,2,3,4-Tetrachlorobenzene | 20 | 100 | 7.50E-04 | - | 9.64E-02 | 2.70E-02 | 2.94E-02 | 5.76E-03 |
| 1,2,4,5-Tetrachlorobenzene | 20 | 100 | 4.70E-04 | - | 1.74E-02 | 9.04E-03 | 8.57E-03 | 1.25E-03 |
| 4,4'-DDD | 20 | 100 | 2.94E-03 | - | 2.74E-02 | 7.61E-03 | 9.17E-03 | 1.37E-03 |
| 4,4'-DDE | 20 | 100 | 3.94E-02 | - | 1.13E-01 | 6.09E-02 | 6.74E-02 | 4.08E-03 |
| 4,4'-DDT | 20 | 65 | ND | - | 2.18E-03 | 1.49E-03 | 1.72E-03 | 1.33E-04 |
| Aldrin | 20 | 10 | ND | - | 3.95E-04 | 2.67E-04 | 2.19E-03 | 1.78E-04 |
| Alpha-BHC | 20 | 65 | ND | - | 8.72E-04 | 2.07E-04 | 9.92E-04 | 2.35E-04 |
| Alpha-Chlordane | 20 | 5 | ND | - | 2.70E-03 | NA | 2.42E-03 | 1.01E-04 |
| Chlorpyrifos | 20 | 20 | ND | - | 6.83E-04 | 1.44E-04 | 1.98E-03 | 2.22E-04 |
| Cis-Nonachlor | 20 | 100 | 6.81E-04 | - | 7.47E-02 | 1.79E-02 | 2.23E-02 | 4.43E-03 |
| Delta-BHC | 20 | 20 | ND | - | 8.10E-03 | 5.47E-03 | 2.96E-03 | 3.58E-04 |
| Dieldrin | 20 | 100 | 4.89E-04 | - | 6.22E-02 | 1.30E-03 | 8.45E-03 | 3.81E-03 |
| Endosulfan II | 20 | 95 | ND | - | 3.25E-02 | 1.42E-02 | 1.56E-02 | 1.85E-03 |
| Endrin | 20 | 40 | ND | - | 2.37E-04 | 1.28E-04 | 1.53E-03 | 2.80E-04 |
| Gamma BHC (Lindane) | 20 | 75 | ND | - | 3.31E-04 | 1.83E-04 | 7.33E-04 | 2.11E-04 |
| Gamma Chlordane | 20 | 30 | ND | - | 3.39E-04 | 1.14E-04 | 1.73E-03 | 2.58E-04 |
| Heptachlor | 20 | 20 | ND | - | 3.66E-04 | 1.86E-04 | 1.97E-03 | 2.25E-04 |
| Heptachlor epoxide | 20 | 65 | ND | - | 5.41E-03 | 2.03E-03 | 2.23E-03 | 2.91E-04 |
| Hexachlorobenzene | 20 | 100 | 6.50E-04 | - | 7.85E-03 | 2.83E-03 | 3.10E-03 | 3.88E-04 |
| Mirex | 20 | 95 | ND | - | 2.63E-03 | 6.30E-04 | 9.94E-04 | 2.15E-04 |
| O,P'-DDD | 20 | 100 | 2.65E-02 | - | 1.16E-01 | 6.97E-02 | 6.76E-02 | 4.57E-03 |
| O,P'-DDE | 20 | 20 | ND | - | 7.48E-03 | 3.85E-03 | 2.70E-03 | 2.84E-04 |
| O,P'-DDT | 20 | 100 | 5.00E-02 | - | 1.11E-01 | 7.75E-02 | 7.71E-02 | 3.97E-03 |
| Oxychlordane | 20 | 100 | 1.43E-03 | - | 2.47E-02 | 8.54E-03 | 1.05E-02 | 1.54E-03 |
| Pentachloroanisole | 20 | 100 | 1.14E-04 | - | 1.81E-03 | 5.99E-04 | 6.71E-04 | 1.05E-04 |
| Pentachlorobenzene | 20 | 100 | 2.00E-03 | - | 5.09E-02 | 2.09E-02 | 2.04E-02 | 3.12E-03 |
| Trans-Nonachlor | 20 | 100 | 6.81E-04 | - | 1.73E-02 | 5.63E-03 | 6.50E-03 | 1.00E-03 |
| **Tree Swallow (Egg)** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Range Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 40 | 100 | 1.05E-03 | - | 1.97E-01 | 2.08E-02 | 4.41E-02 | 8.36E-03 |
| 1,2,4,5-Tetrachlorobenzene | 40 | 98 | ND | - | 1.03E-01 | 1.63E-02 | 1.86E-02 | 2.57E-03 |
| 4,4'-DDD | 40 | 100 | 2.82E-03 | - | 7.19E-02 | 1.99E-02 | 2.52E-02 | 2.86E-03 |
| 4,4'-DDE | 40 | 100 | 5.57E-02 | - | 7.45E-01 | 3.32E-01 | 3.56E-01 | 2.69E-02 |
| 4,4'-DDT | 40 | 98 | ND | - | 2.97E-02 | 2.18E-03 | 3.36E-03 | 7.81E-04 |
| Alpha-BHC | 40 | 55 | ND | - | 7.83E-04 | 2.79E-04 | 4.62E-03 | 7.26E-04 |
| Alpha-Chlordane | 40 | 15 | ND | - | 3.56E-02 | 4.97E-03 | 1.00E-02 | 8.10E-04 |
| Beta-BHC | 40 | 48 | ND | - | 1.32E-03 | 3.17E-04 | 5.58E-03 | 8.62E-04 |
| Chlorpyrifos | 40 | 18 | ND | - | 3.86E-04 | 2.00E-04 | 8.25E-03 | 6.88E-04 |
| Cis-Nonachlor | 40 | 53 | ND | - | 3.90E-02 | 1.42E-02 | 1.29E-02 | 1.33E-03 |
| Delta-BHC | 40 | 85 | ND | - | 1.98E-02 | 3.98E-03 | 5.73E-03 | 6.96E-04 |
| Dieldrin | 40 | 100 | 2.55E-03 | - | 6.55E-02 | 1.37E-02 | 2.18E-02 | 2.93E-03 |
| Endosulfan II | 40 | 40 | ND | - | 4.07E-02 | 1.65E-02 | 1.31E-02 | 1.10E-03 |
| Endrin | 40 | 3 | ND | - | 2.00E-03 | NA | 9.65E-03 | 4.06E-04 |
| Gamma BHC (Lindane) | 40 | 65 | ND | - | 1.67E-03 | 6.65E-04 | 4.08E-03 | 8.16E-04 |
| Gamma Chlordane | 40 | 8 | ND | - | 1.22E-03 | 2.75E-04 | 9.18E-03 | 5.30E-04 |
| Heptachlor | 40 | 10 | ND | - | 1.09E-03 | 1.05E-03 | 8.99E-03 | 5.58E-04 |
| Heptachlor epoxide | 40 | 93 | ND | - | 4.92E-02 | 1.13E-02 | 1.40E-02 | 1.86E-03 |
| Hexachlorobenzene | 40 | 100 | 8.30E-04 | - | 2.14E-02 | 5.77E-03 | 7.59E-03 | 8.30E-04 |
| Mirex | 40 | 100 | 4.77E-04 | - | 2.35E-01 | 6.52E-03 | 1.46E-02 | 5.77E-03 |
| O,P'-DDD | 40 | 100 | 3.51E-02 | - | 5.05E-01 | 1.65E-01 | 2.07E-01 | 2.03E-02 |
| O,P'-DDE | 40 | 48 | ND | - | 2.35E-03 | 1.16E-03 | 5.40E-03 | 6.72E-04 |
| O,P'-DDT | 40 | 100 | 4.99E-02 | - | 5.36E-01 | 2.28E-01 | 2.56E-01 | 2.09E-02 |
| Oxychlordane | 40 | 100 | 2.42E-03 | - | 4.31E-02 | 2.11E-02 | 2.03E-02 | 1.48E-03 |
| Pentachloroanisole | 40 | 100 | 3.25E-04 | - | 2.55E-03 | 9.23E-04 | 1.03E-03 | 9.59E-05 |
| Pentachlorobenzene | 40 | 100 | 2.19E-03 | - | 1.47E-01 | 2.82E-02 | 4.15E-02 | 6.36E-03 |
| Trans-Nonachlor | 40 | 100 | 5.58E-04 | - | 5.75E-02 | 1.26E-02 | 1.36E-02 | 1.84E-03 |

# Table C-52
# Pesticide Data Summary Table for Tree Swallows

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| | Tree Swallow (GI Tract) | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **Range Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-Tetrachlorobenzene | 3 | 100 | 1.36E-02 | 1.79E-02 | 1.45E-02 | 1.53E-02 | 1.30E-03 |
| 1,2,4,5-Tetrachlorobenzene | 3 | 100 | 1.04E-02 | 1.61E-02 | 1.58E-02 | 1.41E-02 | 1.87E-03 |
| 4,4'-DDD | 3 | 100 | 1.65E-03 | 1.82E-03 | 1.71E-03 | 1.73E-03 | 4.88E-05 |
| 4,4'-DDE | 3 | 100 | 1.19E-02 | 1.42E-02 | 1.33E-02 | 1.31E-02 | 6.70E-04 |
| Alpha-BHC | 3 | 100 | 4.33E-04 | 5.55E-04 | 5.38E-04 | 5.09E-04 | 3.82E-05 |
| Cis-Nonachlor | 3 | 100 | 5.52E-03 | 1.43E-02 | 1.07E-02 | 1.02E-02 | 2.55E-03 |
| Delta-BHC | 3 | 100 | 5.66E-04 | 1.29E-03 | 9.06E-04 | 9.20E-04 | 2.09E-04 |
| Dieldrin | 3 | 100 | 4.16E-03 | 1.05E-02 | 6.90E-03 | 7.18E-03 | 1.83E-03 |
| Endosulfan II | 3 | 100 | 1.92E-03 | 3.41E-03 | 2.66E-03 | 2.66E-03 | 4.32E-04 |
| Heptachlor epoxide | 3 | 100 | 8.13E-04 | 1.64E-03 | 8.40E-04 | 1.10E-03 | 2.71E-04 |
| Hexachlorobenzene | 3 | 100 | 1.62E-03 | 1.88E-03 | 1.88E-03 | 1.79E-03 | 8.68E-05 |
| O,P'-DDD | 3 | 100 | 1.38E-02 | 2.72E-02 | 1.87E-02 | 1.99E-02 | 3.92E-03 |
| O,P'-DDE | 3 | 100 | 4.80E-04 | 1.12E-03 | 8.51E-04 | 8.17E-04 | 1.85E-04 |
| O,P'-DDT | 3 | 100 | 1.16E-02 | 2.52E-02 | 1.88E-02 | 1.85E-02 | 3.93E-03 |
| Pentachloroanisole | 3 | 100 | 8.58E-04 | 9.90E-04 | 8.63E-04 | 9.04E-04 | 4.32E-05 |
| Pentachlorobenzene | 3 | 100 | 1.37E-02 | 1.46E-02 | 1.38E-02 | 1.40E-02 | 2.75E-04 |
| Trans-Nonachlor | 3 | 67 | ND | 4.91E-04 | 4.11E-04 | 4.66E-03 | 4.25E-03 |

Notes:

1. EPA collected all samples included in this data summary table. The samples are individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.
7. -- = Not Applicable.

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# Table C-53
# Metals Data Summary Table for Tree Swallows

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1998**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **Tree Swallow (Breast)** | | | | | | | | |
| Aluminum | 14 | 93 | ND | - | 1.53E+01 | 4.42E+00 | 5.10E+00 | 1.17E+00 |
| Aresenic | 14 | 100 | 6.30E-03 | - | 1.95E-01 | 6.29E-02 | 8.29E-02 | 1.43E-02 |
| Barium | 14 | 100 | 2.66E-01 | - | 1.54E+00 | 8.49E-01 | 8.50E-01 | 1.09E-01 |
| Cadmium | 14 | 100 | 1.58E-02 | - | 3.04E-01 | 5.69E-02 | 7.34E-02 | 1.93E-02 |
| Chromium | 14 | 100 | 3.92E-01 | - | 1.37E+00 | 6.53E-01 | 7.25E-01 | 8.02E-02 |
| Copper | 14 | 100 | 6.23E+00 | - | 1.07E+01 | 7.49E+00 | 7.55E+00 | 2.92E-01 |
| Iron | 14 | 100 | 1.67E+02 | - | 3.00E+02 | 2.19E+02 | 2.26E+02 | 1.14E+01 |
| Lead | 14 | 93 | ND | - | 1.51E-01 | 6.64E-02 | 8.38E-02 | 1.76E-02 |
| Magnesium | 14 | 100 | 5.90E+02 | - | 1.04E+03 | 8.21E+02 | 8.11E+02 | 3.60E+01 |
| Manganese | 14 | 100 | 1.68E+00 | - | 5.19E+00 | 2.82E+00 | 3.06E+00 | 3.43E-01 |
| Mercury | 14 | 100 | 2.24E-01 | - | 5.38E-01 | 3.54E-01 | 3.58E-01 | 2.54E-02 |
| Molybdenum | 14 | 100 | 4.40E-01 | - | 1.10E+00 | 8.04E-01 | 7.97E-01 | 5.44E-02 |
| Nickel | 14 | 43 | ND | - | 8.50E-01 | 3.46E-01 | 2.93E-01 | 5.11E-02 |
| Selenium | 14 | 100 | 1.51E+00 | - | 3.50E+00 | 2.30E+00 | 2.35E+00 | 1.28E-01 |
| Strotinum | 14 | 100 | 1.51E+00 | - | 1.19E+01 | 3.32E+00 | 4.58E+00 | 9.00E-01 |
| Vanadium | 14 | 64 | ND | - | 2.71E+00 | 1.43E+00 | 1.00E+00 | 2.52E-01 |
| Zinc | 14 | 100 | 7.62E+01 | - | 1.15E+02 | 9.76E+01 | 9.64E+01 | 3.39E+00 |
| **Tree Swallow (Egg)** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Range Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| Aluminum | 1 | 100 | -- | - | -- | -- | 2.43E+01 | -- |
| Aresenic | 1 | 100 | -- | - | -- | -- | 2.30E-01 | -- |
| Barium | 1 | 100 | -- | - | -- | -- | 1.68E+00 | -- |
| Cadmium | 1 | 100 | -- | - | -- | -- | 7.40E-02 | -- |
| Chromium | 1 | 100 | -- | - | -- | -- | 6.40E-01 | -- |
| Copper | 1 | 100 | -- | - | -- | -- | 7.69E+00 | -- |
| Iron | 1 | 100 | -- | - | -- | -- | 2.25E+02 | -- |
| Lead | 1 | 100 | -- | - | -- | -- | 9.00E-02 | -- |
| Magnesium | 1 | 100 | -- | - | -- | -- | 1.13E+03 | -- |
| Manganese | 1 | 100 | -- | - | -- | -- | 7.80E+00 | -- |
| Mercury | 1 | 100 | -- | - | -- | -- | 4.10E-01 | -- |
| Molybdenum | 1 | 100 | -- | - | -- | -- | 3.40E-01 | -- |
| Strotinum | 1 | 100 | -- | - | -- | -- | 6.59E+00 | -- |
| Vanadium | 1 | 100 | -- | - | -- | -- | 8.00E-01 | -- |
| Zinc | 1 | 100 | -- | - | -- | -- | 1.14E+02 | -- |

Notes:
1. EPA collected all samples included in this data summary table. Samples are individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Only detected constituents are presented.
5. Units are mg/Kg or ppm.
6. ND = Not Detected.
7. -- = Not Applicable.

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## Table C-54
## Total PAH Data Summary Table for Tree Swallows

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 2000**

| Constituent | Tree Swallow (Breast) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Total PAH Concentration (mg/kg) | | | |
| | No. of Samples[1] | Average Lipid (%) | Frequency of Detection | Range | Median | Arithmetic Mean[2] | Standard Error |
| PAH | 20 | 7.31 | 100% | 1.60E-02 - 4.50E-02 | 2.70E-02 | 2.80E-02 | 1.63E-03 |

Notes:
1. EPA collected samples included in this data summary table. Samples are individuals.
2. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.

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# Table C-55
# Pesticide Data Summary Table for Chickadee

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1999**

| | Chickadee | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range Minimum** | **-** | **Maximum** | **Median** | **Arithmetic Mean[2,3]** | **Standard Error** |
| 1,2,3,4-TETRACHLOROBENZENE | 3 | 100 | 8.07E-04 | - | 4.96E-03 | 1.42E-03 | 2.40E-03 | 1.30E-03 |
| 1,2,4,5-TETRACHLOROBENZENE | 3 | 67 | ND | - | 8.77E-03 | 4.36E-03 | 5.04E-03 | 1.98E-03 |
| 4,4'-DDD | 3 | 100 | 5.98E-03 | - | 1.73E-02 | 6.31E-03 | 9.87E-03 | 3.73E-03 |
| 4,4'-DDE | 3 | 100 | 5.50E-02 | - | 1.05E-01 | 6.38E-02 | 7.47E-02 | 1.55E-02 |
| 4,4'-DDT | 3 | 100 | 1.13E-03 | - | 1.52E-03 | 1.35E-03 | 1.33E-03 | 1.12E-04 |
| ALPHA-BHC | 3 | 67 | ND | - | 1.14E-02 | 6.56E-04 | 4.08E-03 | 3.64E-03 |
| BETA-BHC | 3 | 67 | ND | - | 8.77E-03 | 1.04E-03 | 3.50E-03 | 2.64E-03 |
| CIS-NONACHLOR | 3 | 100 | 2.14E-03 | - | 8.55E-03 | 4.12E-03 | 4.94E-03 | 1.89E-03 |
| DELTA-BHC | 3 | 33 | ND | - | 1.34E-04 | 8.77E-03 | 6.76E-03 | 3.39E-03 |
| DIELDRIN | 3 | 100 | 1.09E-03 | - | 2.47E-03 | 2.15E-03 | 1.90E-03 | 4.18E-04 |
| ENDOSULFAN II | 3 | 100 | 9.28E-03 | - | 1.22E-02 | 1.20E-02 | 1.11E-02 | 9.37E-04 |
| GAMMA BHC (LINDANE) | 3 | 33 | ND | - | 1.29E-04 | 8.77E-03 | 6.75E-03 | 3.40E-03 |
| GAMMA-CHLORDANE | 3 | 33 | ND | - | 1.71E-04 | 8.77E-03 | 5.90E-03 | 2.87E-03 |
| HEPTACHLOR | 3 | 67 | ND | - | 3.39E-04 | 3.39E-04 | 3.08E-03 | 2.85E-03 |
| HEPTACHLOR EPOXIDE | 3 | 100 | 3.91E-04 | - | 3.50E-03 | 4.54E-04 | 1.45E-03 | 1.03E-03 |
| HEXACHLOROBENZENE | 3 | 100 | 6.83E-04 | - | 2.92E-03 | 1.60E-03 | 1.74E-03 | 6.50E-04 |
| MIREX | 3 | 67 | ND | - | 7.32E-04 | 7.32E-04 | 4.10E-03 | 3.63E-03 |
| O,P'-DDD | 3 | 100 | 4.94E-02 | - | 9.47E-02 | 5.94E-02 | 6.79E-02 | 1.37E-02 |
| O,P'-DDE | 3 | 33 | ND | - | 6.27E-04 | 8.77E-03 | 6.92E-03 | 3.23E-03 |
| O,P'-DDT | 3 | 100 | 6.06E-02 | - | 1.15E-01 | 9.63E-02 | 9.07E-02 | 1.60E-02 |
| OXYCHLORDANE | 3 | 100 | 2.39E-03 | - | 3.42E-03 | 2.96E-03 | 2.92E-03 | 2.99E-04 |
| PENTACHLOROANISOLE | 3 | 100 | 3.30E-04 | - | 1.27E-03 | 6.00E-04 | 7.33E-04 | 2.79E-04 |
| PENTACHLOROBENZENE | 3 | 100 | 4.68E-04 | - | 1.51E-03 | 8.84E-04 | 9.55E-04 | 3.04E-04 |
| TRANS-NONACHLOR | 3 | 100 | 3.49E-03 | - | 5.56E-03 | 4.37E-03 | 4.47E-03 | 5.99E-04 |

Notes:

1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.

# Table C-56
## Pesticide Data Summary Table for House Wrens

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

Sample Year: **1998**

| | House Wren (Avian Egg) | | | | | | |
|---|---|---|---|---|---|---|---|
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean** | **Standard Error** |
| 1,2,3,4-TETRACHLOROBENZENE | 5 | 100 | 1.72E-03 | - | 1.95E-02 | 7.29E-03 | 1.03E-02 | 3.38E-03 |
| 1,2,4,5-TETRACHLOROBENZENE | 5 | 100 | 3.44E-03 | - | 9.52E-03 | 6.21E-03 | 6.33E-03 | 1.16E-03 |
| 4,4'-DDD | 5 | 100 | 9.89E-03 | - | 4.76E-02 | 1.23E-02 | 1.87E-02 | 7.25E-03 |
| 4,4'-DDE | 5 | 100 | 8.07E-02 | - | 1.36E+00 | 2.30E-01 | 4.15E-01 | 2.37E-01 |
| 4,4'-DDT | 5 | 100 | 1.98E-03 | - | 1.69E-02 | 2.86E-03 | 5.55E-03 | 2.86E-03 |
| ALPHA-BHC | 5 | 80 | ND | - | 1.12E-03 | 6.35E-04 | 3.45E-03 | 2.71E-03 |
| BETA-BHC | 5 | 20 | ND | - | 4.85E-03 | NA | 1.16E-02 | 1.74E-03 |
| CHLORPYRIFOS | 5 | 20 | ND | - | 8.80E-04 | NA | 1.17E-02 | 2.74E-03 |
| CIS-NONACHLOR | 5 | 100 | 3.84E-03 | - | 6.16E-02 | 9.88E-03 | 2.28E-02 | 1.12E-02 |
| DELTA-BHC | 5 | 20 | ND | - | 8.31E-04 | NA | 1.14E-02 | 2.73E-03 |
| DIELDRIN | 5 | 100 | 1.22E-03 | - | 3.86E-03 | 1.54E-03 | 2.34E-03 | 5.76E-04 |
| ENDOSULFAN II | 5 | 100 | 1.74E-02 | - | 7.30E-02 | 4.32E-02 | 4.29E-02 | 9.50E-03 |
| ENDRIN | 5 | 80 | ND | - | 1.78E-03 | 1.52E-03 | 4.25E-03 | 2.98E-03 |
| GAMMA-CHLORDANE | 5 | 20 | ND | - | 6.50E-05 | NA | 1.15E-02 | 2.90E-03 |
| HEPTACHLOR | 5 | 80 | ND | - | 5.31E-04 | 3.40E-04 | 2.65E-03 | 2.31E-03 |
| HEPTACHLOR EPOXIDE | 5 | 100 | 2.49E-03 | - | 1.65E-02 | 3.64E-03 | 6.14E-03 | 2.64E-03 |
| HEXACHLOROBENZENE | 5 | 100 | 3.95E-03 | - | 1.96E-02 | 6.33E-03 | 1.01E-02 | 3.34E-03 |
| MIREX | 5 | 100 | 6.05E-03 | - | 1.34E+00 | 1.55E-02 | 2.79E-01 | 2.66E-01 |
| O,P'-DDD | 5 | 100 | 1.05E-01 | - | 3.91E-01 | 1.19E-01 | 1.80E-01 | 5.44E-02 |
| O,P'-DDT | 5 | 100 | 1.90E-01 | - | 7.92E-01 | 2.95E-01 | 3.76E-01 | 1.07E-01 |
| OXYCHLORDANE | 5 | 100 | 8.76E-03 | - | 5.01E-02 | 1.30E-02 | 1.94E-02 | 7.76E-03 |
| PENTACHLOROANISOLE | 5 | 100 | 4.93E-04 | - | 1.06E-03 | 9.34E-04 | 8.56E-04 | 1.05E-04 |
| PENTACHLOROBENZENE | 5 | 100 | 1.22E-03 | - | 1.92E-02 | 9.04E-03 | 8.56E-03 | 3.39E-03 |
| TRANS-NONACHLOR | 5 | 100 | 9.24E-04 | - | 1.77E-02 | 8.60E-03 | 7.56E-03 | 3.07E-03 |

Notes:
1. EPA collected samples included in this data summary table. Samples are individuals.
2. Units are mg/Kg or ppm.
3. ND = Not Detected.
4. NA = Not Available.

# Table C-57
# PCDD/PCDF Data Summary Table for Small Mammals

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS ROAD**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range | | | Median | Arithmetic Mean[2, 3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **White Footed Mouse** | | | | | | | | |
| OCDD | 6 | 50 | ND | - | 3.05E-05 | 9.78E-06 | 1.30E-05 | 3.66E-06 |
| 1,2,3,7,8-PECDF | 6 | 17 | ND | - | 5.00E-06 | -- | 5.00E-06 | -- |
| 2,3,4,7,8-PECDF | 6 | 17 | ND | - | 3.08E-05 | -- | 3.08E-05 | -- |
| 1,2,3,4,7,8-HXCDF | 6 | 33 | ND | - | 2.45E-05 | 5.20E-06 | 1.05E-05 | 3.64E-06 |
| 1,2,3,6,7,8-HXCDF | 6 | 33 | ND | - | 1.03E-05 | 5.20E-06 | 6.51E-06 | 1.07E-06 |
| 2,3,4,6,7,8-HXCDF | 6 | 17 | ND | - | 1.31E-05 | -- | 1.31E-05 | -- |
| 1,2,3,4,6,7,8-HPCDF | 6 | 33 | ND | - | 3.18E-05 | 5.20E-06 | 1.34E-05 | 5.42E-06 |
| WHO TEQ (Human/Mammal) | 6 | -- | 1.09E-05 | - | 2.87E-05 | 1.27E-05 | 1.49E-05 | 2.78E-06 |
| **Short Tailed Shrew** | | | | | | | | |
| **Constituent** | **No. of Samples[1]** | **Frequency of Detection (%)** | **Range** | | | **Median** | **Arithmetic Mean[2, 3]** | **Standard Error** |
| 2,3,7,8-TCDF | 6 | 33 | ND | - | 1.21E-05 | 1.05E-06 | 4.53E-06 | 2.24E-06 |
| OCDD | 6 | 33 | ND | - | 5.23E-05 | 1.04E-05 | 1.75E-05 | 6.99E-06 |
| 1,2,3,7,8-PECDF | 6 | 50 | ND | - | 3.41E-04 | 5.42E-05 | 1.15E-04 | 5.80E-05 |
| 2,3,4,7,8-PECDF | 6 | 33 | ND | - | 1.32E-04 | 5.23E-06 | 4.25E-05 | 2.40E-05 |
| 1,2,3,4,6,7,8-HPCDF | 6 | 67 | ND | - | 9.64E-05 | 5.60E-06 | 2.85E-05 | 1.57E-05 |
| WHO TEQ (Human/Mammal) | 6 | -- | 1.27E-05 | - | 7.97E-05 | 2.02E-05 | 3.72E-05 | 1.32E-05 |

Notes:

1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. -- = Not Applicable.

# Table C-58
## Pesticide Data Summary Table for Small Mammals

**Sample Location: REACH 5 - HOUSATONIC RIVER - CONFLUENCE TO WOODS POND**

**Sample Year: 1999**

| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
|---|---|---|---|---|---|---|---|---|
| **White Footed Mouse** | | | | | | | | |
| 1,2,3,4-TETRACHLOROBENZENE | 52 | 77 | ND | - | 3.39E-03 | 2.77E-04 | 8.12E-04 | 1.87E-05 |
| 1,2,4,5-TETRACHLOROBENZENE | 52 | 100 | 3.30E-05 | - | 9.13E-03 | 6.76E-04 | 1.84E-03 | 4.40E-05 |
| 4,4'-DDD | 52 | 35 | ND | - | 4.81E-03 | 2.26E-03 | 1.88E-03 | 2.11E-05 |
| 4,4'-DDE | 52 | 92 | ND | - | 4.90E-03 | 6.05E-04 | 8.96E-04 | 1.58E-05 |
| 4,4'-DDT | 52 | 4 | ND | - | 4.90E-03 | 2.34E-03 | 2.48E-03 | 1.50E-05 |
| ALDRIN | 52 | 10 | ND | - | 4.81E-03 | 2.33E-03 | 2.23E-03 | 1.90E-05 |
| ALPHA-BHC | 52 | 67 | ND | - | 4.90E-03 | 1.63E-04 | 1.02E-03 | 2.61E-05 |
| ALPHA-CHLORDANE | 52 | 4 | ND | - | 8.30E-03 | 2.34E-03 | 2.60E-03 | 2.17E-05 |
| BETA-BHC | 52 | 29 | ND | - | 4.90E-03 | 2.26E-03 | 1.85E-03 | 2.24E-05 |
| CHLORPYRIFOS | 52 | 10 | ND | - | 4.90E-03 | 2.34E-03 | 2.43E-03 | 1.71E-05 |
| CIS-NONACHLOR | 52 | 48 | ND | - | 4.90E-03 | 2.00E-03 | 1.62E-03 | 2.64E-05 |
| DELTA-BHC | 52 | 10 | ND | - | 4.90E-03 | 2.34E-03 | 2.32E-03 | 1.98E-05 |
| DIELDRIN | 52 | 81 | ND | - | 4.90E-03 | 3.70E-04 | 8.91E-04 | 2.27E-05 |
| ENDOSULFAN II | 52 | 63 | ND | - | 4.81E-03 | 5.07E-04 | 1.13E-03 | 2.24E-05 |
| ENDRIN | 52 | 12 | ND | - | 4.81E-03 | 2.33E-03 | 2.24E-03 | 1.86E-05 |
| GAMMA BHC (LINDANE) | 52 | 4 | ND | - | 4.90E-03 | 2.34E-03 | 2.45E-03 | 1.65E-05 |
| GAMMA-CHLORDANE | 52 | 2 | ND | - | 1.90E-04 | NA | 1.90E-04 | NA |
| HEPTACHLOR | 52 | 21 | ND | - | 4.90E-03 | 2.27E-03 | 1.92E-03 | 2.07E-05 |
| HEPTACHLOR EPOXIDE | 52 | 17 | ND | - | 4.90E-03 | 2.30E-03 | 2.01E-03 | 1.86E-05 |
| HEXACHLOROBENZENE | 52 | 98 | ND | - | 5.00E-03 | 2.61E-04 | 4.47E-04 | 1.44E-05 |
| MIREX | 52 | 2 | ND | - | 1.40E-03 | NA | 1.40E-03 | NA |
| O,P'-DDD | 52 | 90 | ND | - | 1.29E-02 | 8.68E-04 | 2.10E-03 | 6.15E-05 |
| O,P'-DDE | 52 | 63 | ND | - | 3.19E-02 | 1.05E-03 | 2.22E-03 | 9.42E-05 |
| O,P'-DDT | 52 | 100 | 9.87E-04 | - | 1.57E-01 | 1.24E-02 | 2.03E-02 | 5.25E-04 |
| OXYCHLORDANE | 52 | 75 | ND | - | 4.81E-03 | 8.88E-04 | 1.26E-03 | 1.99E-05 |
| PENTACHLOROANISOLE | 52 | 96 | ND | - | 1.05E-03 | 1.77E-04 | 2.18E-04 | 3.29E-06 |
| PENTACHLOROBENZENE | 52 | 71 | ND | - | 2.30E-03 | 4.55E-04 | 8.66E-04 | 1.41E-05 |
| 1,2,3,4-TETRACHLOROBENZENE | 52 | 6 | ND | - | 4.81E-03 | 2.34E-03 | 2.39E-03 | 1.48E-05 |
| **Short Tailed Shrew** | | | | | | | | |
| Constituent | No. of Samples[1] | Frequency of Detection (%) | Range Minimum | - | Range Maximum | Median | Arithmetic Mean[2,3] | Standard Error |
| 1,2,3,4-TETRACHLOROBENZENE | 24 | 96 | ND | - | 2.28E-03 | 3.88E-04 | 4.92E-04 | 2.09E-05 |
| 1,2,4,5-TETRACHLOROBENZENE | 24 | 100 | 2.80E-04 | - | 5.38E-03 | 1.23E-03 | 1.57E-03 | 5.98E-05 |
| 4,4'-DDD | 24 | 100 | 7.46E-04 | - | 3.15E-02 | 5.04E-03 | 9.60E-03 | 3.52E-04 |
| 4,4'-DDE | 24 | 100 | 1.13E-02 | - | 2.85E-01 | 4.63E-02 | 5.27E-02 | 2.23E-03 |
| 4,4'-DDT | 24 | 96 | ND | - | 9.45E-02 | 4.20E-03 | 8.35E-03 | 7.77E-04 |
| ALDRIN | 24 | 13 | ND | - | 2.49E-03 | 2.28E-03 | 2.07E-03 | 2.77E-05 |
| ALPHA-BHC | 24 | 100 | 3.00E-05 | - | 2.79E-04 | 1.63E-04 | 1.61E-04 | 2.80E-06 |
| ALPHA-CHLORDANE | 24 | 13 | ND | - | 2.49E-03 | 2.34E-03 | 2.08E-03 | 2.73E-05 |
| BETA-BHC | 24 | 8 | ND | - | 2.49E-03 | 2.34E-03 | 2.14E-03 | 2.59E-05 |
| CHLORPYRIFOS | 24 | 21 | ND | - | 2.49E-03 | 2.30E-03 | 2.08E-03 | 2.33E-05 |
| CIS-NONACHLOR | 24 | 96 | ND | - | 1.84E-02 | 5.23E-03 | 6.55E-03 | 2.07E-04 |
| DELTA-BHC | 24 | 8 | ND | - | 2.49E-03 | 2.35E-03 | 2.17E-03 | 2.25E-05 |
| DIELDRIN | 24 | 83 | ND | - | 3.82E-02 | 3.69E-03 | 7.73E-03 | 3.73E-04 |
| ENDOSULFAN II | 24 | 92 | ND | - | 1.23E-02 | 7.50E-03 | 6.10E-03 | 1.48E-04 |
| ENDRIN | 24 | 58 | ND | - | 2.43E-03 | 5.80E-04 | 1.19E-03 | 4.06E-05 |
| GAMMA BHC (LINDANE) | 24 | 46 | ND | - | 2.49E-03 | 2.08E-03 | 1.27E-03 | 4.84E-05 |
| GAMMA-CHLORDANE | 24 | 4 | ND | - | 9.10E-04 | NA | 9.10E-04 | NA |
| HEPTACHLOR | 24 | 8 | ND | - | 2.49E-03 | 2.34E-03 | 2.14E-03 | 2.65E-05 |
| HEPTACHLOR EPOXIDE | 24 | 17 | ND | - | 2.49E-03 | 2.35E-03 | 1.99E-03 | 3.44E-05 |
| HEXACHLOROBENZENE | 24 | 88 | ND | - | 2.28E-03 | 3.09E-04 | 5.32E-04 | 2.86E-05 |
| MIREX | 24 | 21 | ND | - | 2.49E-03 | 2.34E-03 | 1.92E-03 | 3.40E-05 |
| O,P'-DDD | 24 | 100 | 6.49E-03 | - | 4.02E-01 | 2.42E-01 | 2.07E-01 | 5.19E-03 |
| O,P'-DDE | 24 | 83 | ND | - | 3.26E-03 | 5.23E-04 | 1.14E-03 | 4.46E-05 |
| O,P'-DDT | 24 | 100 | 1.92E-02 | - | 6.25E-01 | 3.37E-01 | 2.93E-01 | 7.17E-03 |
| OXYCHLORDANE | 24 | 79 | ND | - | 3.21E-03 | 1.47E-03 | 1.65E-03 | 2.57E-05 |
| PENTACHLOROANISOLE | 24 | 100 | 7.20E-05 | - | 3.39E-04 | 1.50E-04 | 1.62E-04 | 2.66E-06 |
| PENTACHLOROBENZENE | 24 | 100 | 6.01E-04 | - | 2.30E-03 | 8.98E-04 | 1.11E-03 | 2.08E-05 |
| 1,2,3,4-TETRACHLOROBENZENE | 24 | 100 | 1.34E-03 | - | 9.62E-03 | 6.61E-03 | 6.02E-03 | 1.02E-04 |

# Table C-58
# Pesticide Data Summary Table for Small Mammals

Notes:

1. EPA collected all samples included in this data summary table. Samples are whole body individuals.
2. For sampling years with only one sample, the datum represents the concentration of that individual sample.
3. The arithmetic mean and standard deviation were calculated using one-half the laboratory detection limit for all non-detects.
4. Units are mg/Kg or ppm.
5. ND = Not Detected.
6. NA = Not Available.