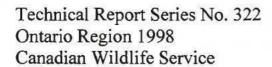
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(%. 322 AN ATLAS OF CONTAMINANTS IN THE EGGS OF FISH-EATING COLONIAL BIRDS OF THE GREAT LAKES (1993-1997). VOLUME II. ACCOUNTS BY CHEMICAL

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EXECUTIVE SUMMARY

During 1993-97, Canadian Wildlife Service (Ontario Region) collected 1252 eggs from 32 sites. Four species of fisheating colonial waterbirds were sampled:

- Double-crested Cormorant (Phalacrocorax auritus)
- Great Black-backed Gull (Larus marinus)
- Herring Gull (Larus argentatus)
- Ring-billed Gull (Larus delawarensis)

The purpose was to measure the levels of the following compounds:

- organochlorine pesticides
- chlorinated benzenes
- polychlorinated biphenyls
- dioxins and furans
- lipid and moisture

These data were generated as part of a monitoring program started in 1970 to understand the temporal and spatial trends of environmental contaminant levels in biota of the Great Lakes. Since the 1970s the levels of most chlorinated hydrocarbons have decreased significantly at most colonies on the Great Lakes. A regression model that applied two temporal trends to the log-transformed values of most organochlorine pesticides and PCB:1254-1260 found that the rates of decline in recent years were similar to those seen in the years shortly after sampling began (Di Maio et al., In Press; Pekarik and Weseloh, 1998).

The data from 1993-97 are summarized in two volumes. Volume I contains contaminant data for all (4) species summarized by location, and non-coplanar PCB data for Herring Gull eggs from 14 annual monitoring colonies. Volume II contains contaminant data for all (4) species summarized by compound. Both volumes contain sample locations and the means and standard deviations or pooled analysis values for organochlorine pesticide, chlorinated benzenes, polychlorinated biphenyls, dioxins and furans, and percent lipid and moisture. Additionally, data for mercury from Herring Gull eggs collected in 1992 have been listed, since they were inadvertently omitted from Pettit et al., 1994a; b.

The publication of previous years' data has resulted in independent statistical analyses and publications of Herring Gull egg contaminant data (Smith, 1995; Stow, 1995). Within the Canadian Wildlife Service additional analyses have been published on the current dataset of contaminant levels in fish-eating birds of the Great Lakes (Hebert et al., 1997; Koster et al., 1997; Pekarik and Weseloh, 1998; Ryckman et al., 1998).

RÉSUMÉ ADMINISTRATIF

Pendant la période allant de 1993 à 1997, le Service canadien de la faune (Région de l'Ontario) a recueilli 1252 oeufs à 32 sites. On a étudié quatre espèces d'oiseaux coloniaux piscivores :

- le cormoran à aigrettes (Phalacrocorax auritus)
- le goéland à manteau noir (Larus marinus)
- le goéland argenté (Larus argentatus)
- le goéland à bec cerclé (Larus delawarensis)

Il s'agissait de mesurer les niveaux des composés suivants :

- les pesticides organochlorés
- les benzènes chlorés
- · les biphényles polychlorés
- · les dioxines et les furans
- les lipides et l'humidité

On a calculé ces données en vertu d'un programme de surveillance commencé en 1970 pour comprendre les tendances temporelles et spatiales des niveaux des contaminants environnementaux dans la biote des Grands Lacs. Depuis les années 70, les niveaux de la plupart des hydrocarbures chlorés baissent beaucoup à la plupart des colonies des Grands Lacs. D'après un modèle de régression qui a affecté deux tendances temporelles aux valeurs transformées par registre de la plupart des pesticides organochlorés et du PCB:1254-1260, les taux de déclin des dernières années se rapprochent des taux observés pendant les années qui ont suivi de près le début de l'échantillonnage (Di Maio et collaborateurs, In Press; Pekarik et Weseloh, 1998).

Les données de 1993-1997 sont résumées en deux volumes. Le volume I contient les données sur les contaminants pour les quatre espèces au complet, résumées par lieu, et les données sur les BPC non-coplanaires pour les oeufs de goélands argentés provenant de 14 colonies à surveillance annuelle. Le volume II renferme les données sur les contaminants de toutes les quatre espèces, résumés par composés. Les deux volumes contiennent les emplacements des échantillons, ainsi que la moyenne et l'écart type ou les valeurs d'analyses rassemblées pour le pesticide organochloré, les benzènes chlorés, les diphényles polychlorés, les dioxines et les furans, ainsi que les lipides et l'humidité en pourcentage. En outre, on a énuméré les données sur le mercure contenu dans les oeufs de goélands argentés recueillis en 1992, car on les avait omises par inadvertance dans Pettit et collaborateurs, 1994a; b.

La publication des données des années antérieures a entraîné des analyses et des publications statistiques indépendantes de données de contamination des oeufs de goélands argentés (Smith, 1995; Stow, 1995). Au sein du Service canadien de la faune, on a publié d'autres analyses sur l'ensemble actuel de données sur les niveaux de contaminants contenus dans les oiseaux piscivores des Grands Lacs (Hebert et collaborateurs, 1997; Pekarik et Weseloh, 1998; Ryckman et collaborateurs, 1998).

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Laboratory analyses were conducted at the National Wildlife Research Centre (NWRC) by the following people: Henry Won, John Moisey, J. Carroll and Michael Mulvihill. John Moisey also provided assistance with interpretation of laboratory reports. Roberta McCarthy and Walter Giesbrecht assisted with literature research.

Useful comments on portions of the draft manuscript were provided by Tammara Boughen, Glen Fox, Keith Grasman, Craig Hebert, Ray Hoff, Laird Shutt, Donna Stewart and Bryan Wakeford.

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INTRODUCTION

During 1993-97, Canadian Wildlife Service (Ontario Region) collected 1252 eggs from four species of fish-eating colonial waterbirds from 32 colonies (sites) throughout the Great Lakes. The purpose was to measure the levels of chlorinated hydrocarbons and lipid concentrations. These data were generated as part of a monitoring program started in 1970 to understand the temporal and spatial trends of environmental contaminant levels in biota of the Great Lakes. Since the 1970s the levels of most chlorinated hydrocarbons have decreased significantly at most colonies on the Great Lakes.

Analyses of contaminant data in Great Lakes fish found that toxic substances were not declining as quickly in recent years as they had been following restrictive regulation (Borgmann and Whittle 1991, 1992). For Herring Gull egg data, the rate of decline appeared to have slowed in recent years when observed on a non-transformed scale. Nonetheless, a regression model that applied two temporal trends to the log-transformed values of most organochlorine pesticides and PCB:1254-1260 found that the rates of decline in recent years were similar to those seen shortly after sampling began (Di Maio et al., In Press; Pekarik and Weseloh, 1998). This model (referred to change point model) is one of many that has been used recently to describe the temporal trends of contaminants in Herring Gull eggs (Smith, 1995; Stow, 1995; Hebert et al., 1997). Stow (1995) used a portion of the CWS Herring Gull egg contaminant database (1978-1992) to determine the long-term trends of lakewide values of PCB 1254:1260 (Bishop et al., 1992a; b, Pettit et al., 1994a; b). He found that: PCB 1254:1260 concentrations had ceased to decline in Herring Gull eggs from Lakes Ontario, Michigan, Huron and Superior and that levels in Lake Erie eggs continued to decline. Smith (1995) found that the short-term changes of five organochlorine contaminants in Herring Gull eggs, were synchronized within and between Great Lakes. He proposed that weather patterns, acting as large scale forces, were controlling the short-term patterns in Herring Gull eggs across the Great Lakes. Hebert et al. (1997) refined the relationship between PCB 1254:1260 accumulation in Herring Gull eggs and weather at two Lake Ontario colonies. They found that PCB 1254:1260 levels were higher than expected in years with cold winters and/or high alewife abundance. They also found that PCB 1254:1260 levels were higher than expected when alewife condition was low.

Ryckman et al. (1998) discussed the spatial and temporal trends of organochlorine contaminants in the eggs of Double-crested Cormorants from the Canadian Great Lakes. They found that since the 1970s, levels declined significantly at sites from all the Great Lakes, except Lake Erie where levels remained stable. From 1984 to 1995 spatial trends indicated that eggs from Lake Erie were most contaminated and those from Lake Huron were least contaminated. Koster et al. (1997) studied the levels of total mercury in Herring Gull eggs sampled in certain years from 1972 to 1992. They found that the highest levels were in Lake Ontario, followed by Lake Superior; Lake Erie was found to have the lowest levels. Levels declined significantly from 1972 to 1992 at five colonies and from 1981 to 1992 at three colonies.

The present documents, An atlas of contaminants in eggs of fish-eating colonial birds of the Great Lakes (1993-1997) Volume I, Accounts by Location and An atlas of contaminants in eggs of fish-eating colonial birds of the Great Lakes (1993-1997) Volume II, Accounts by Chemical, are meant to continue four earlier volumes:

- An atlas of contaminants in eggs of fish-eating colonial birds of the Great Lakes (1970-1988) Volume I, Accounts by Species and Locations (Bishop et al., 1992a)
- An atlas of contaminants in eggs of fish-eating colonial birds of the Great Lakes (1989-1992) Volume I, Accounts by Location (Pettit et al., 1994a)
- An atlas of contaminants in eggs of fish-eating colonial birds of the Great Lakes (1970-1988) Volume II, Accounts by Chemical. (Bishop et al., 1992b)
- An atlas of contaminants in eggs of fish-eating colonial birds of the Great Lakes (1989-1992) Volume II. Accounts by Chemical. (Pettit et al., 1994b)

To facilitate access to the data, we have organized the text and tables in the present reports similarly to the earlier reports. These reports contain the means and standard deviations or pooled analysis values for organochlorine pesticides, polychlorinated biphenyls, polychlorinated dioxins and furans for the four species of colonial waterbirds sampled between 1993-97. For Herring Gull eggs collected from 14 annual monitoring colonies we also present the congener patterns for non-coplanar PCBs.

Data from specific sampling locations or for specific compounds can be retrieved in a stepwise manner. Instructions for data retrieval are detailed below. In both volumes we provide maps showing the locations of the sampling sites (Section 1, Figures 1-10) and tables summarizing the number of eggs collected at each colony (Section 1, Tables 1-10). In Volume I (Section 2, Table 11) we present the data summarized by location and in Volume II (Section 2, Table 11) we present the data summarized by chemical. For Herring Gull eggs from 14 annual monitoring colonies the data are presented for the PCB congeners that contribute to the total PCB congeners (otherwise referred to as sum PCB) (Volume I, Section 3, Table 12). These PCB congener data are also presented graphically (Volume I, Section 3, Figures 11-24).

DOCUMENT OUTLINES

OUTLINE OF DOCUMENT - VOLUME I

Section 1 - Data Summary by Sample Size

For each area, a map (Figures 1-10) and a corresponding table (Tables 1-10) present sampling sites and compounds analyzed by species and year.

Section 2 - Data Summary by Location Sampled

The index (page 35) lists the pages in Table 11 where all contaminant data can be found concerning each species at each colony. Following the index, Table 11 presents contaminant data for eggs of fish-eating birds summarized by water body, colony, species and years sampled.

Section 3 - Non-Coplanar PCB Congener Patterns in Herring Gull Eggs

Figures 11-24, are graphic representations of the means (1993-97) and standard deviations of the percentage that each PCB congener contributes to total PCB congeners. This data is given only for Herring Gull eggs from 14 annual monitoring colonies. The index (page 187) lists the pages in Table 12 where PCB congener data can be found for each monitoring colony. Following the index, Table 12 presents non-coplanar PCB congener data summarized by water body, colony and years sampled.

OUTLINE OF DOCUMENT - VOLUME II

Section 1 - Data Summary by Sample Size

For each area, a map (Figures 1-10) and a corresponding table (Tables 1-10) present sampling sites and the compounds analyzed by species and year.

Section 2 - Data Summary by Compound

The index (page 35) lists the pages in Table 11 where data for each compound can be found for the colonies sampled in each water body. Table 11 presents contaminant data for eggs of fish-eating birds summarized by compound, water body, colony, species and years sampled.

INSTRUCTIONS FOR USERS OF THIS ATLAS

GENERAL NOTES:

- It is important that the summary of methodologies and statistical notes (page 10) be examined by all readers to facilitate proper interpretation of the data.
- 2. The locations, chemicals analyzed, and species are listed in the following order in all indices and tables:
 - A. The water bodies and colony locations are generally listed in east to west order.
 - B. The contaminants measured are generally listed in alphabetical order. A list of the order of the contaminants and the abbreviations used in the tables begins on page 7.
 - C. The species sampled are listed in checklist order (American Ornithologists' Union, 1983):
 - Double-crested Cormorant (Phalacrocorax auritus)
 - Great Black-backed Gull (Larus marinus)
 - Herring Gull (Larus argentatus)
 - Ring-billed Gull (Larus delawarensis)

Three other species of fish-eating colonial waterbirds were sampled in previous years, but not between 1993-97 (Bishop et al., 1992a; b; Pettit et al., 1994a; b). They are: Black-crowned Night-Heron, Caspian Tern and Common Tern.

- The atlas is designed to be used in a stepwise manner. The quickest methods of finding the data available for a specific location or chemical are described below.
- 4. Tables 1-10 are designed to indicate the data that are available. They summarize the locations where eggs were collected and the contaminants analyzed, by species and year. The accompanying maps (Figures 1-10) illustrate the locations of the sampling sites. The colony names are numbered on the maps, these correspond to numbers on the accompanying tables. These tables and figures are included in both volumes (Section 1). On Figures 1-10 and Tables 1-10 colonies that are part of the Herring Gull annual monitoring program are indicated by an asterisk (*).
- In both volumes Table 11 summarizes the data, either by location (Volume I) or by chemical (Volume II). In Volume I, Table 12 summarizes (by location) the data for non-coplanar PCBs in Herring Gull eggs at 14 annual monitoring colonies.

EXAMPLES OF HOW TO LOCATE DATA:

EXAMPLE 1: LOCATING DATA BY LOCATION (VOLUME I)

For example, if you were interested in types of contaminants and the levels found in eggs of fish-eating birds in the Kingston area, you would do the following:

1. Locate the map that covers the area of interest.

For Kingston you would refer to Figure 2 (page 16). Three colonies, from which eggs have been collected, are located near Kingston:

- Snake Island (colony 2)
- Pigeon Island (colony 3)
- Little Galloo Island (colony 4).
- Refer to the accompanying table and the sampling site(s) based on the colony number(s) determined in step 1.
 In this case you would refer to Table 2 (page 17). You would then locate the appropriate colony numbers (in this case 2, 3 and 4) and determine which species were sampled, the years and the contaminants for which data are available.
- 3. Locate the appropriate page that contains the contaminant data.

Beginning on page 35 (Volume I) there is an index for the sampling sites presented in Table 11. You would locate the colonies of interest (in this case Snake Island, Pigeon Island, and Little Galloo Island) and turn to the appropriate page(s) to locate the contaminant data.

EXAMPLE 2: LOCATING DATA FOR NON-COPLANAR PCBs (VOLUME I) (AVAILABLE ONLY FOR HERRING GULL EGGS FROM 14 ANNUAL MONITORING COLONIES)

For example, if you were interested in the levels of non-coplanar PCBs in Herring Gull eggs from the Kingston area, you would do the following:

- 1. Locate the map and the Herring Gull annual monitoring colonies that cover the area of interest.

 For Kingston you would refer to Figure 2 (page 16). One annual monitoring colony from which Herring Gull
 - Snake Island (colony 2)
- 2. Locate the appropriate page that contains the non-coplanar PCB data.

eggs have been collected is located near Kingston:

On page 187 (Volume I) there is an index for the Herring Gull annual monitoring colonies presented in Table 12. Determine the page(s) where the non-coplanar PCB data for Snake Island are summarized. In this case you would refer to page 192 (Volume I) to find the pooled values for non-coplanar PCB congeners in Herring Gull eggs from Snake Island.

EXAMPLE 3: LOCATING DATA BY CHEMICAL (VOLUME II)

For example, if you were interested in the data available for PCB:1254-1260, you would do the following:

- In Volume II (Accounts by Chemical) refer to the index beginning on page 35.
 For PCB:1254-1260 you would determine that the data begin on page 120. If you were interested in PCB: 1254-1260 data for a specific water body, the appropriate page can also be located in the index beginning on page 35.
- Refer to the appropriate page in Section 2, Table 11 (Volume II).
 In this case you would refer to page 120 to find the means and standard deviations or pooled values for PCB:1254-1260 at the various sampling sites and for various species.

COMPOUNDS ANALYZED IN EGGS OF FISH-EATING BIRDS OF THE GREAT LAKES

The following compounds are listed in alphabetical order except for "percent lipid in egg" and "percent moisture in egg", coplanar PCBs, dioxins and furans. The underlined sections of the chemical names are the words which were used to place the chemicals in their alphabetical positions. Chemical congeners are listed in order of increasing chlorination. The order of names in this list is used consistently throughout the tables in this document. Abbreviations correspond to those on Table 1-10. Chemical Abstract System (CAS) numbers have been included, when they were available. PCB congener numbering follows Ballschmiter and Zell (1980).

NOTES:

Total Mercury (1992)

Herring Gull eggs collected in 1992 were analyzed for total mercury (Hg), but the results were inadvertently omitted in previous volumes of the Atlas. We include these data in both volumes of this edition. In Figures 1-10 and Tables 1-10, we also include the locations of the colonies where eggs were collected for total mercury analysis.

For all other contaminant data for eggs collected in 1992, please refer to the previous edition of this publication (An atlas of contaminants in eggs of fish-eating colonial birds of the Great Lakes (1989-1992) Volume I. Accounts by Location or An atlas of contaminants in eggs of fish-eating colonial birds of the Great Lakes (1989-1992) Volume II, Accounts by Chemical (Pettit et al., 1994a; b).

Dioxin and furan compounds, analyzed but not detected

In 1995, 1996 and 1997, Herring Gull eggs were analyzed for the following dioxin and furan compounds. The compounds were not detected in any sample, thus they are not included in the tables.

1,2,4,7,9/1,2,4,6,8-pentachlorodibenzo-p-dioxin

1,2,3,6,8- pentachlorodibenzo-p-dioxin (CAS number: 71925-16-1)

1,2,4,7,8- pentachlorodibenzo-p-dioxin (CAS number: 58802-08-7)

1,2,3,7,9- pentachlorodibenzo-p-dioxin (CAS number: 71925-17-2)

1,2,4,6,7,9/1,2,4,6,8,9- hexachlorodibenzo-p-dioxin

1,2,3,6,7,9/1,2,3,6,8,9- hexachlorodibenzo-p-dioxin

1,2,3,4,6,7,9- heptachlorodibenzo-p-dioxin (CAS number: 58200-70-7)

2,4,6,8-tetrachlorodibenzofuran (CAS number: 58802-19-0)

2,3,6,8-tetrachlorodibenzofuran (CAS number: 57117-37-0)

1,2,7,8-tetrachlorodibenzofuran (CAS number: 58802-20-3)

2,3,6,7-tetrachlorodibenzofuran (CAS number: 57117-39-2)

1,2,3,6,8-pentachlorodibenzofuran (CAS number: 83704-51-2)

2,3,4,6,7-pentachlorodibenzofuran (CAS number: 57117-43-8)

1,2,3,4,6,8-hexachlorodibenzofuran (CAS number: 69698-60-8)

In 1996 and 1997, Herring Gull eggs were analyzed for the following dioxin and furan compounds. The compounds were not detected in any sample, thus they are not included in the tables.

1,3,7,8-tetrachlorodibenzo-p-dioxin (CAS number: 50585-46-1)

1,2,7,8-tetrachlorodibenzo-p-dioxin (CAS number: 34816-53-0)

1,2,3,7,9-pentachlorodibenzo-p-dioxin (CAS number: 71925-17-2)

1,2,3,8,9--pentachlorodibenzo-p-dioxin (CAS number: 83704-54-5)

2,3,4,6,8-pentachlorodibenzofuran (CAS number: 67481-22-5)

Compounds reported for all species at all colonies in Table 11 (Vols. I & II)

CAS#	COMPOUNDS	ABBREVIATION
		(used in Tables 1-10)
	Percent lipid in egg	
	Percent moisture in egg	
5103-71-9	Alpha(cis)-chlordane	
5103-74-2	Gamma(trans)-chlordane	
7304-13-8	Oxy- <u>chlordane</u>	
634-66-2	1,2,3,4-tetrachlorobenzene	
95-94-2	1,2,4,5-tetrachlorobenzene	
608-93-5	Pentachlorobenzene	
118-74-1	Hexa <u>chlorobenzene</u>	
72-54-8	pp'- <u>DDD</u>	
72-55-9	pp'- <u>DDE</u>	
50-29-3	pp'- <u>DDT</u>	
60-57-1	Dieldrin	
1024-57-3	Heptachlor epoxide	HEP EPX
39-84-6	Alpha-hexachlorocyclohexane	а-НСН
39-85-7	Beta-hexachlorocyclohexane	ь-нсн
58-89-8	Gamma-hexachlorocyclohexane	
7439-97-6	Total mercury	
3010-80-8	Tris (4-chlorophenyl) methanol	TCPM
2385-85-5	Mirex	MIR
39801-14-4	Photomirex	P-MIR
5103-73-1	Cis-nonachlor	c-NON
39765-80-5	Trans-nonachlor	t-NON
29082-74-4	Octachlorostyrene	OCS
11097-69-1	PCB:1260	
11096-82-5	PCB:1254-1260	
7782-49-2	Total (sum of) PCB congeners (non-coplanar)	SUM PCB
Coplanar PCB C	ongeners	
38444-90-5	PCB #37 3,4,4'-trichlorobiphenyl	COP PCB
32598-13-3	PCB #77 3,3',4,4'-tetrachlorobiphenyl	
70362-50-4	PCB #81 3,4,4',5-tetrachlorobiphenyl	COP PCB
57465-28-8	PCB #126 3,3',4,4',5-pentachlorobiphenyl	COP PCB
32774-16-6	PCB #169 3,3',4,4',5,5'-hexachlorobiphenyl	COP PCB
39635-31-9	PCB #189 2,3,3',4,4',5,5'-heptachlorobiphenyl	COP PCB
Dioxins		
1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	DIOXIN
40321-76-4	1,2,3,7,8-pentachlorodibenzo-p-dioxin	DIOXIN
39227-26-8	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	DIOXIN
39227-28-6	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	DIOXIN
19408-74-3	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	DIOXIN
35822-46-9	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	DIOXIN
3268-87-9	Octachlorodibenzo-p-dioxin	DIOXIN
Furans		
51207-31-9	2,3,7,8-tetrachlorodibenzofuran	FIRAN
69698-57-3	1,2,4,6,8-pentachlorodibenzofuran	
58802-15-6	1,2,4,7,8-pentachlorodibenzofuran	FIRAN
57117-41-6	1,2,3,7,8-pentachlorodibenzofuran	FURAN
	2,3,4,7,8-pentachlorodibenzofuran	Oldin

67562-40-7	1,2,4,6,7,8-hexachlorodibenzofuran	FURAN
69698-59-5	1,2,4,6,8,9-hexachlorodibenzofuran	FURAN
70658-26-9	1,2,3,4,7,8-hexachlorodibenzofuran	FURAN
57117-44-9	1,2,3,6,7,8-hexachlorodibenzofuran.	FURAN
72918-21-9	1,2,3,7,8,9-hexachlorodibenzofuran	FURAN
	2,3,4,6,7,8- hexachlorodibenzofuran.	
67462-39-4	1,2,3,4,6,7,8-heptachlorodibenzofuran	FURAN
69698-58-4	1,2,3,4,6,8,9-heptachlorodibenzofuran	FURAN
55673-89-7	1,2,3,4,7,8,9-heptachlorodibenzofuran	
39001-02-0	Octachlorodibenzofuran	

Non-coplanar PCB congeners reported for Herring Gulls at annual monitoring colonies in Table 12 (Volume I)

	colonies in Table 12 (Volume 1)
Non-coplanar PCB con	
CAS # C	OMPOUNDS ABBREVIATION
	(not applicable)
38444-78-9/38444-77-	B PCB #16/32 2,2',3-trichlorobiphenyl/2,4',6-trichlorobiphenyl
37680-66-3	PCB #17 2,2',4-trichlorobiphenyl
37680-65-2	PCB #18 2,2',5-trichlorobiphenyl
38444-85-8	PCB #22 2,3,4'-trichlorobiphenyl
7012-37-5	PCB #28 2,4,4'-trichlorobiphenyl
16606-02-3	PCB #31 2,4',5-trichlorobiphenyl
38444-86-9/38444-84-	
36559-22-5	PCB #42 2,2',3,4'-tetrachlorobiphenyl
41464-39-5	PCB #44 2,2',3,5'-tetrachlorobiphenyl
2437798/70362-47-9	PCB #47/48 2,2',4,4'-tetrachlorobiphenyl/2,2',4,5-tetrachlorobiphenyl
41464-40-8	PCB #49 2,2',4,5'-tetrachlorobiphenyl
35693-99-3	PCB #52 2,2',5,5'-tetrachlorobiphenyl
41464-43-9/33025-41-	
33025-41-1	PCB #60 2,3,4,4'-tetrachlorobiphenyl
52663-58-8	PCB #64 2,3,4',6-tetrachlorobiphenyl
32598-10-0	PCB #66 2,3',4,4'-tetrachlorobiphenyl
32598-11-1	PCB #70 2,3',4',5-tetrachlorobiphenyl
32598-11-1/70362-48-0	
32690-93-0	PCB #74 2,4,4',5-tetrachlorobiphenyl
65510-45-4	PCB #85 2,2',3,4,4'-pentachlorobiphenyl
38380-02-8	PCB #87 2,2',3,4,5'-pentachlorobiphenyl
52663-61-3	PCB #92 2,2',3,5,5'-pentachlorobiphenyl
38379-99-6	PCB #95 2,2',3,5',6-pentachlorobiphenyl
41464-51-1	PCB #97 2,2',3',4,5-pentachlorobiphenyl
38380-01-7	PCB #99 2,2',4,4',5-pentachlorobiphenyl
37680-73-2	PCB #101 2,2',4,5,5'-pentachlorobiphenyl
37680-72-3/68194-07-0	PCB #101/90 2,2',4,5,5'-pentachlorobiphenyl/2,2',3,4',5-pentachlorobiphenyl
32598-14-4	PCB #105 2,3,3',4,4'-pentachlorobiphenyl
38380-03-9	PCB #110 2,3,3',4',6-pentachlorobiphenyl
31508-00-6	PCB #118 2,3',4,4',5-pentachlorobiphenyl
38380-07-3	PCB #128 2,2',3,3',4,4'-hexachlorobiphenyl
55215-18-4	PCB #129 2,2',3,3',4,5-hexachlorobiphenyl
52663-66-8	PCB #130 2,2',3,3',4,5'-hexachlorobiphenyl
35694-06-5	PCB #137 2,2',3,4,4',5-hexachlorobiphenyl
35065-28-2	PCB #138 2,2',3,4,4',5'-hexachlorobiphenyl
52712-04-6	PCB #141 2,2',3,4,5,5'-hexachlorobiphenyl
51908-16-8	PCB #146 2,2',3,4',5,5'-hexachlorobiphenyl
38380-04-0	PCB #149 2,2',3,4',5',6-hexachlorobiphenyl
52663-63-5	PCB #151 2,2',3,5,5',6-hexachlorobiphenyl
35065-27-1	PCB #153 2,2',4,4',5,5'-hexachlorobiphenyl

Non-coplanar PCB congeners reported for Herring Gulls at annual monitoring colonies in Table 12 (Volume I)

Non-coplanar PCB conge	eners		
CAS # CO	MPOUNDS		ABBREVIATION (not applicable)
38380-08-4	PCB #156	2,3,3',4,4',5-hexachlorobiphenyl	
69782-90-7		2,3,3',4,4',5'-hexachlorobiphenyl	
74472-42-7	PCB #158	2,3,3',4,4',6-hexachlorobiphenyl	
35065-30-6	PCB #170	2,2',3,3',4,4',5-heptachlorobiphenyl	
35065-30-6/41411-64-7	PCB #170	/190 2,2',3,3',4,4',5-heptachlorobiphenyl/	
		2,3,3',4,4',5,6-heptachlorobiphenyl	
52663-71-5	PCB #171	2,2',3,3',4,4',6-heptachlorobiphenyl	
52663-74-8	PCB #172	2,2',3,3',4,5,5'-heptachlorobiphenyl	
38411-25-5	PCB #174	2,2',3,3',4,5,6'-heptachlorobiphenyl	
52663-65-7	PCB #176	2,2',3,3',4,6,6'-heptachlorobiphenyl	
52663-70-4		2,2',3,3',4',5,6-heptachlorobiphenyl	
52663-67-9	PCB #178	2,2',3,3',5,5',6-heptachlorobiphenyl	
52663-64-6	PCB #179	2,2',3,3',5,6,6'-heptachlorobiphenyl	
35065-29-3	PCB #180	2,2',3,4,4',5,5'-heptachlorobiphenyl	
60145-23-5	PCB #182	2,2',3,4,4',5,6'-heptachlorobiphenyl	
52663-69-1	PCB #183	2,2',3,4,4',5',6-heptachlorobiphenyl	
52712-05-7	PCB #185	2,2',3,4,5,5',6-heptachlorobiphenyl	
52663-68-0	PCB #187	2,2',3,4',5,5',6-heptachlorobiphenyl	
35694-08-7	PCB #194	2,2',3,3',4,4',5,5'-octachlorobiphenyl	
52663-78-2	PCB #195	2,2',3,3',4,4',5,6-octachlorobiphenyl	
42740-50-1/52663-76-0	PCB #196/	203 2,2',3,3',4,4',5,6'-octachlorobiphenyl/	
	2,2	2',3,4,4',5,5',6-octachlorobiphenyl	
52663-73-9	PCB #200	2,2',3,3',4,5',6,6'-octachlorobiphenyl	
40186-71-8	PCB #201	2,2',3,3',4,5',6,6'-octachlorobiphenyl	
2136-99-4	PCB #202		
52663-76-0	PCB #203	2,2',3,4,4',5,5',6-octachlorobiphenyl	
40186-72-9	PCB #206	2,2',3,3',4,4',5,5',6-nonachlorobiphenyl	
52663-79-3	PCB #207	2,2',3,3',4,4',5,6,6'-nonachlorobiphenyl	
52663-77-1	PCB #208	2,2',3,3',4,5,5',6,6'-nonachlorobiphenyl	
		7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	

METHODOLOGICAL AND STATISTICAL NOTES SPECIFIC TO TABLES 11-12 (VOLUMES I & II)

- 1. All analytical data have been calculated on a wet weight basis.
- Means and standard deviations for contaminant data are reported to four decimal places. For percent lipid and percent moisture they are reported to two decimal places. Trailing zeros in numerical values are truncated.
- Dioxin and furan compounds are reported in pg/g (parts per trillion). All other compounds are reported in μg/g (parts per million).
- 4. All but one of the sample sizes reported as (N=1) represent a sample size of 3-13 eggs which were pooled and analyzed as a single sample. The exception is the Great Black-backed Gull sample from Gull Island, Presqu'ile Provincial Park collected in 1994. That sample size of one (N=1) represents an individual egg. One pooled sample consists of three eggs (Herring Gull eggs at Halfmoon Island, Lake Huron in 1994), one consists of four eggs (Great Black-backed Gull eggs at Pigeon Island, Lake Ontario in 1994) and one consists of six eggs (Herring Gull eggs at Pigeon Island, Lake Ontario in 1993). All other pooled samples consist of 7-13 eggs.

To provide a means for comparing values obtained by pooled analysis and individual analysis, some eggs were analyzed both ways within certain years at some colonies. When this was the case the data for pooled and individual analyses are presented in adjacent columns. Nonetheless it is not always the case that when samples were analyzed individually that they were also analyzed as pools. Eggs from the following colonies (and years) were only analyzed individually:

- Big Sister Island, Lake Michigan (1994)
- Agawa Rock, Lake Superior (1995)
- Granite Island, Lake Superior (1995)

To reduce analytical costs, from 1995 on, samples were only analyzed as pools.

5. From 1993 to 1996 the detection limits used in the analytical determination of PCBs, chlorinated benzenes, and organochlorine pesticides varied with the laboratory and methodology used. Changes in methodology principally affected determination and quantification of the PCBs. Detection limits have not been determined formally in every sample but, generally, the following can be used as a guide for samples collected from 1993-96:

All chlorinated benzenes	$0.001 \mu g/g$
All organochlorine pesticides	$0.0003 \mu g/g$
All polychlorinated biphenyls	0.01 μg/g

For Ring-billed Gull eggs collected in 1996, and all eggs collected in 1997, detection limits for all chlorinated hydrocarbons were established at $0.0001 \mu g/g$. Trace levels were determined to be between 0.0001 and $0.0009 \mu g/g$.

For dioxin and furan compounds the minimum detection limits occur between the ranges listed below:

1993-94		1995-97	
Tetrachlorodioxins/furans	1-2 pg/g	Tetrachlorodioxins/furans	0.1-2 pg/g
Pentachlorodioxins/furans	1-2 pg/g	Pentachlorodioxins/furans	$0.1-2 \rho g/g$
Hexachlorodioxins/furans	3-4 pg/g	Hexachlorodioxins/furans	0.1-4 pg/g
Heptachlorodioxins/furans	4-6 pg/g	Heptachlorodioxins/furans	0.1-6 pg/g
Octachlorodioxins/furans	6-7 pg/g	Octachlorodioxins/furans	$0.1-7 \rho g/g$

Fluctuations in the detection limits of dioxins and furans are subject to:

- The cleanliness of the samples at the time of analysis
- The sensitivity of the instrument used to perform the analysis (high or low resolution mass spectrometer). A
 low resolution mass spectrometer was used in 1993-94 and a high resolution mass spectrometer was used in
 1995-97.
- The condition of the ion source of the mass spectrometer at any given time

Trace amounts below the detection limit (signal noise < 3) are estimated and values are placed in brackets, (). Compounds detected at the incorrect ion ration are indicated by 'i' next to the value.

6. From 1993-96 (and for data reported in previous editions of this Atlas) analyses were conducted by gas chromatography using an Electron Capture Detector (GC-ECD) system. In 1997 the gas chromatographic instrument used for the analysis was coupled to a Mass Selective Detector (GC-MSD). This did not affect the results for organochlorine compounds but it did affect the results of PCB congener analysis. The GC-MSD results for PCB congeners were more sensitive than they had been with GC-ECD. This resulted in the reidentification of some congeners, the detection of previously undetected congeners, and changes in the levels reported.

From 1993 to 1996, 42 non-coplanar PCBs were detected, they are the following:

28, 31, 42, 44, 49, 52, 60, 64, 66, 70, 74, 87, 97, 99, 101, 105, 110, 118, 128, 129, 137, 138, 141, 146, 149, 151, 153, 158, 170, 171, 172, 174, 180, 182, 183, 185, 194, 195, 200, 201, 203, 206.

A number of changes were made to the identity of particular PCB congeners when the methodology (GC-MSD) was changed in 1997. These changes were attributed to refinements in methodology and to the greater specificity of congener identification that is possible using the GC-MSD technology. Congener 129 was reidentified as PCB 178, and congener 182 was re-identified as PCB 187. Congener 185 was not reported via GC-MSD, it was reported but rarely detected in via GC-ECD (in one of 57 samples from 1993-96). Five congeners reported individually by GC-ECD and which co-elute from the gas chromatographic column were more properly identified in the newer reporting system which coincided with the adoption of GC-MSD. PCB 60 co-elutes with PCB 56 and is reported as PCB 56/60; similarly PCB 70 co-elutes with PCB 76 and is now reported as PCB 70/76; PCB 101 is now reported as PCB 101/90; PCB 170 is now reported as PCB 170/190; PCB 203 now is reported as PCB 196/203. Congeners 156, 171 and 202 co-eluted (and were reported as PCB 171) by GC-ECD, GC-MSD detected these congeners individually. Sixteen congeners were first reported in 1997: PCB16/32, PCB17, PCB18, PCB 22, PCB33/20, PCB 47/48, PCB 85, PCB 92, PCB 95, PCB 130, PCB157, PCB 176, PCB 177, PCB 179, PCB207 and PCB208. The total number of congeners reported by GC-MSD was 59.

For 1997, the value of sum PCB has been calculated in two ways, one based on 42 congeners eluted by GC-ECD and GC-MSD and the other based on 59 congeners eluted only by GC-MSD. Both values are indicated in adjacent cells of Table 11 in both volumes. When comparing 1997 values of sum PCB to those calculated in previous years the value based on 42 congeners should be used.

All PCB data are expressed as Aroclor 1254:1260 1:1 mixture or Aroclor 1260, as well as total PCB congeners.
 These Aroclor values were obtained using determination of PCB congeners #138 and 180.

However, the results of the Aroclor 1254:1260 1:1 mixture appear to be roughly twice that of results obtained by summing the PCB congeners (total PCB congeners). Factors have been calculated to convert Aroclor 1254:1260 1:1 mixture results to SUM PCB results for Herring Gulls in the Great Lakes only (Turle et al., 1991). Those factors are:

 Lake Ontario
 0.461

 Lake Erie
 0.444

 Lake Huron
 0.484

 Lake Superior
 0.450

- 8. Organochlorine pesticide and PCB analyses were performed by Henry Won at the CWS National Wildlife Research Centre (NWRC) (Peakall et al., 1986).
- Dioxins, furans and coplanar PCB congeners were analyzed in 1993-94 by John Moisey using a low resolution mass spectrometer, in 1995-97 they were analyzed by Mary Simon using a high resolution mass spectrometer (Norstrom et al., 1986). These analyses were done at NWRC. The methods have been automated.
- 10. Chlordane isomers have been presented as alpha-chlordane, trans-chlordane, and oxy-chlordane. Alpha-chlordane is synonymous with cis-chlordane, and trans-chlordane is synonymous with gamma-chlordane.

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SECTION 1 - DATA SUMMARIZED BY SAMPLE SIZE

Figures 1-10. Colonies of Fish-Eating Birds from which Eggs Were Collected for:

- · All Contaminant Analysis (1993-97) and
- Mercury Analysis in Herring Gull eggs (1992)

Tables 1-10. Sample Sizes of:

- · All Eggs Collected (1993-97) and
- Herring Gull Eggs Collected for Mercury Analysis (1992)

Arranged by Collection Site, Species and Compound

14000
-
-
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_
-
2-4
-
1

LIST OF ABBREVIATIONS

Col. No. Colony Number

Spec. Species

Yr. Year of Collection

DCCO Double-crested Cormorant

GBBG Great Black-backed Gull

HERG Herring Gull

RBGU Ring-billed Gull

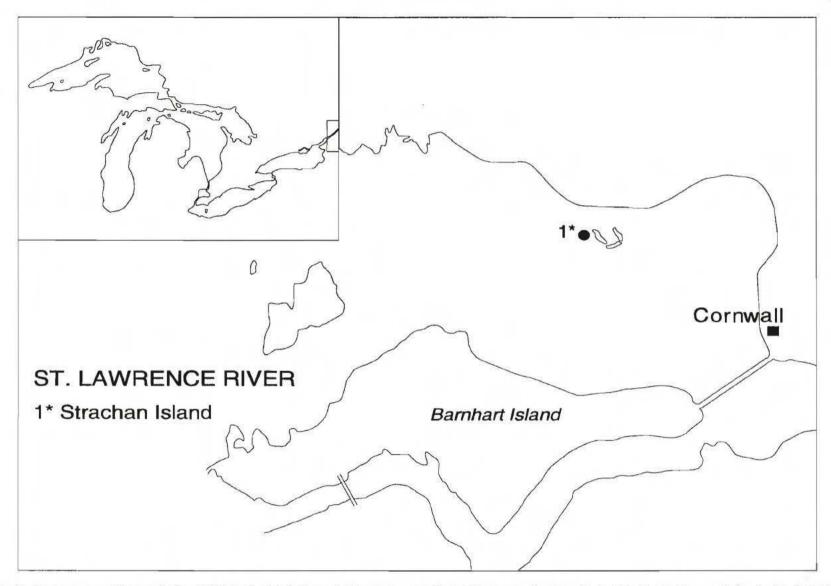


Figure 1. St. Lawrence River colonies of fish-eating birds from which eggs were collected for contaminant analysis. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

Col. No.	YOU THE WAY					1234-1245- CB CB	PeCB HCB	DDD DDE C	DT Diel	North Colonial Coloni	P- B-	SERVICE SHOULD BE THE T	MIR P-	c- t- non nor	DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NA	PCB SUM 1254: PCB 1260	PCB
1*	DCCO	95	1		1 1	1 1	1	1	1 1	1 1	1 1	0 1	1 1	1	1 1	1 1 1	0 0
Sec. activation	HERG	92ª	0 0	0 0	0 0	0 0	0 0	0	0 0	0 0	0 0	1 0	0 0	0	0 0 1	0 0	0 0
	學想得	93	期 1		1 1	183	1 1	19	19 1	1	1	0, 1	1 1	1	1 1	1 1	0 1
	F.Z.	94	# 1	1	1 1	1	1	19	1 1	12.3	1 1	0 1	1	1	1 1	1 1	1
		95	1 1	1	1 1	1	1074	1240	1 1	1 3	1 1	0 1	1	1 153	1 1	1 1	1 1
	4 2	96	1 1	1	1 1	175	140-7,24	16360	1 1	1	1.55	0 1	1	1	1 1	1 1	1
	1	97	1 1	199	1-11	1500	1世 河南	18470	100	10/49	1 1 1 1	0 1	1	1 20	1 1	1000	1 1
	RBGU	94	-1	I FIRE	1111	1	1	1	1 1	11123	1 1	0 1	1	1,000	1 1	1 1 1	0 0
	4:25	96	1	1	12:07	1	1	1	1 1	1 23	1 1	0 1	1 1	1	1 1	1	0 0

^{*} For all 1992 data (except total mercury) see Pettit et al. (1994a,b).

Table 1. The sample sizes of eggs analyzed in each year (1992-1997) from the St. Lawrence River, arranged by collection site, species sampled and compound analyzed. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

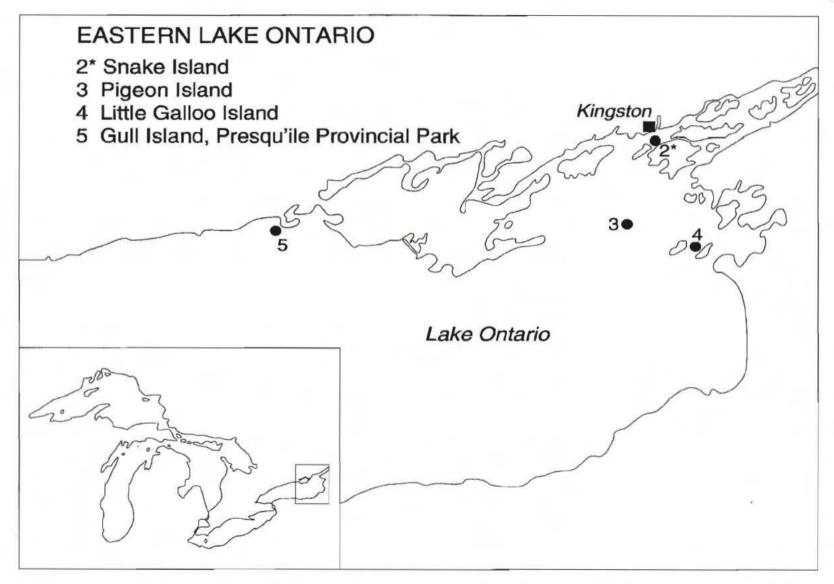


Figure 2. Eastern Lake Ontario colonies of fish-eating birds from which eggs were collected for contaminant analysis. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

	Spec.										B HC	8 0	DD D	DE	DDT	Diel						TCPN	A MIE		C-	t-				SUM COP	Furan
No.		N. S.	Lip	Mois	chi	chi	chi	CB	CB				場は				-	CH	НСН	ICH				MIK	non	non		1260	1254	PCB PCB	
2*	HERG	92") 0) 0		0)	0	0	0	0	0	0	0	0	0	0	0	1		0	NET THE	0 (0	0 (0 0	C	0	0 (
		93		1	1		=1	1		1	188	23	1		1	1	1	1	1	1	0		1	199	1	1	1	1	1	0	1 1
		94	腦	1				- 1	1387	1	1問題	1	18	1	1		1號	1	1	1	0		1		1		1	1	1	1	1 1
	黑腳的	95		1 1			1	1		1	155	1	18		1		1鏖	1	12	1	0		1		1		1	1	1	1	1 1
Э	No.	96	压	1	题			1	STATE	1	1	1	1顯		1		1廳	1	1	1	0		1		1		1	1	1		1 1
		97	No.	1 1				1	類線	1	11.16		155		1		110		1	1	0		1		1		1	1	1	1	1 1
1111111-720.1	DCCC														611				East	1	0				HOR				思护的	0	0 (
	GBBG		题	1			1	1		1	1	1	1/2		1		11	施到	1	1	0		1		1	能關	1	1	1	0	0 0
		94		2		1	2	- 12		2	2	2	2	2	2		2		4	4	0		2				2				
	HERG	The second	讔	1	39			3			182		- 12		1		18		100		0		1	1000	1		1				
453 4 829 8	0000	94	B	des Pictors				or policies		District	11.0		N. September 635	10	1		Picturality	œ.	rarelina de		0		99003		Augrania Augrania	1000	enectar Perectar		SHITTES		
120 120 E	DCCC GBBG	MOPHO CRECK	UAS DEA:30	16. 科2图				1-29	100 E	11/2	THE RES		N. 5785155		STAR		用石榴岭		地類		0		ARTHE.				104407		題制得		
	GDDC	94	A		85		Sec.				1200		157		1		196	200	- E		0				1		1				
	HERG		10.0	1				- 4		4		994	100	138	1		整		10		Ö		1	SE	1		4		1	0	1
		94	我想		10					1	湖		18	现象	1		180		1		0	44	1	17 11 2	1		1	1			1
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^{*}For all 1992 data (except total mercury) see Pettit et al. (1994a,b).

Table 2. The sample sizes of eggs analyzed in each year (1992-1997) from eastern Lake Ontario, arranged by collection site, species sampled and compound analyzed. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

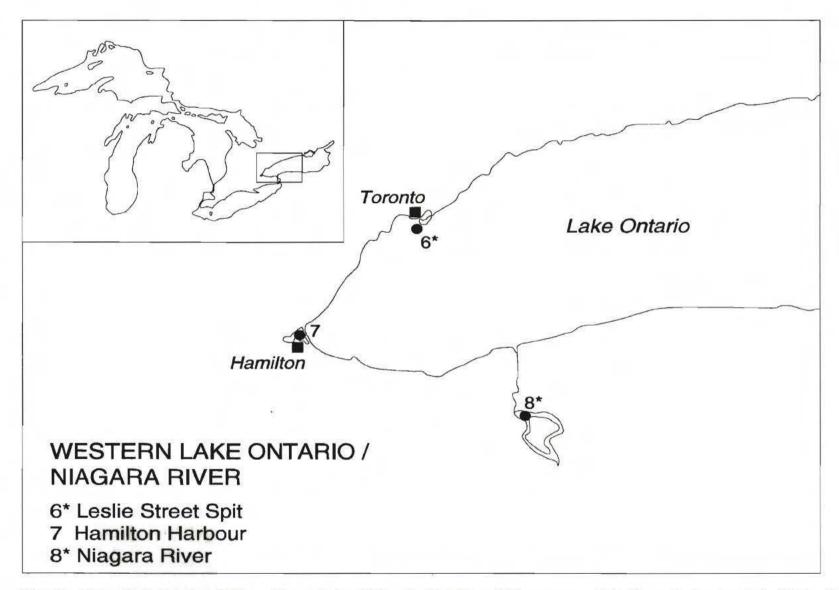


Figure 3. Western Lake Ontario and Niagara River colonies of fish-eating birds from which eggs were collected for contaminant analysis. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

Col. No.	Spec	. Y			% a- lois chi				PeCB HC	B DDD	DDE	DDT)lel H		b- HCH H	g- H	lg T	CPM	MIR	P- MIR	c- non				PCB 1254:			Dioxin	Furan
									18A		MIS	9													1260				
6*	HER			0	0 0	0 (THE RES	0 0	0		0 0	0	0	0	0 0	0		0	C	0		0	0	0	0	· ·) 0		
		9	200	1	1	1			155		1	15		1998	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0		1	1	1		1		1		0		
	3 17	9		1	1939	1500			1536	10/1 14/2	100	10	聘	1003	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0		- 1		1		1		1	問題	1		
	MACON CAPE	9		7/3 1	1 (40)	199		DESCRIPTION OF THE PERSON OF T	1990		TENEDONE I	第	1	188	1111	1	0		1		1		1		1		1		
	Target Comp.	9	E	201	(Cap)	- 1002 B		是的	189	6.3	學課	100		155,00	! 120		0		1		1		1		1		1		
	series al	9	med 4.8 /	2	1111	110-0	37764-30	男装要	1. Berton Lineabell			120		1000	1500		0		1	2012	1 omiromos		1)	1	15		1		THORNWAY SHARE
7	DCC	9			THE STATE	PART	は一つまた		2.2375	530		第5 年			100		0				Berger.						9		MALE.
	HERO			0	0 0	0 () (0	O	EN-	U U	0	0	0	0	O	199	O	0	U	0	0	0	0	0		0		
	19/10/19/	9	- N	2	1558	199		CLATCH	120	255 255		9/6	37	1596	1四		0	包观	1		1		1		1		0		
		9			10.2	1000		The state of	Big C	50.4	克里斯	100		THE REAL PROPERTY.	選		0		3]		1		1900		1		
		9	- an		1236	183		2533	100	Maria Maria	建筑	1		調鐵	156		0.05		1]		1		1				
	PR	9	100	796	1900	166		SUSTAINED SERVICE	競		最影響	1		5000			0	機器	1		1		1		10		1		
	RBGI		Control public	100	100	122		法理	1						12	-					,		1		10				
	ROGI	9		4	100	138		4 1 3	400		4 4	2	4	4		4	0	4	4		4	3100	4	-	- 4				,
8*	HERO			0	115 100		OH ASED	Control Called	MOTO A WALLE	ili One orbin		A		0	0	0	24		L-STATE OF				100000		STATE OF THE PARTY		Derrica San		SHARE ICHINA
901	DEN	9					CL TANK		阿拉根立建造	新新於用	THE PERSON NAMED IN	aliana.	4			4		ST NO.		11	BRSW.		7				0		REPORTED IN
		4			80254 6526			推頭	133	16	EEE				. 3		Č						41		1		4		
		9	40	955	4100			1988	1		B	18		1130	9		0		1		4		4		- 1				
	14	9	S. 571 (250)	38	WE				188			1		46			^					100	1		- 1				
	FEE	9	250 AC	100	900			THE REAL PROPERTY.				10		45000	1 19		0						1	1313	The state of				
-	Residen	3.31	- 18	Jiez.	5112	a principal	1		a Dottit at	4	1115311	110		1019.00	1100	HHZ	U	E/3		JEE 191		The state of		HARRY.	- 1			Control of the Contro	

^{*}For all 1992 data (except total mercury) see Pettit et al. (1994a,b).

Table 3. The sample sizes of eggs analyzed in each year (1992-1997) from western Lake Ontario and the Niagara River arranged by collection site, species sampled and compound analyzed.

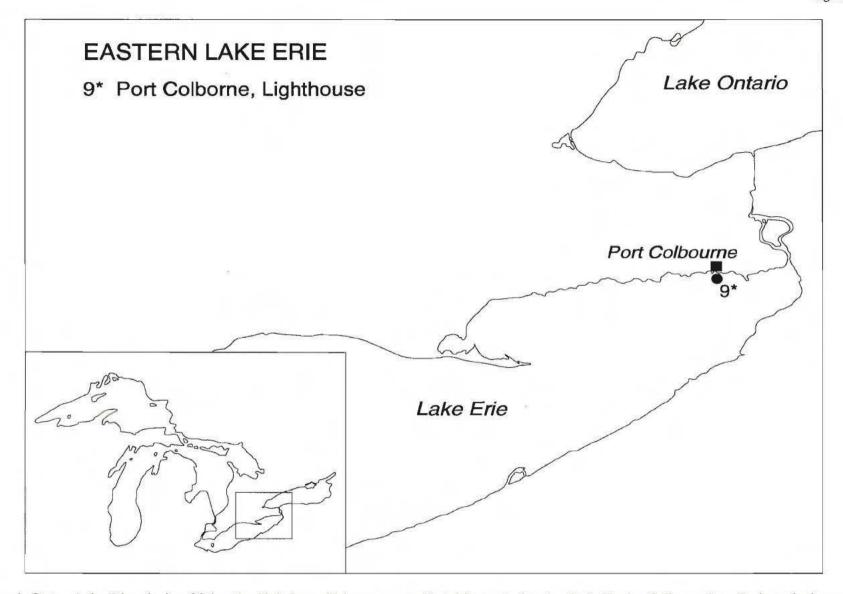


Figure 4. Eastern Lake Erie colonies of fish-eating birds from which eggs were collected for contaminant analysis. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

Col. No.	17 16 164	ec. Y		% 9						PeCB	HCB	DDD	DE C	ODT Diei	TOO SECTION	REPUTP	P- B-	1000000	TCPM	MIR	P- MIR		CARRELL THE CONTRACT				PCB PCE		Furan
9*	HE	RG 9: 9	3	0 1 1	0 1 1	0 1 1	1	1 1	0 1	1 1	0 1	0 1 1	0 1 1	0 0 1 1 1 1	0 1 1	1	0 0 1 1 1 1	0 0	0 1		1	1 1	1	1	1			0 0	0 0
		9	6 : 7 :	1	1, 1	1	1	1		1	1	1): 12	1	100	1/50	1	1 1	0	1		1	1	1	1	1	1		1	1 1

^{*} For all 1992 data (except total mercury) see Pettit et al. (1994a,b).

Table 4. The sample sizes of eggs analyzed in each year (1992-1997) from eastern Lake Erie, arranged by collection site, species sampled and compound analyzed. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

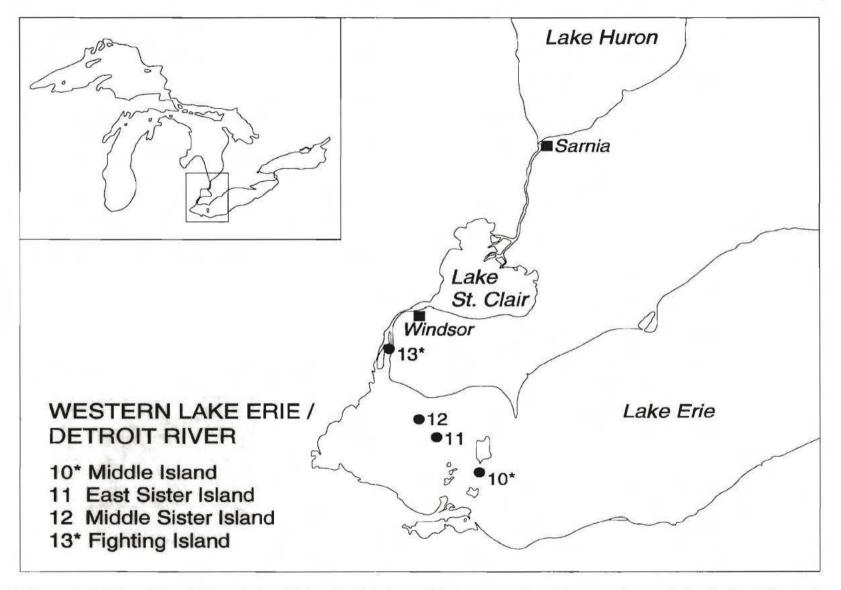


Figure 5. Western Lake Erie and Detroit River colonies of fish-eating birds from which eggs were collected for contaminant analysis. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

Col.	Spec.									HCB	DDD DDB	DDTD	Het I				TCPM	MIR	P-	C-	_ t -	3			1007041140		Dioxin	Furan
No.			Lip	Mol	schi	chi ch	C	В СВ						НСН	нсн нсн				MIR	non	non			1254: 1260	PCB	PCB		
10*	HERG	92	C		0 0		0	0	0 0	0	0	0 0	0	0 0	0 0	1	ō		0	0	0		0	0		0	_ 0	0
-		93	200		1 1	1	1	1	1 1	. 1	1	1 1	11	1	1: 1	0	1		1	1	1	1	1	1		0	1	1
3		94			1000	骤	1	120	1 1	200	155回	1 1	1	153	1999	0	. 1		1	1	1	1	1	1		1	. 1	1
3	AND S	95	控網		1319	-39	1	1	1 1		1辦部	1 1	1	1	1	0	1		1	1		1	1	1		1	1	1
900		96	100	1	100		1	1533	1 16	**	1	1 1	1	1822	160-31	0	. 1		2001	1		1	1	1		1	1	1
		97	1	1	1		1	166.00	1		1	1 1		1	153551	0	1		1	1		1	1	1		1	1	1
11	DCCO	95	21	HELL	1 1	Waste.	DESIGNATION OF THE PERSON OF T		1 1	1	1	1 1	1	3233	1 1	0	1		思想	28311	1	1000				0	0	0
12	HERG	94	No.		1 1		(146	1 1	1	1	1 1	11	1 1	1 1	0	1		1			1000	1	1		1	- 1	1
13*	HERG	92*	O) (0 0		0	0	0 0	0	0 1	0 0	0	0 0	0 0	1	0		0	•	0	C	0	0		0	0	0
		93	1		1	11%	1	1	1 1	1	1987	1 1	1	1	150001	0	1		1	1	1	1	1	1		0	1	1
1 8		94	2		1 3	+34	1	1	1	17-48	1351	1 1	1	18993	1999	0	1		1	1		1		1		1	. 1	1
	" n 10 100	95	14	i i	Cypell	18	1	100000	1 1	- 4	1是 46	1 1	1	1 16 3 3	1	0	and the		1	1	1	1		1		1	1	1
- 5	r of the	96	-1	1	1 4	100	1	1500	1 1		11	1 15	de	15-24	1 1	0	200		1	1	Mail	1	E I	1	THE REAL PROPERTY.	1	1	1
- 5	E-1-7-3	97	Person	1	1 1	Nage 1	1	1000年	1 1	1	188	1 1	1	163	193	0	1			1		1	1	1		1	1	1
3	RBGU	96	17-19		1 1	123	1	1	1 1	1	16	1 15	1	1	1 1	0			1	1		1	1	1		0	0	0

^{*}For all 1992 data (except total mercury) see Pettit et al. (1994a,b).

Table 5. The sample sizes of eggs analyzed in each year (1992-1997) from western Lake Erie and the Detroit River arranged by collection site, species sampled and compound analyzed. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

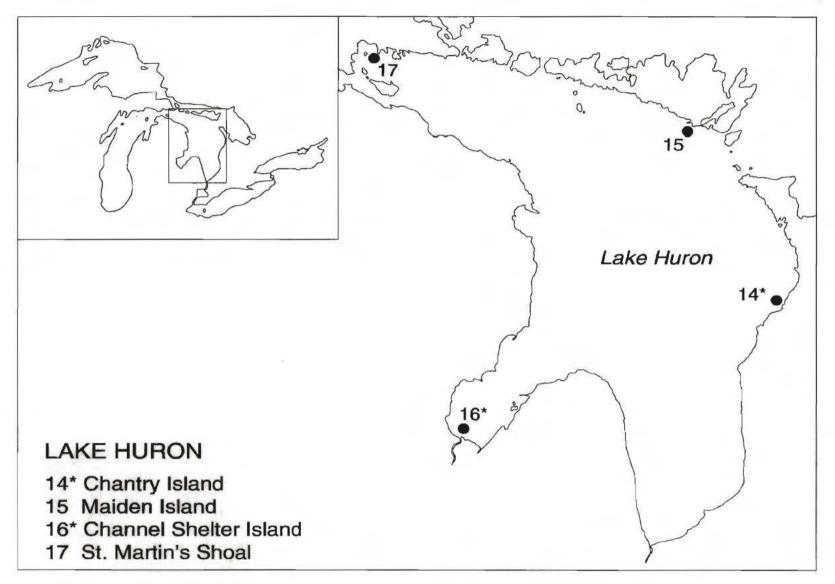


Figure 6. Lake Huron (main body) colonies of fish-eating birds from which eggs were collected for contaminant analysis. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

	Spec							PeCB HC	B D	DD DDE	DDT Diel			Hg TCPI	MIR.	P-	C-		100	Children	10.00mm(2).0000	COP Dioxi	Furar
No.		4	Lipi	Mois chi c	hichi	CB	CB	30.0				HCH	нсн нсн			MIR	non	non	1	CHIEFFE CHIEF	64: PCB	PCB	
14*	HERO	3 92	0	0 0	0	. 0	0	0	0	0 0	0 0	0 0	0 0	1	0	0	0	0	0	0	0	0	0
odil logistica		93	11	11 11	1 11	11	11	11	11	11, 11	11 11	11 1	11 11	0 1	1 1	11	11	-11	11	11	11 1	0	1
		94		1891	100	1	1	1	1	1 1	1 11111	1	1 1	0	1		1		1	1	1	1	1
		95		1 1	1	1	1	1100	1	1 1	1 1	1	1 1	0	1	1	1	1	1	1	120	1	1
	100	96	251	1, 1	1	1	1	1	1	1, 1	1531	150	1 1	0	1	1	1	1	1	1	1	15000	1
		97		1177		1	1	1	1	1 1	1 1	1999	1 1	0	1		1		1	1	1	1	1
15	HERO	3 93		1 1		45.04	1		1	1 1	1 1	11	1	0	1		1	1	1	1		0	0 1
16*	HERO	3 924	0	0 0	0	0	0	0	0	0 0	0 0	0 () 0 0	1	0	0	0	0	0	0	0	0	0 (
	Solt o	93	14	14 14	1 14	14	14	14	14	14 14	14 14	14 14	14 14	0 1	4 1	14	14	14	14	14	14 1	0	1
	200	94	1	1 1	-31	1	1	100	1	1	1	1	1	0	1		1	西腊	1	1	1	1	1
	120	95	1	1 1	1	19	1	1	1	1	10.11	1933	1 1 1 1 1 1	0	t	91441	1	1	1	1	1	1	1
	NE.	96	. 1	1 1	1	1	1	1	1	1. 3	1	1212	1 1	0	1	1	1	1	1	1	1	1.	1
	To be	97	. 1	1 1	1	1		1 1000	1	15-12-1	1 1	1記温	1 1	0	1	100	1	1	18	1	1	1225	1
17	HERO	3 924	0	0 0	0	0	0	0	0	0 0	.0 0	0 (0 0		0	0	0	0	. 0	0	0	0	0 (

^{*}For all 1992 data (except total mercury) see Pettit et al. (1994a,b).

Table 6. The sample sizes of eggs analyzed in each year (1992-1997) from Lake Huron (main body) arranged by collection site, species sampled and compound analyzed. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

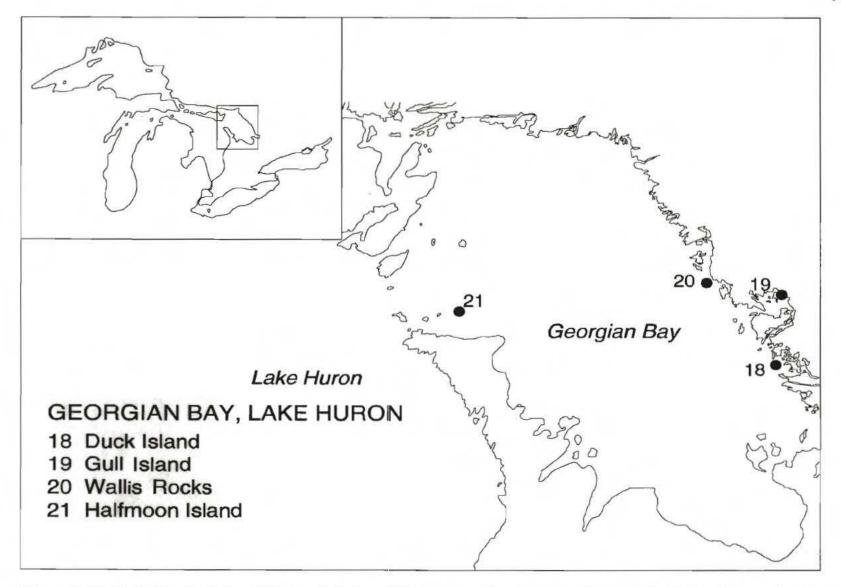


Figure 7. Georgian Bay (Lake Huron) colonies of fish-eating birds from which eggs were collected for contaminant analysis. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

Col.	Spec.	Yr.	%	%	a-	g-	0- 1	234-	1245-	PeCE	HCE	3 DD	D DDE	DD	T Die	HE	a-	b-	g-	Hg	TCPM	MIR	P-	C-	t-	ocs	PCB	PCB SUN	COP	Dioxin Furan
No.			Ц	Moi	s chi	chic	hl	СВ	CB								HCH	HCH	HCH				MIR	non	non		1260	1254: PCB 1260	PCB	
18	HERG	03		1 Day -	1 0	MINER	0	0	- 0		THE REAL PROPERTY.	0	0	0	0	0 0	0	70	-0	0	0		0	0	0	- 0	0	0	0	
SUSPERIOR	HERG	HEREBY.			1 0		0	0	o	學歷		0	0	0	0	0 0	0	0	0	0	ő		o	0	0	Ŏ	0	Ö	o	
STEPHEN.	DCCO			1	1 1		1	1	1			1	1	1	1	1 1	1	1	1	0	1		1	1	1	1	1	1	0	- 0 - 0
21	GBBG	94		開閉	1 1		1	1	1		1	1	1	1	1	1		1	1	0	1	1000	1	1	1	1	- 1	1	0	0 0
t acmer	HERG	94		1	1 307		1	1	1	Section 1		1	150	1	1	1 1	1	1	1	. 0	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	1	1	1	1	1	0	0 0

Table 7. The sample sizes of eggs analyzed in each year (1992-1997) from Georgian Bay (Lake Huron) arranged by collection site, species sampled and compound analyzed. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

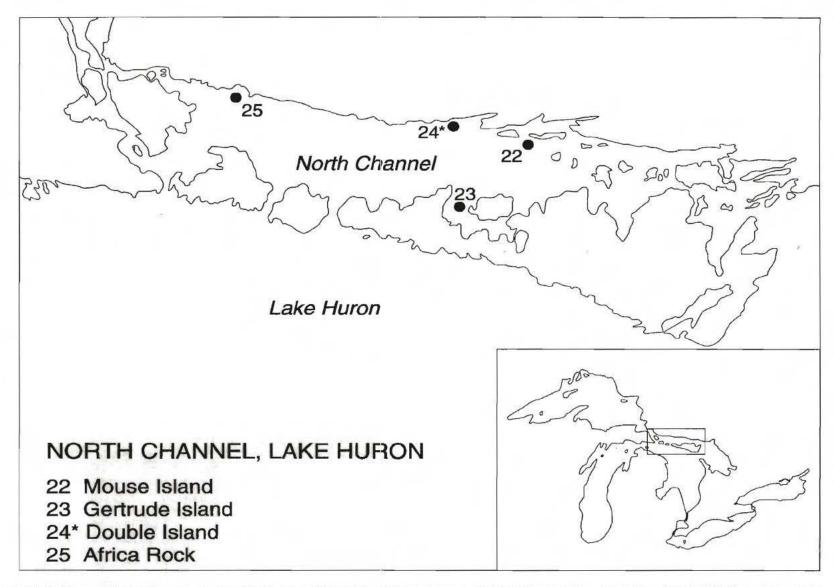


Figure 8. North Channel (Lake Huron) colonies of fish-eating birds from which eggs were collected for contaminant analysis. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

Col. No.	CONTRACTOR OF THE PARTY OF THE	4	37000		PORTEGOS!	7,000	- ACC	L-1245 CB	PeCB HCB	DDD DDE	DDT Diel	NYCHTRIBO	P- G-	E100790000000	MIR P-	c- t- non non	1260 1	254: PCB	COP Dioxin Furan
22	HERG	94	ENGINE AND ADDRESS OF THE PERSON NAMED IN COLUMN ASSESSMENT AND ADDRESS OF THE PERSON NAMED IN COLUMN ASSESSMENT ASSESSME	1	2 1	- ES	ALCOHOL:	1 1		1 1	1 1	1 1	1 1	0 1		1		260	4 4 4
HEADONE	RBGU	e realisate de la composition de la co	1	2.1	1		1	1 1	1 1	. 1 1	1 1	1 1	1 1	0 1	1	1	1 1 1		1 1 1
24*	HERG	92*	0	0	0	63(1)	0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0	0 (0 0	0	0 0 0
		93	-11	11	11	1 1	1 1	1 11	110011	11 11	11 11	11 11	11 11	0 11	1 3 41	11	1 11 11	11 1	0, 1 1
	ale sa	94	9	1	1	399	1	1999	1999	1	1 1	1	1四頭	0 1	福祉	100	1 1 1	1/855	1 1
		95	-191	1	1	42	1	1		19	15.91	1066	1656	0 1	1289	1933	1200	1	1 1
	No. Fig.	96		1		21.0	1	1	事員	1	1 [58]	1538	199	0 1		1999	10111	1 6 2	1 1 1
TO SEC.		97	明禮	1			1	15001		135-01	101			0 1		1999		1085	1 1 1
25	DCCO	95		2500			1						1 1	0 1		A COLUMN	Legisla 1	A STEP	0 0 0

^{*}For all 1992 data (except total mercury) see Pettit et al. (1994a,b).

Table 8. The sample sizes of eggs analyzed in each year (1992-1997) from North Channel (Lake Huron) arranged by collection site, species sampled and compound analyzed. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

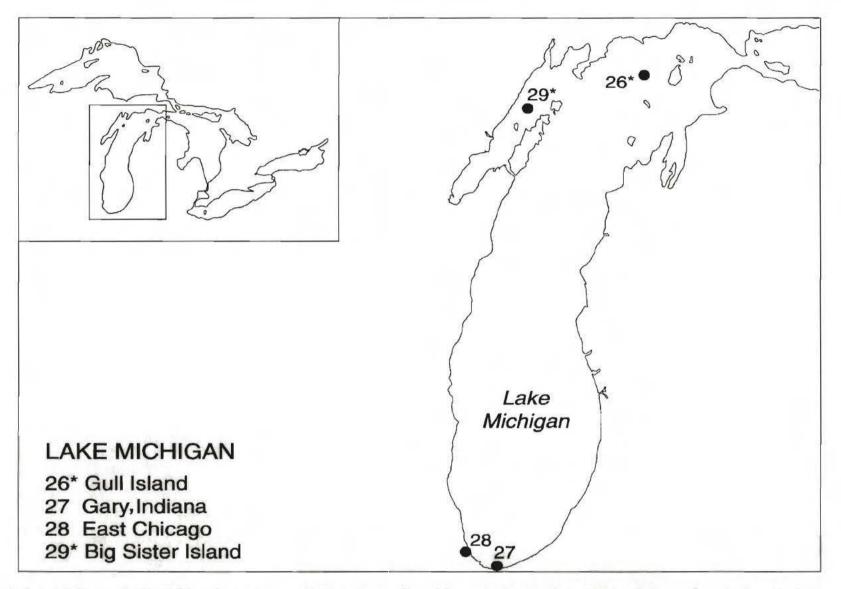


Figure 9. Lake Michigan colonies of fish-eating birds from which eggs were collected for contaminant analysis. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

12000	Spec	c. Y		%	8	a-					Figure 1	PeCB	HCB	DDD	DDE	DDT	Diei			b-			TCPN	MIR	THE PROPERTY AND THE	C-	t-	and the same	174TO1/25021(1440)	10 PS SERVICE 1	Chica Previous advance			n Furan
No.	SH	1	State Charles	Llp	Moi	s ch	ch	chi	CB	C	В	47.00			3.79		疆		HCH	HCH	HCH				MIR	non	non		1260	1254: 1260		PCB		
26*	HER	G 9	2	0		9 ()	0		0	0	0	0	0	0	C	0 0	Ô	0	0	C	1		5	0	C		0 0) C	0		Ó	6,400	0 0
Security 1913	25		93	1	-	1		1	HILD THE	1	1	10	1	1	1	1	1	1	1	1		0		1	1	1		1	1 1	1		0		1 1
		E 1	94	13	1	3 1:	1	13	1	3	13	13	13	13	13	13	13	13	13	13	13	0	13	3 1	13	13	1	3 13	3 13	13	1	1		1 1
	Setz.	1480.4	95			148	1	1		1服	1	1	1	1	1	1		1	1	1		0	i i	1	1	1		1	1	1		1		1 1
		and the second	96			1题	1			1889	1	1		1	1	1	Page 1	1	10	1		0		Į.		1	慰服	1	1	1		1		1 1
	3.3	Color	97	1		1	l	13		1日	1	1	1	1	1	1	Fills.	1	1	1	8.54	0		1	1	1		1 '		1		1		1 1
27	HER	RESISTED 1/10	93	脂肪		hi		1.11			1	1	1	239	1			4	1	1		0			1					1		1		1 1
28	HER	G I	93	1			No.	1		1	1	1	1	1	1			1				0	1.28	1	1	1			1 1	1		1	14100	1 1
		趣.	94	1		1	L	行機		1988	1	1	1	1	1	1		1	1	1	国品版	0		1	思透析	1		1	1	1		1		1 1
	200	予照 キャールバ	95		ST WAR	1	1	雞		188	1	1	1	1	1	1		1	1	1		0		1	12.511	1		1 1	1	1		1	ing	1 1
29*	HER	G 9	2*	0) ()	0		0	0	0	- 0	0	0	C) 0	0	0	0	0	1	•	3	0	C) (0 (0 0	0		0		0 0
5000,000	1		93	-1		1	1			153		1	1	1	1	1	1	12	1	1	1	0		1	MET 1	1		1	1	1		1		1 1
		E	94	13	1	3 13	1	13	1	3	13	13	13	13	13	13	13	13	13	13	13	0	13	3 1	13	13		3 13	3 13	13	1	1		1 1
	38	MELT	95			150	1			1	1	1	1	1	1	1	1	1	1	1		0		1	1	1		1 1	1	1		1		1 1
	TOP	BURNS	96			1驅	1	1		1	1	1,	1	1	1	1		1	清朝	1		0		1		1		1	1	1		1		1 1
	1	Ale I	97	1				1	1	1	1	1		1	100	1		15	000	1		0	130	1		1		1 1		1		1		1 1

^{*} For all 1992 data (except total mercury) see Pettit et al. (1994a,b).

Table 9. The sample sizes of eggs analyzed in each year (1992-1997) from Lake Michigan arranged by collection site, species sampled and compound analyzed. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

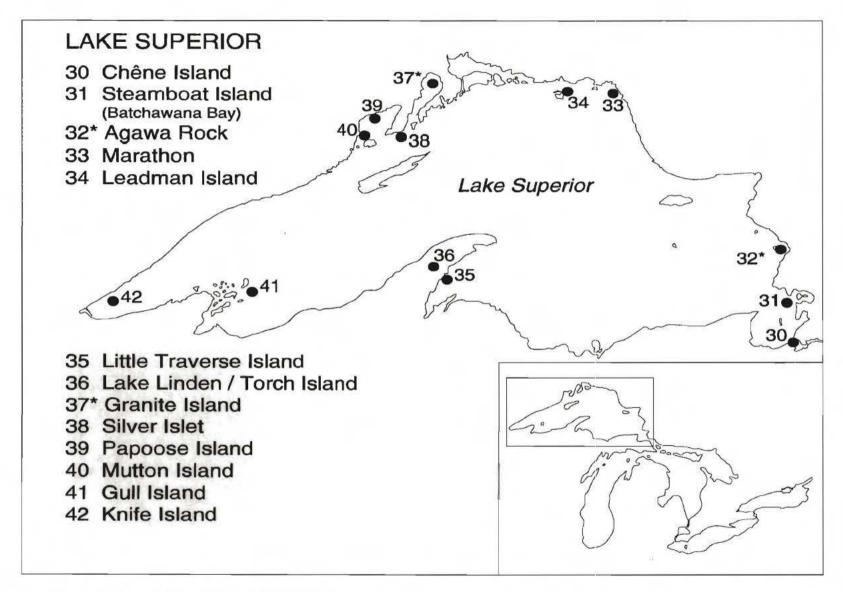


Figure 10. Lake Superior colonies of fish-eating birds from which eggs were collected for contaminant analysis. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

	Spec.									PeC	HCI	D	DD D	DE	DDT	Die	# HE		1457FU	b-			TCPI	MII			C-	t-							in Furan
No.			LIP	Mois	chi	chic	ni	CB	CB				Ä					H	SH F	HCH	нсн				M	IK.	non	non		1260	1254	· 10707HHE03	PCE		
30	HERG	92	0	0	0		0	0	0	بند	0	0	0	0	0		0	0	0	0	0	. 1		0		0	0) () (0		0	0 (
31	DCCO	95		. 1	1	STATE OF A	4		1		1	1	1	1	1		1	1	1	1	1	0		1		1	1							0	0 0
32*	HERG	92	0	0	0	Light.	0	0	0	er fre g	Oecora)	0	0	0	0		0	0	0	0	0	1		0		0	0	C) () ()		3	0 0
	- AREA	93	24	1	ALL F	(80)	1	1	Ship!		1新幅	1	188	-1	1	胸	1	1	1	1	1960	0	能夠模	t		1	1		1				6	0	1 1
	PSOPLESS	94	150	1	199	54	1	1	ball!		1995	1	1能	2010	1	MA	1	1988	1	1		0		1	Ble	1	1		1						图 1
	Pares de	95	14	14	13	1	13	13	13	1	3 1	3	13	13	13		3 1	3	13	13	13	0		3 1		13	13	10	13	13	1:	3 1		1	1 1
	are de	96	1	1			5	1			1	1	1	1	1		1	1	1	1	1	0		1	100000 100758	1	1							1909	1 1
	P. San	97		1	1		1	1	423		1	1	10	1	1		1	1	1	1	1	0	學問題	1	問題	1	1	Ham	1	ES IN	1	翻翻			1 1
	HERG			0	0		0	_ 0	0	. 64	0	0	0	0	0		0	0	0	0	0	1		0		0	0	• 0) () (1 ()		0	0 0
34	HERG	PERSONAL S	mic-into	0	0		0	0	0	斯尼斯	0	0	0	0	0	學部	0	0	0	0	0	1		0	356	0	0	C) () ()		9	0 0
35	HERG		0	0	0		0	0	0		0	0	0	0	0		0	0	0	0	0	1	200	0		0	0) () (0	0 0
	HERG		0	0	0	152	0	0	0		0	0	0	0	0		0	0	0	0	0			0		0	0	C) ()		3	0 0
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^{*}For all 1992 data (except total mercury) see Pettit et al. (1994a,b).

Table 10. The sample sizes of eggs analyzed in each year (1992-1997) from Lake Superior arranged by collection site, species sampled and compound analyzed. Herring Gull annual monitoring colonies are indicated by an asterisk (*).

-	-	-	-	-	-			-	-	-	-	
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Table 11. Contaminant Data, Summarized by Compound

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TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PERCENT LIPID IN EGG

ST. LAWRENCE RIVER		YEAR					
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			5.4		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	8.7	8.7	8.5	7.6	8.04
	RING-BILLED	N		1		1	
	GULL	MEAN STD		9.7		8.55	

LAKE O	NTARIO		YEAR						
			93	94	95	96	97		
COLONY	SPECIES								
SNAKE ISLAND	HERRING	N	1	1	1	1	1		
	GULL	MEAN	9	9.2	8.8	8.5	7.33		
		STD							
PIGEON ISLAND	DOUBLE-	N			1				
	CRESTED	MEAN			4.7				
	CORMORANT	STD			15505	1			
	GREAT BLACK-		1	2					
	BACKED GULL	MEAN	8.7	8.65					
		STD	74,070	0.4950					
	HERRING	N	1	1	1				
	GULL	MEAN	8.5	9.1					
		STD				1			
LITTLE GALLOO	DOUBLE-	N	- 1		1				
ISLAND	CRESTED	MEAN			4.5				
	CORMORANT	STD							
	GREAT BLACK-	N	1	1					
	BACKED GULL	MEAN	7.6	7.9					
		STD							
	HERRING	N	1	1					
	GULL	MEAN	9.2	8.8					
		STD	****	200					
GULL ISLAND,	GREAT BLACK-	N	1						
PRESQU'ILE	BACKED GULL	MEAN	8.7		1				
PROVINCIAL		STD	-MOUNT		4				
PARK	HERRING	N	1						
17.00	GULL	MEAN	9.1						
46.4		STD	3.54.76	1					
LESLIE STREET	HERRING	N	1	1	1	1	1		
SPIT	GULL	MEAN	9.4	9.5	9.3	9.1	7.4		
100		STD							
HAMILTON	DOUBLE-	N			1				
HARBOUR	CRESTED	MEAN			4				
	CORMORANT	STD							
	HERRING	N	1	1	1	1	1		
	GULL	MEAN	9.3	8.6	7.9	8.2	7.47		
	Shirt-off Sale	STD	500,500,5	.996-3	15.000.0				
	RING-BILLED	N		2	1				
	GULL	MEAN		9.5	8.53				
	CONTRACTOR OF THE CONTRACTOR O	STD							

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

NIAGARA RIVER			YEAR						
			93	94	95	96	97		
COLONY	SPECIES				-				
NIAGARA RIVER		N	0.1	1	2 -	0 0	7.00		
	GULL	MEAN STD	9.1	9	8.5	8.3	7.65		

LAKE ERIE			YEAR						
			93	94	95	96	97		
COLONY	SPECIES								
PORT	HERRING	N	1	0	1	1	1		
COLBORNE	GULL	MEAN	8.9		8	8.9	7.49		
LIGHTHOUSE		STD				1			
MIDDLE ISLAND	HERRING	N	1	1	1	1	1		
	GULL	MEAN	9.3	8.5	8	9.3	8.8		
		STD		-	0.00				
EAST SISTER	DOUBLE-	N			1				
ISLAND	CRESTED	MEAN		1	5.1				
	CORMORANT	STD			1/4				
MIDDLE SISTER	HERRING	N		1					
ISLAND	GULL	MEAN		8.8					
		STD							

DETROIT RIVER		YEAR					
3,000			93	94	95	96	97
COLONY FIGHTING	SPECIES HERRING	N	1	1	1	1	1
ISLAND	GULL	MEAN STD	9.9	7.9	8.5	7	7.29
	RING-BILLED GULL	N MEAN STD				8.65	

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	-
ISLAND	GULL	MEAN STD	9.8	9.5 0.9888	8.5	8.2	9	7.82
MAIDEN ISLAND	HERRING	N	1			1		
	GULL	MEAN STD	9.7					
CHANNEL	HERRING	N	1	13	1	1	1	
SHELTER ISLAND	GULL	MEAN STD	11.1	11.0769 3.0795	8.9	7.4	7.9	7.74
DUCK ISLAND	HERRING	N	1	-				
	GULL	MEAN STD	9.3					
GULL ISLAND	HERRING	N	1			1		
	GULL	MEAN STD	8.9	11				
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED CORMORANT	MEAN STD				4.3		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PERCENT LIPID IN EGG

LAKE HUR	ON (CONT.)				YEAR	3		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD			8.3			
	HERRING	N			1			
	GULL	MEAN STD			8.4			
MOUSE ISLAND	HERRING	N			1		Y	
	GULL	MEAN STD			8.7			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			9.5			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	9	9.28 1.2354	9	7.5	9	8.38
AFRICA ROCK	DOUBLE-	N		1		1		
	CRESTED	MEAN STD			×.	5.3		

LAKE M	ICHIGAN		YEAR								
)	93	94	94	95	96	97			
COLONY	SPECIES				1						
GULL ISLAND	HERRING	N	1	1	12	1	1	1			
	GULL	MEAN	9.9	9.3	9.175	8.5	8.2	7.57			
1.6.		STD			0.7899						
GARY, INDIANA	HERRING	N	1								
Participation of the Control of the	GULL	MEAN	8.9								
		STD									
EAST CHICAGO	HERRING	N	1	1		1					
	GULL	MEAN	9.4	8.8		8.4					
December 1		STD		200							
BIG SISTER	HERRING	N	1	13		1	1	1			
ISLAND	GULL	MEAN	9.1	8.9		8.5	11.9	7.73			
APPENDENT CONTENTS	0.240.200.200.20	STD		0.9229		1000	2.552	30.137.75			

LAKES	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			5		
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	8.3	8.5	8.8	8.5	7.19
		STD		68.60	0.8093	2544	
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	8.4	9.5	8.6692	- 1	8.13
		STD	- 60		0.8460	N	
	RING-BILLED	N				1	
	GULL	MEAN				7.95	
		STD					
SILVER ISLET	HERRING	N				1	
Participation of the Control of the	GULL	MEAN				7.2	
	8.89.	STD	-	-	- 1	5400	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in ρg/g; all others in μg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PERCENT MOISTURE IN EGG

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N	1	,	1		
ISLAND	CRESTED	MEAN			83.6		
	CORMORANT	STD			i		
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	76.8	76.5	76.4	77.5	76.08
	RING-BILLED	N		1	- 1	1	
	GULL	MEAN STD		75.3		76.38	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	76.7	77.1	76.3	76.6	77.12
		STD	400000000000000000000000000000000000000	102sonauk	\$790=\$10.2	-30808	
PIGEON ISLAND	DOUBLE-	N			1	1	
	CRESTED	MEAN			84		
	CORMORANT	STD					
	GREAT BLACK-	N	1	2		1	
	BACKED GULL	MEAN	76.1	76.6		1	
		STD		1.2728		- 1	
	HERRING	N	1	1			
	GULL	MEAN	77	75.5	1	1	
		STD					
LITTLE GALLOO	DOUBLE-	N			1	1	
ISLAND	CRESTED	MEAN	1		83.7		
	CORMORANT	STD			1000000	- 1	
	GREAT BLACK-	N	1	1		- 1	
	BACKED GULL	MEAN	77.3	77.1		1	
		STD	130.00	2.5.5.00		1	
	HERRING	N	1	1		1	
	GULL	MEAN	76.4	75.8		1	
		STD			f		
GULL ISLAND,	GREAT BLACK-		1		1	1	
PRESQU'ILE	BACKED GULL		76.9			1	
PROVINCIAL		STD				- 1	
PARK	HERRING	N	1			- 1	
	GULL	MEAN	76.2		J.	- 1	
		STD		V792			
LESLIE STREET	HERRING	N	11	1	1	1	1
SPIT	GULL	MEAN	76.9	75	76	77.3	76.68
		STD					
HAMILTON	DOUBLE-	N		- 1	1		
HARBOUR	CRESTED	MEAN			84.4	1	
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	76.5	76.6	76.2	76.5	79.06
		STD		V.			
	RING-BILLED	N		2		1	
	GULL	MEAN		75.4		75.8	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PERCENT MOISTURE IN EGG

NIAGARA RIVER			YEAR							
			93	94	95	96	97			
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 76.6	1 75.9	1 76.4	1 76.9	1 76.95			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	76.8		77.1	77.1	76.42
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	76.7	76.2	76.5	76.5	75.84
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED CORMORANT	MEAN STD			83.8		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		76			

DETF	ROIT RIVER				YEAR		
			93	94	95	96	97
COLONY FIGHTING	SPECIES HERRING	N	1	1	1	1	1
ISLAND	GULL	MEAN STD	76.4	77.2	76.5	77.3	77.94
	RING-BILLED	N		11	100	1	
	GULL	MEAN STD				75.8	

LAKE	IURON				YEA	R		TF-1_A
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	75,9	75.78 0.8535	76.4	76.4	76.6	76.34
MAIDEN ISLAND	HERRING	N	_ 1					
	GULL	MEAN STD	75.9					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER	GULL	MEAN		73.6692	76.3	74.4	76.8	75.49
ISLAND		STD		4.6595				
DUCK ISLAND	HERRING	N	1					
	GULL	MEAN STD	7 5.9					
GULL ISLAND	HERRING	N	1					
	GULL	MEAN	76.4					
BOTH STATE OF THE STATE OF		STD						
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED	MEAN				84.6		
	CORMORANT	STD						

All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PERCENT MOISTURE IN EGG

LAKE HUR	ON (CONT.)				YEA	3		
	XD 20		93	93	94	95	96	97
COLONY	SPECIES	Secretary.						
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD		VS.	77.2			
	HERRING	N			1			
	GULL	MEAN STD			77.3			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD		V.	76.7			
GERTRUDE	RING-BILLED	N	1		1			
ISLAND	GULL	MEAN STD			75.5			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	77	76.86 0.8003	76.3	75.4	76.3	76.45
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED	MEAN				84.5		
	CORMORANT	STD						

LAKE M	ICHIGAN		YEAR								
			93	94	94	95	96	97			
COLONY	SPECIES										
GULL ISLAND	HERRING	N	1	1	12	1	1	1			
	GULL	MEAN STD	76.2	76	75.6917 1.2214	76.3	76.2	76.42			
GARY, INDIANA	HERRING	N	1		7,000,000,000						
	GULL	MEAN STD	76.3								
EAST CHICAGO	HERRING	N	1	1		1					
	GULL	MEAN STD	76.4	76.1		76.8					
BIG SISTER	HERRING	N	1	13		1	1	1			
ISLAND	GULL	MEAN STD	76.2	76.2077 0.9962		75.7	75.7	77.31			

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1	- 1	
ISLAND	CRESTED	MEAN		1	84.4		
	CORMORANT	STD			- Servina in		
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	76.6	77.1	76.7	75.3	76.77
		STD			0.7874		
GRANITE	HERRING	N	1	1	13	- 1	1
ISLAND	GULL	MEAN	77.3	75.9	76.3308		73.37
		STD			0.5808	1	
	RING-BILLED	N		·	-	1	
	GULL	MEAN	100		1	76.33	
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN		1		77.9	
		STD			12		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* CIS/ALPHA-CHLORDANE

ST. LAWF	RENCE RIVER	570 1.7%		,	YEAR		94
			93	94	95	96	97
COLONY	SPECIES			42			
STRACHAN	DOUBLE-	N			1	[
ISLAND	CRESTED	MEAN			ND		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	TR
	RING-BILLED	N		1		1	
	GULL	MEAN STD		ND		0.002	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES			1			
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	0.0067	ND	ND	TF
		STD					
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			0.0037		
	CORMORANT	STD					
	GREAT BLACK-	N	1	2			
	BACKED GULL	MEAN	0.0107	0.0134			
		STD		0.0016			
	HERRING	N	1	1	1		
	GULL	MEAN	0.0069	0.0061			
		STD					
LITTLE GALLOO	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0051		
	CORMORANT	STD					
	GREAT BLACK-	N	1	1			
	BACKED GULL	MEAN	0.0237	0.0301			
		STD					
	HERRING	N	1	1			
	GULL	MEAN	0.0123	0.0112			
		STD	2200-0-2000	An attraction a Special confi			
GULL ISLAND,	GREAT BLACK-		1				
PRESQU'ILE	BACKED GULL	MEAN	0.0374				
PROVINCIAL		STD					
PARK	HERRING	N	1				
2	GULL	MEAN	0.007				
		STD					
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	0.0095	0.0082	0.0065	0.003	0.003
		STD					
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN			0.0041		
	CORMORANT	STD		5-743			
	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0113	0.006	0.0074	ND	0.002
		STD					
	RING-BILLED	N		2		1	
	GULL	MEAN		0.0175		0.003	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

NIAGARA RIVER		YEAR						
			93	94	95	96	97	
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 0.0067	1 0.0075	1 0.0052	1 0.0023	0.002	

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES		225		iei		10
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	0.0055		0.0059	ND	0.002
LIGHTHOUSE		STD		1			
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0091	0.0084	0.0135	0.0062	0.003
		STD					
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN		1	0.0033		
	CORMORANT	STD		1			
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN	- 1	0.0085			
TA CTROUCHERS		STD		252000 00000000000000000000000000000000			

DETROIT RIVER			YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN	0.0114	1 0.0056	1 0.0052	1 0.0064	0.002		
	RING-BILLED GULL	STD N MEAN STD	0.0.1.	0.0000	0.0002	1 0.003	0.002		

LAKE H	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0144	0.0112 0.0073	ND	0.007	0.0125	0.002
MAIDEN ISLAND	HERRING	N	1	1		1		
	GULL	MEAN STD	0.0157		-			
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		0.0132 0.0129	0.0092	0.0081	0.0084	0.004
DUCK ISLAND	HERRING	N	o	2018/95/1090/20				
e e	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0	1	1			
	GULL	MEAN STD	(),20					
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED	MEAN				0.0027		
	CORMORANT	STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* CIS/ALPHA-CHLORDANE

LAKE HUR	ON (CONT.)				YEA	2		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	N			1			
ISLAND	BACKED GULL	MEAN STD			0.0566			
	HERRING	N			1			
	GULL	MEAN STD			0.0139			
MOUSE ISLAND	HERRING	N			- 1			
	GULL	MEAN STD		A.	0.0193			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0049			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0075	0.0051	0.0066	0.007	0.0023	0.002
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED CORMORANT	MEAN STD				0.0022		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	0.0215	0.0258	0.0242	0.017	0.0202	0.011
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	0.017					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	0.0204	0.0166		0.0129		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	0.0162	0.0087 0.0082		0.0157	0.0133	0.002

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES	100					
STEAMBOAT	DOUBLE-	N			1	- 1	
ISLAND	CRESTED	MEAN			0.0029		
	CORMORANT	STD	1.0			- 1	
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	ND	0.0049	0.0062	0.0049	0.001
		STD			0.0040		
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	0.0135	0.0124	0.0027		0.002
		STD	-		0.0035		
	RING-BILLED	N				1	
	GULL	MEAN				0.006	
		STD				-70-27-9	
SILVER ISLET	HERRING	N				1	
OIL VEI (TOLE)	GULL	MEAN				ND	
	OOLL	STD				140	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TRANS/GAMMA-CHLORDANE

ST. LAW	RENCE RIVER				YEAR		
				94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N		1	1	4	
ISLAND	CRESTED	MEAN			ND		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	ND
	RING-BILLED	N		1		1	
	GULL	MEAN STD		ND		ND	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES	17					
SNAKE ISLAND	HERRING	N	1	1	1	1	1
A DOOLAND ALL DATE OF THE STANGE	GULL	MEAN	ND	ND	0.0184	ND	ND
		STD	1	1			
PIGEON ISLAND	DOUBLE-	N		10	1		
	CRESTED	MEAN			0.0012		
	CORMORANT	STD				- 1	
	GREAT BLACK-	N	1	2		1	
	BACKED GULL	MEAN	ND	ND			
		STD		100	1		
	HERRING	N	1	1	- 1		
	GULL	MEAN	0.0214	ND			
		STD			1	1	
LITTLE GALLOO	DOUBLE-	N	- 1	- 1	1		
ISLAND	CRESTED	MEAN			ND		
	CORMORANT	STD	1	100			
	GREAT BLACK-	N	1	1			
	BACKED GULL	MEAN	ND	ND	4		
		STD		- 1	- 1	1	
	HERRING	N	1	1	- 1		
	GULL	MEAN	ND	ND	4		
		STD			4	1	
GULL ISLAND,	GREAT BLACK-	200	1				
PRESQU'ILE	BACKED GULL		ND		- 1	1	
PROVINCIAL		STD			1	1	
PARK	HERRING	N	1	- 1	- 1	1	
	GULL	MEAN	ND		100		
		STD		1		1	
LESLIE STREET	HERRING	N	1[1	1	1	1
SPIT	GULL	MEAN	ND	ND	0.0091	ND	ND
		STD	1				
HAMILTON	DOUBLE-	N		ſ	1	1	
HARBOUR	CRESTED	MEAN	1		ND		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD					
	RING-BILLED	N		2		1	
	GULL	MEAN		0.0007	i i	ND	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TRANS/GAMMA-CHLORDANE

NIAGARA RIVER			YEAR						
			93	94	95	96	97		
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	1 NC		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	ND		ND	ND	ND
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD					
EAST SISTER	DOUBLE-	N		- 11	1		
ISLAND	CRESTED	MEAN			ND		
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		ND			
		STD					

DETF	DETROIT RIVER			YEAR							
			93	94	95	96	97				
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	1 NE				
	RING-BILLED GULL	N MEAN STD				ND ND					

LAKE	HURON				YEA	R	S24 No.	
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	-1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	ND
MAIDEN ISLAND	HERRING	N	1					
	GULL	MEAN STD	ND					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		0.0056	ND	ND	ND	ND
DUCK ISLAND	HERRING GULL	N MEAN STD	0					
GULL ISLAND	HERRING GULL	N MEAN STD	0					
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED CORMORANT	MEAN STD				0.0011		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TRANS/GAMMA-CHLORDANE

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N		- 1	1			
ISLAND	BACKED GULL	MEAN STD			0.0048			
	HERRING	N			1			
	GULL	MEAN STD			ND			
MOUSE ISLAND	HERRING	N		1	1			
	GULL	MEAN STD			ND		+	
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	10	1	9	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	ND
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED	MEAN				0.0005		
	CORMORANT	STD						

LAKE M	ICHIGAN				YEA	R	2 :	
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	ND	ND	0.0008	ND	ND	ND
GARY, INDIANA	HERRING	N	1		- 00700703000			
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1	- 1	
	GULL	MEAN STD	ND	ND		ND		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	ND	ND		ND	ND	ND

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0005	10	
	CORMORANT	STD		1			
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD		5000	6,7,5	2000	
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	ND	ND	0.0111	- 1	ND
		STD			0.0064		
	RING-BILLED	N			7.53.000.000	1	
	GULL	MEAN		- 1	1	ND	
		STD			t t	0.00	
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				ND	
	9/23/2000/Eac	STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OXYCHLORDANE

ST. LAW	RENCE RIVER		YEAR							
			93	94	95	96	97			
COLONY	SPECIES	1012								
STRACHAN	DOUBLE-	N			1					
ISLAND	CRESTED	MEAN			0.0173					
	CORMORANT	STD			- 4					
	HERRING	N	1	1	1	1	1			
	GULL	MEAN STD	0.0631	0.065	0.0492	0.0634	0.03			
	RING-BILLED	N		1		1				
	GULL	MEAN STD		0.021		0.015				

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.1198	0.0962	0.069	0.0839	0.052
		STD					
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			0.0433		
	CORMORANT	STD			0		
	GREAT BLACK-	N	1	2			
	BACKED GULL	MEAN	0.1443	0.1294			
		STD		0.0334			
	HERRING	N	1	1		1	
	GULL	MEAN	0.1006	0.1084			
		STD			- 1		
LITTLE GALLOO	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0173		
	CORMORANT	STD			1000		
	GREAT BLACK-	N	1	1			
	BACKED GULL	MEAN	0.1693	0.1662			
		STD					
	HERRING	N	1	1			
	GULL	MEAN	0.1063	0.1559			
		STD					
GULL ISLAND,	GREAT BLACK-	- 1 a y 4 b - 1 - 1 - 1 - 1 - 1 - 1 - 1	1			1	
PRESQU'ILE	BACKED GULL	Section of the sectio	0.3153				
PROVINCIAL		STD					
PARK	HERRING	N	1				
	GULL	MEAN	0.1173				
was and a service software forth	TO CHARLEST AND A STATE OF THE	STD	-	201	2		
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	0.0804	0.0985	0.0649	0.1166	0.043
7 × 0/× 000	Vendere pomoreni	STD					
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN			0.0293		
	CORMORANT	STD		- N		1.0	
	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0713	0.0593	0.0953	0.0859	0.03
	Mary Two Court Plants	STD		534		- 22	
	RING-BILLED	N		2		1	
	GULL	MEAN		0.0397		0.022	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in $\rho g/g$; all others in $\mu g/g$. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OXYCHLORDANE

NIAGARA RIVER			YEAR							
			93	94	95	96	97			
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 0.0573	0.0687	1 0.0455	1 0.0662	0.019			

LAKE	ERIE		YEAR							
			93	94	95	96	97			
COLONY	SPECIES	0.0								
PORT	HERRING	N	1		1	1	1			
COLBORNE	GULL	MEAN	0.0376	- 1	0.0378	0.0538	0.026			
LIGHTHOUSE		STD								
MIDDLE ISLAND	HERRING	N	1	1	1	1	1			
	GULL	MEAN	0.0642	0.0872	0.0672	0.0803	0.039			
		STD				3.00				
EAST SISTER	DOUBLE-	N			1					
ISLAND	CRESTED	MEAN		15	0.0286					
¥	CORMORANT	STD			V. C. S. C. M. C.	- 1				
MIDDLE SISTER	HERRING	N	- 1	1		1				
ISLAND	GULL	MEAN	- 1	0.0892						
	NOTICE AND ADDRESS OF THE PROPERTY OF THE PROP	STD		0.000.000.000						

DETROIT RIVER			YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	1 0.0593	1 0.0548	1 0.0431	1 0.0467	0.03			
	RING-BILLED GULL	N MEAN STD				0.031				

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.1331	0.1481	0.0976	0.0865	0.0904	0.051
MAIDEN ISLAND	HERRING	N	1		- 1			
	GULL	MEAN STD	0.2677					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER	GULL	MEAN		0.1991	0.1514	0.1084	0.109	0.06
ISLAND		STD	1	0.1318				
DUCK ISLAND	HERRING	N	0	2380 SB21000			- 1	
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	O		1	- 1		
	GULL	MEAN	1	- 1	- 1	1		
		STD	1					
WALLIS	DOUBLE-	N		f		1		
ROCKS	CRESTED	MEAN				0.0373		
	CORMORANT	STD				3.00.0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OXYCHLORDANE

LAKE HUR	ON (CONT.)				YEA	₹		
	100 20		93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD			0.3431			
	HERRING	N			1			
	GULL	MEAN STD			0.1361			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			0.1417			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0324			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.1399	0.1142 0.0671	0.1584	0.0887	0.1623	0.059
AFRICA ROCK	DOUBLE-	N		.30000000000000000000000000000000000000		1		
	CRESTED CORMORANT	MEAN STD				0.0303		

LAKE M	ICHIGAN		YEAR							
			93	94	94	95	96	97		
COLONY GULL ISLAND	SPECIES HERRING	N	1	4	12	31	4			
GOLL IOLAND	GULL	MEAN STD	0.5553	0.436	0.4063 0.2985	0.188	0.2731	0.333		
GARY, INDIANA	HERRING	Ν.	1							
	GULL	MEAN STD	0.4467							
EAST CHICAGO	HERRING	N	1	1		1				
	GULL	MEAN STD	0.2674	0.2503		0.2363				
BIG SISTER	HERRING	N	1	13		1	1	1		
ISLAND	GULL	MEAN STD	0.3261	0.3084 0.1745		0.2854	0.221	0.219		

LAKE S	UPERIOR				YEAR	45	
			93	94	95	96	97
COLONY	SPECIES						100
STEAMBOAT	DOUBLE-	N			1		0.745
ISLAND	CRESTED	MEAN			0.039	15	
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	
NO. TO	GULL	MEAN	0.1294	0.1259	0.1392	0.1931	0.061
		STD	184834070633	2.00.402-1937-2047-	0.1021		
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	0.2037	0.1914	0.1375		0.104
N. Charles		STD			0.0845		
	RING-BILLED	N			0/2546869/4000	1	
	GULL	MEAN				0.059	
Control of the Contro		STD		85			
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				0.11	
Ser. Francisco		STD				988888	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234-CHLOROBENZENE

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N		1	1		
ISLAND	CRESTED	MEAN			ND	- 1	
	CORMORANT	STD		- 1	1204.00		
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	TR
	RING-BILLED	N		1		1	
	GULL	MEAN STD		ND		TR	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
5	GULL	MEAN	ND	ND	ND	ND	TR
		STD			33233		
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			ND		
	CORMORANT	STD				1:	
	GREAT BLACK-	The state of the s	1	2			
	BACKED GULL	MEAN	ND	ND		- 1	
		STD			1		
	HERRING	N	1	1		1	
	GULL	MEAN	ND	ND	1	- 1	
		STD	1			1	
LITTLE GALLOO		N		- 1	1		
ISLAND	CRESTED	MEAN	1		ND		
	CORMORANT	STD				- 1	
	GREAT BLACK-	5355	1	1			
	BACKED GULL	1.9(2000) (1.1) (1.0) (1.1)	ND	ND	1		
		STD			1		
	HERRING	N	1	1		1	
	GULL	MEAN	ND	ND	1	- 1	
51 35 000		STD	4		- 1	- 1	
GULL ISLAND,	GREAT BLACK-	7157 October 1971 - 1971	1	- 1	4	- 1	
PRESQU'ILE	BACKED GULL		ND		- 1	1	
PROVINCIAL		STD		1	1	1	
PARK	HERRING	N	.1		- 11	4	
	GULL	MEAN	ND			1	
LEGUE OTDEET	UEBBING	STD					19
LESLIE STREET		N	1	1	1	1	_1
SPIT	GULL	MEAN	ND	ND	ND	ND	TR
LIANU TON	DOUBLE	STD		1			
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN	- 1		ND		
	CORMORANT	STD	- 1				
	HERRING	N	1	1	1	1	1
	GULL '	MEAN	ND	ND	ND	ND	TR
	DINO DILLED	STD	1		Į.		
	RING-BILLED	N		1		1	
	GULL	MEAN		0.0013		ND	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234-CHLOROBENZENE

NIAGAR		YEAR							
			93	94	95	96	97		
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	1 TR		

ERIE				YEAR		
		93	94	95	96	97
SPECIES	34					
HERRING	N	1		1	1	1
GULL	MEAN	ND		ND	ND	TR
	STD		- 4	200		
HERRING	N	1	1	1	1	1
GULL	MEAN	ND	ND	ND	ND	TR
	20 May 2 May	33.57	7.46			
DOUBLE-	N		1	1		
	MEAN			ND		
	Contraction of					
	1000		1			
To program the second	1872		ND	- 4		
OULL	STD		140			
	SPECIES HERRING GULL	SPECIES HERRING N GULL MEAN STD HERRING N GULL MEAN STD DOUBLE- N CRESTED MEAN CORMORANT STD HERRING N GULL MEAN	SPECIES HERRING N 1 GULL MEAN ND STD HERRING N 1 GULL MEAN ND STD DOUBLE- N CRESTED MEAN CORMORANT STD HERRING N GULL MEAN	93 94	93 94 95	93 94 95 96

DETE	ROIT RIVER				YEAR		
			93	94	95	96	97
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN	1 ND	1 ND	1 ND	1 ND 1 0.001	1 TR
	GOLL	STD				0.001	

LAKE H	HURON				YEAR	7		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	TR
MAIDEN ISLAND	HERRING	N	1					
	GULL	MEAN STD	ND					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		0.0042	ND	ND	0.0967	0.013
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0					
	GULL	MEAN STD						
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED CORMORANT	MEAN STD				ND		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234-CHLOROBENZENE

LAKE HUR	ON (CONT.)				YEA	3		
			93	93	94	95	96	97
COLONY	SPECIES							W
HALFMOON	GREAT BLACK	- N			1	1		
ISLAND	BACKED GULL	MEAN STD			ND			
	HERRING	N			1			
	GULL	MEAN STD	l.		ND			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			ND	1		
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	TR
AFRICA ROCK	DOUBLE-	N		1		1		
	CRESTED CORMORANT	MEAN STD				ND		

LAKE M	ICHIGAN		YEAR							
			93	94	94	95	96	97		
COLONY GULL ISLAND	SPECIES HERRING	N	1	1	12	1	1	1		
	GULL	MEAN STD	ND	ND	ND	ND	ND	TR		
GARY, INDIANA	HERRING	N	1							
	GULL	MEAN STD	ND							
EAST CHICAGO	HERRING	N	1	1	1	1				
	GULL	MEAN STD	ND	ND	1	ND				
BIG SISTER	HERRING	N	1	13		1	1	1		
ISLAND	GULL	MEAN STD	ND	ND		ND	ND	ND		

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			ND		
Control of the Contro	CORMORANT	STD	100				
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	ND	0.006	ND	ND	TR
		STD					
GRANITE	HERRING	N	1	1	13	9	1
ISLAND	GULL	MEAN	ND	ND	ND		TR
		STD			1		
	RING-BILLED	N				1	
	GULL	MEAN	1			TR	
	SAME THE SECOND	STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				ND	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1245-CHLOROBENZENE

ST. LAWF	RENCE RIVER				YEAR		
				94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			ND		
	CORMORANT	STD	100	5	33		
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	TF
	RING-BILLED	N		1		1	
	GULL	MEAN STD		ND		0.003	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES			0.046			
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	TF
		STD	0.000	125	**	10.302	
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			ND		
	CORMORANT	STD					
	GREAT BLACK-	N	1	2			
	BACKED GULL	MEAN	ND	ND			
		STD	4.5				
	HERRING	N	1	- 1			
	GULL	MEAN	ND	ND			
		STD	111				
LITTLE GALLOO	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			ND		
tanan teta	CORMORANT	STD	140		200.00		
	GREAT BLACK-		1	1			
	BACKED GULL	MEAN	ND	ND			
	100	STD					
	HERRING	N	1	1			
	GULL	MEAN	ND	ND			
		STD	100				
GULL ISLAND,	GREAT BLACK-	8.00 S. 10 S	1		- 1		
PRESQU'ILE	BACKED GULL	MEAN	ND				
PROVINCIAL	2012/02/2012/02	STD	2.42				
PARK	HERRING	N	1				
	GULL	MEAN	ND				
		STD	A.3.194		141		
LESLIE STREET	HERRING	N	1	1	1	- 1	1
SPIT	GULL	MEAN	ND	ND	ND	ND	TR
	WY GO.	STD	200	1,000	7.4	- 222	
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN			ND		
e a normality a montant particular de	CORMORANT	STD			20250		
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	TF
	(7)397(Te)	STD			JAK S		4.0
	RING-BILLED	N		2		1	
	GULL	MEAN		0.004		ND	
	or to take	STD		0.001		.,,5	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1245-CHLOROBENZENE

NIAGARA RIVER			YEAR							
			93	94	95	96	97			
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	1 TR			

LAKE	ERIE			,	/EAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1	- 1	1	1	1
COLBORNE	GULL	MEAN	ND		ND	ND	0.001
LIGHTHOUSE		STD	1				
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	TR
		STD		000	0.00	455	27/25/
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN	1	1	ND	1	
DOTATE(02)/2400	CORMORANT	STD			3.1-0		
MIDDLE SISTER	HERRING	N		1	1		
ISLAND	GULL	MEAN		ND			
		STD		.,,,,			

DETR	DETROIT RIVER			YEAR						
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	1 TR			
	RING-BILLED GULL	N MEAN STD				0.002				

LAKE H	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	TR
MAIDEN ISLAND	HERRING	N	1		1		1	
	GULL	MEAN STD	ND					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		ND	ND	ND	0.0427	0.002
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0			1		
	GULL	MEAN STD						
WALLIS	DOUBLE-	N	- 1		J	1		
ROCKS	CRESTED	MEAN				ND		
	CORMORANT	STD				10.00		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1245-CHLOROBENZENE

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD			ND			
	HERRING	N			1			
	GULL	MEAN STD			ND			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			ND			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	TR
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED CORMORANT	MEAN STD				ND		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY GULL ISLAND	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	12 ND	1 ND	1 ND	1 TR
GARY, INDIANA	HERRING GULL	N MEAN STD	ND ND					
EAST CHICAGO	HERRING GULL	N MEAN STD	ND	ND		ND		
BIG SISTER ISLAND	HERRING GULL	N MEAN STD	1 ND	13 ND		1 ND	ND ND	1 TR

LAKE S	UPERIOR		11106	1	EAR		
			93	94	95	96	97
COLONY	SPECIES	100					
STEAMBOAT	DOUBLE-	N	- 1	- 16	1		
ISLAND	CRESTED	MEAN			ND		
	CORMORANT	STD			88.0	- 1	
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	ND	0.0501	ND	ND	TR
		STD	3,000		CHAPTE.	10000	
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	ND	ND	ND		TR
1000		STD					
	RING-BILLED	N				1	
	GULL	MEAN				TR	
	137,0,000	STD				3.434	
SILVER ISLET	HERRING	N				1	
OILVER TOLL	GULL	MEAN				ND	
	GOLL	STD				NO	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in ρg/g; all others in μg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PENTACHLOROBENZENE

ST. LAW	RENCE RIVER				YEAR		
				94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0068		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	0.001
	RING-BILLED	N		1		1	
	GULL	MEAN STD		ND		0.003	

LAKE O	NTARIO			.,.	YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	0.003
		STD					
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN	- 1		ND	1	
	CORMORANT	STD					
	GREAT BLACK-		1	2			
	BACKED GULL	0.000.000000000000000000000000000000000	ND	ND		1	
		STD				1	
	HERRING	N	1	1		1	
	GULL	MEAN	ND	ND		- 1	
		STD					
LITTLE GALLOO	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			ND	- 1	
	CORMORANT	STD				- 1	
	GREAT BLACK-	100000000000000000000000000000000000000	1	. 1	1		
	BACKED GULL	MEAN	0.015	ND			
	HEDDING	STD	- 1	4			
	HERRING GULL	N	1 ND	1 ND	- 1	1	
	GULL	MEAN	ND	ND			
GULL ISLAND,	GREAT BLACK-	100 CO	1		1		
PRESQU'ILE	BACKED GULL		ND				
PROVINCIAL	BACKED GOLL	STD	ND			1	
PARK	HERRING	N	1			1	
	GULL	MEAN	ND		J	1	
		STD					
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	ND	ND	ND	ND	0.001
		STD	- 15		(0,5)7:2	10.000	on contract
HAMILTON	DOUBLE-	N	1		1		
HARBOUR	CRESTED	MEAN			ND		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	0.002
		STD			177		
	RING-BILLED	N		2		1	
	GULL	MEAN		0.0053		TR	
		STD		320000000000		3.50	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PENTACHLOROBENZENE

NIAGARA RIVER			YEAR						
			93 94 95 96						
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	1 TR		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES	CONTROL OF	100				
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	ND		ND	ND	0.001
LIGHTHOUSE		STD	-				
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	0.002
		STD	100	200	ABITATE -		*
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			ND		
	CORMORANT	STD	1				
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		ND	- 1		
		STD		000,00	14.		

DETR	DETROIT RIVER			YEAR						
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	0.002			
	RING-BILLED GULL	N MEAN STD				0.002				

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	0.001
MAIDEN ISLAND	HERRING	N	1	1	116		1	
	GULL	MEAN STD	ND					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		ND	ND	ND	0.0242	0.007
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN STD	19					
GULL ISLAND	HERRING	N	0				- 1	
	GULL	MEAN						
Lade -		STD						
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED	MEAN				0.0284		
0.0000000000000000000000000000000000000	CORMORANT	STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PENTACHLOROBENZENE

LAKE HUR	ON (CONT.)				YEAR	₹		
	63 172		93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N		f	1	- 1		
ISLAND	BACKED GULL	MEAN STD			ND			
	HERRING	N			1			
	GULL	MEAN STD		7	ND			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			ND			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0027			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	TR
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED	MEAN				ND		
	CORMORANT	STD						

LAKE M	ICHIGAN				YEAR	₹		
			93	94	94	95	96	97
COLONY	SPECIES	3====						
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	ND	0.002
GARY, INDIANA	HERRING	N	1		į.			
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	ND	ND		ND		
BIG SISTER	HERRING	N	1	13	1	1	1	1
ISLAND	GULL	MEAN STD	0.0195	ND		ND	ND	0.001

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES		2113.30				
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0039		
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	ND	ND	ND	ND	0.001
		STD				1	
GRANITE	HERRING	N	1	1	13	1	1
ISLAND	GULL	MEAN	ND	ND	0.0068		0.001
		STD	2000	100,750,20	0.0144		
	RING-BILLED	N	1		2000 F 100	1	
	GULL	MEAN				0.002	
		STD	1				
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				ND	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* HEXACHLOROBENZENE

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY STRACHAN ISLAND	SPECIES DOUBLE- CRESTED CORMORANT	N MEAN STD			0.0109		
	HERRING GULL	N MEAN STD	0.0285	0.0303	0.0112	1 0.0286	0.017
	RING-BILLED GULL	N MEAN STD		0.0082		0.006	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0494	0.0522	0.0217	0.0334	0.02
		STD					
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			0.0091		
	CORMORANT	STD					
	GREAT BLACK-	N	1	2			
	BACKED GULL	MEAN	0.0812	0.0469			
		STD		0.0013			
	HERRING	N	1	1			
	GULL	MEAN	0.0475	0.0571			
		STD					
LITTLE GALLOO		N			1		
ISLAND	CRESTED	MEAN			0.0112		
	CORMORANT	STD					
	GREAT BLACK-	N	1	1			
	BACKED GULL		0.1192	0.0869			
		STD					
	HERRING	N	1	1			
	GULL	MEAN	0.0418	0.0567			
		STD					
GULL ISLAND,	GREAT BLACK-		1				
PRESQU'ILE	BACKED GULL	MEAN	0.1064				
PROVINCIAL	10100000000000000000000000000000000000	STD					
PARK	HERRING	N	1				
	GULL	MEAN	0.0473				
		STD					
LESLIE STREET	HERRING	N	1	2 22	1	1	1
SPIT	GULL	MEAN	0.0222	0.031	0.0181	0.0409	0.01
CANN TON	DOLUBI E	STD					
HAMILTON	DOUBLE-	N			20121		
HARBOUR	CRESTED	MEAN			0.0161		
	CORMORANT	STD	4				
	HERRING	N	0.0070	0.004	0.0040	2 2024	0.000
	GULL	MEAN	0.0272	0.031	0.0249	0.0321	0.009
	RING-BILLED	N		2		1	
	GULL GULL	MEAN		0.0265		0.006	
	GOLL	STD		0.0203		0.000	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* HEXACHLOROBENZENE

NIAGAR	YEAR							
		1	93	94	95	96	97	
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0.0369	1 0.0356	1 0.0253	0.0302	0.006	

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1	1	1	1	1
COLBORNE	GULL	MEAN	0.0191		0.023	0.0217	0.007
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0209	0.0308	0.0278	0.0294	0.011
		STD	1	1			
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0182	1	
	CORMORANT	STD			100000000000000000000000000000000000000		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		0.0372	1		
		STD					

DETR	DETROIT RIVER			YEAR								
			93	94	95	96	97					
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED	N MEAN STD N	1 0.0219	1 0.0248	1 0.0218	0.0213	0.007					
	GULL GULL	MEAN STD				0.006						

LAKE	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0252	0.0245	0.0268	0.0296	0.107	0.012
MAIDEN ISLAND	HERRING	N	1			4		
	GULL	MEAN STD	0.0398					
CHANNEL	HERRING	N	1	13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		0.0271	0.0414	0.0283	0.0495	0.023
DUCK ISLAND	HERRING GULL	N MEAN STD	0					
GULL ISLAND	HERRING GULL	N MEAN STD	0					
WALLIS	DOUBLE-	N	1			1		
ROCKS	CRESTED CORMORANT	MEAN STD				0.014		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* HEXACHLOROBENZENE

LAKE HUR	ON (CONT.)				YEA	2	- 1	
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N			1			
ISLAND	BACKED GULL	MEAN STD			0.0695			
	HERRING	N			1			
	GULL	MEAN STD			0.0292			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			0.0349			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0077			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0337	0.0397	0.034	0.0226	0.0474	0.02
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED CORMORANT	MEAN STD				0.013		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							- 1
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	0.0702	0.0524	0.0580	0.0259	0.0398	0.029
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	0.0293					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	0.0247	0.0222		0.0248		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	0.0435	0.0326 0.0105		0.0301	0.0341	0.017

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0116		
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	- 1
	GULL	MEAN	0.0201	0.0236	0.0258	0.04	0.013
		STD			0.0137		
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	0.0402	0.0444	0.0223		0.012
100		STD			0.0074		
	RING-BILLED	N			200	- 1	
	GULL	MEAN				0.017	
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				0.0252	
	other sections	STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* DDD

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N		- 1	1		
ISLAND	CRESTED	MEAN	- 4		0.0012		
	CORMORANT	STD			1.00		
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	0.002
	RING-BILLED	N		1		1	
	GULL	MEAN STD		ND		TR	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	0.002
		STD					
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			0.0025		
	CORMORANT	STD		- 4			
	GREAT BLACK-	N	1	2			
	BACKED GULL	MEAN	ND	0.0042			
		STD		0.0055			
	HERRING	N	1	1			
	GULL	MEAN	ND	0.0069			
		STD					
LITTLE GALLOO	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.007		
	CORMORANT	STD	1				
	GREAT BLACK-		1	1			
	BACKED GULL		ND	0.0166			
	Walker William	STD		30		1	
	HERRING	N	1	1			
	GULL	MEAN	0.0138	0.0101		1	
CULL ICLAND	CDEATOLACK	STD	4				
GULL ISLAND,	GREAT BLACK-		ND ND		4		
PRESQU'ILE PROVINCIAL	BACKED GULL	STD	NU		1		
PARK	HERRING	N	1		19		
FARN	GULL	MEAN	ND				
	GOLL	STD	140				
LESLIE STREET	HERRING	N	1	1	1	-1	1
SPIT	GULL	MEAN	0.0068	0.0082	ND	ND	0.002
01 11	OULL	STD	0.0000	0.0002	140	140	0.002
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN	1		0.0094		
TARBOOK	CORMORANT	STD			0.0004		
	HERRING	N	1	- 1	1	1	1
	GULL	MEAN	0.0078	0.0082	ND	ND	0.003
	OULL	STD	0.0010	3,0002	1,0	140	0.000
	RING-BILLED	N		2		4	
	GULL	MEAN		ND	T IV	TR	
	COLL	STD	4.0	110		1.13	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED*

NIAGAR	YEAR							
			93	94	95	96	97	
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 0.0073	1 ND	1 ND	1 ND	0.002	

LAKE	ERIE		37		YEAR		
			93	94	95	96	97
COLONY	SPECIES	-					
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	ND		ND	ND	0.002
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0081	0.01	0.0095	0.0093	0.004
		STD					
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0063		
	CORMORANT	STD		0.0	200700		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		0.0175			
		STD					

DETROIT RIVER			YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN	1 0.0257	0.0133	1 ND	1 0.011 1 TR	0.005			

LAKE	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES						7	
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	0.001
MAIDEN ISLAND	HERRING	N	1					
	GULL	MEAN STD	ND					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		0.058	0.0283	0.0223	0.026	0.018
DUCK ISLAND	HERRING	N	o					
	GULL	MEAN STD	- 11					
GULL ISLAND	HERRING	N	0					
	GULL	MEAN				1		
Decision in the second		STD						
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED	MEAN				0.003		
	CORMORANT	STD				7		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in $\rho g/g$; all others in $\mu g/g$. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* DDD

LAKE HUR	ON (CONT.)	30-11-11			YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			1	- 1	1	
ISLAND	BACKED GULL	MEAN STD			ND			
	HERRING	N			1			
	GULL	MEAN STD			ND			
MOUSE ISLAND	HERRING	N			1		1	
	GULL	MEAN STD			ND			
GERTRUDE	RING-BILLED	N			1		1	
ISLAND	GULL	MEAN STD	r:		ND			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	0.001
AFRICA ROCK	DOUBLE-	N		1		1		
	CRESTED CORMORANT	MEAN STD				0.0019		

LAKE M	CHIGAN		YEAR							
			93	94	94	95	96	97		
COLONY	SPECIES									
GULL ISLAND	HERRING	N	1	1	12	1	1	1		
	GULL	MEAN STD	0.0081	0.0126	0.0077	ND	0.0082	0.004		
GARY, INDIANA	HERRING	N	1		0.545,154,055,0		1			
	GULL	MEAN STD	0.0097							
EAST CHICAGO	HERRING	N	1	1		1	1			
	GULL	MEAN STD	0.014	0.0142		ND				
BIG SISTER	HERRING	N	1	13		1	1	1		
ISLAND	GULL	MEAN STD	0.0083	0.0011 0.0026		0.0073	ND	0.003		

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N		1	1		
ISLAND	CRESTED	MEAN		1	0.0049		
	CORMORANT	STD		- 1		1	
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	ND	ND	0.0074	ND	TR
		STD	1005400	5367	0.0213	1.00	
GRANITE	HERRING	N	1.	1	13		1
ISLAND	GULL	MEAN	ND	ND	ND		TR
		STD					
	RING-BILLED	N				1	
	GULL	MEAN				TR	
		STD					
SILVER ISLET	HERRING	N				1	
Control of the Color All Color Colored Colored Color	GULL	MEAN				ND	
		STD				\$1,697	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* DDE

ST. LAWF	RENCE RIVER				YEAR	r.	
				94	95	96	97
COLONY STRACHAN ISLAND	SPECIES DOUBLE- CRESTED CORMORANT HERRING GULL	N MEAN STD N MEAN	93 1 3.004	1 2.7792	1 1.625 1 1.9829	1 2.4391	1 1.697
	RING-BILLED GULL	STD N MEAN STD		0.3681		1 0.545	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	6.6153	4.0099	2.5882	2.623	2.818
		STD					
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			2.3272		
	CORMORANT	STD					
	GREAT BLACK-		1	2	12		
	BACKED GULL		10.2415	8.5447			
		STD		0.3297			
	HERRING	N	1	1			
	GULL	MEAN STD	5.5359	5.8549	8		
LITTLE GALLOO	DOUBLE-	N			1	1	
ISLAND	CRESTED	MEAN			1.5737		
	CORMORANT	STD					
	GREAT BLACK-	N	1	1			
2	BACKED GULL	MEAN STD	14.1681	14.8794			
	HERRING	N	1	1			
	GULL	MEAN	6.3295	6.9729			
		STD				1	
GULL ISLAND,	GREAT BLACK-	N	1			- 6	
PRESQU'ILE	BACKED GULL	MEAN	21.1277				
PROVINCIAL		STD					
PARK	HERRING	N	1				
	GULL	MEAN	6.6442				
	10050000000000000000000000000000000000	STD		5950	020	0.00	
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	3.9155	3.6433	1.8565	3.433	1.952
		STD			160		
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN			3.2938		
	CORMORANT	STD					
79	HERRING	N	1 0007	0.004	1 0446	1	1
F. 10 .	GULL	MEAN STD	4.0937	2,961	1.8441	2.8782	1.73
	RING-BILLED	N		2		1	
	GULL	MEAN STD		1.6879		0.608	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* DDE

NIAGARA RIVER			YEAR						
			93 94 95 96						
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 1.6678	1 1.8086	1 1.161	1 1.51	1 0.796		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES				1 1		
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	0.9774		0.8794	1.1507	0.639
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	1.9952	2.181	1.9692	1.3458	0.847
		STD					
EAST SISTER	DOUBLE-	N	1.		1		
ISLAND	CRESTED	MEAN			2.4032	1	
	CORMORANT	STD		6	1	1	
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		2.752			
		STD					

DETROIT RIVER			YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD	1 2.1415	1.6839	1 1.5336	1 1.1585 1 0.515	1 0.959			

LAKE I	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	2.4844	2.674 2.6893	1.2663	1.572	1.3491	1.176
MAIDEN ISLAND	HERRING	N	1			1		
	GULL	MEAN STD	5.8624					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	ak:	14.8343 11.1302	7.7752	4.2271	4.3498	3.495
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0			1	1	
	GULL	MEAN STD			1			
WALLIS	DOUBLE-	N	Ĭ	1		1		
ROCKS	CRESTED CORMORANT	MEAN STD				2.8034		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* DDE

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N			1		- 1	
ISLAND	BACKED GULL	MEAN STD			9.9971			
	HERRING	N			1			
	GULL	MEAN STD			2.8123			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			2.5134			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.4965	0		
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	3.7473	3.6693 2.5063	3.0951	1.6301	2.6556	1.343
AFRICA ROCK	DOUBLE-	N				1		
THE STATE OF THE S	CRESTED CORMORANT	MEAN STD				2.2593		457

LAKE M	CHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES				40			
GULL ISLAND	HERRING GULL	N MEAN STD	11.0349	11.9428	12 12.2373 7.4297	4.8426	6.0995	9.127
GARY, INDIANA	HERRING GULL	N MEAN STD	10.937				10	
EAST CHICAGO	HERRING GULL	N MEAN STD	7.4503	1 6.3078		6.1193		4
BIG SISTER ISLAND	HERRING GULL	N MEAN STD	8.0899	13 6.3748 2.1244		7.9167	1 3.9456	5.673

LAKE S	UPERIOR		195		YEAR	- IV	-
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			2.8321		
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	1
SER I I	GULL	MEAN	2.9685	1.7711	2.2858	2.8833	1.298
		STD	0.0000000000000000000000000000000000000	CHORESON 30 WO	1.481	147204071510	
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	5.1978	3.0133	2.6793		2.366
		STD		STATE OF THE STATE OF	1.2498		
a Tu	RING-BILLED	N			1999ALACE 1982	1	
	GULL	MEAN				1.362	
		STD					
SILVER ISLET	HERRING	N				1	
OIL TELL TOLL	GULL	MEAN				2.6947	
	COLL	STD				2.0041	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in $\rho g/g$; all others in $\mu g/g$. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

ST. LAW	RENCE RIVER						
			93	94	95	96	97
COLONY	SPECIES	Acces 1			25		
STRACHAN	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN		ľ	0.0086		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	0.0189	0.0139	0.0089	0.0087	0.004
	RING-BILLED	N		1		1	
	GULL	MEAN STD		0.0065		0.002	

LAKE O	NTARIO		267.44	01775 St 000 - 55	YEAR	21.22	
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0533	0.0295	0.0139	0.0087	0.007
		STD	!				
PIGEON ISLAND		N			1		
	CRESTED	MEAN			0.0117	1	
	CORMORANT	STD					
	GREAT BLACK-	22000	1	2		- 1	
	BACKED GULL		0.0208	0.0165			
	LIEDDING	STD		0.0103			
	HERRING	N	0.0400	0.0224			
	GULL	MEAN	0.0433	0.0224		- 1	
LITTLE GALLOO	DOUBLE-	STD			4	- 1	
ISLAND	CRESTED	MEAN			0.0103	1	
ISLAND	CORMORANT	STD			0.0103		
	GREAT BLACK-	3.0731	- 1	1			
	BACKED GULL	-077076 Laurence	0.0274	0.0242	1	ſ	
	D/ IONED COLL	STD	0.027	0.0212			
	HERRING	N	1	1			
	GULL	MEAN	0.0465	0.0301			
		STD		1200,000 700000			
GULL ISLAND,	GREAT BLACK-	N	1			ľ	
PRESQU'ILE	BACKED GULL		0.0572	10			
PROVINCIAL		STD		- 1			
PARK	HERRING	N	1				
	GULL	MEAN	0.0584				
		STD	1020				202
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	0.0244	0.0144	0.0156	0.0116	0.004
LIANU TON	BOUR! E	STD					
HAMILTON	DOUBLE-	N	1		0.0047	ľ	
HARBOUR	CRESTED	MEAN		1	0.0217		
	CORMORANT	STD		- 4			
	HERRING	N	0.0000	0.04.4	0.0000	0.0050	0.000
	GULL	MEAN	0.0286	0.0144	0.0388	0.0056	0.006
	DINC BILLED	STD		2			
	RING-BILLED	N		0.0442		0.007	
	GULL	MEAN STD		0.0113		0.007	
		SID					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* DDT

NIAGARA RIVER							
		93	94	95	96	97	
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	1 0.0105	0.0083	0.0088	0.002

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES HERRING	N	4		4	4	
COLBORNE LIGHTHOUSE	GULL	MEAN STD	0.0139		0.0142	0.0083	0.002
MIDDLE ISLAND	HERRING GULL	N MEAN STD	0.0082	0.0087	0.0180	ND	0.002
EAST SISTER ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0.0172		
MIDDLE SISTER ISLAND	HERRING GULL	N MEAN STD		0.0096			

DETROIT RIVER			YEAR							
		93	94	95	96	97				
SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN	0.0102	0.0075	1 0.0238	1 ND 1 0.003	1 TR				
-	SPECIES HERRING GULL RING-BILLED	SPECIES HERRING N GULL MEAN STD RING-BILLED N	SPECIES HERRING N 1 GULL MEAN 0.0102 STD RING-BILLED N GULL MEAN	93 94 SPECIES HERRING N 1 1 GULL MEAN 0.0102 0.0075 STD RING-BILLED N GULL MEAN	93 94 95 SPECIES HERRING N 1 1 1 1 GULL MEAN 0.0102 0.0075 0.0238 STD RING-BILLED N GULL MEAN	93 94 95 96 SPECIES HERRING N 1 1 1 1 1 GULL MEAN 0.0102 0.0075 0.0238 ND STD RING-BILLED N 1 GULL MEAN 0.003				

LAKE	IURON				YEAR			
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0242	0.0098	0.0193	0.0328	0.0471	0.008
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0.0205					
CHANNEL	HERRING	N		13	1	1	- 1	1
SHELTER ISLAND	GULL	MEAN STD		ND	0.0213	0.0331	0.022	0.01
DUCK ISLAND	HERRING GULL	N MEAN STD	0					
GULL ISLAND	HERRING GULL	N MEAN STD	0					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0.0189		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* DDT

LAKE HUR	ON (CONT.)				YEAR			
	COLUMN POR DESTRUCTION (COLUMN PORTOR)		93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N			1			
ISLAND	BACKED GULL	MEAN STD			0.0731			
	HERRING	N			1	4		
17	GULL	MEAN STD			0.0354			
MOUSE ISLAND	HERRING	N			1	- 1		
	GULL	MEAN STD			0.0347			
GERTRUDE	RING-BILLED	N			1		1	
ISLAND	GULL	MEAN STD			0.0067			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0162	0.0043	0.0475	0.0374	0.0344	0.009
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED CORMORANT	MEAN STD				0.0131		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN	0.0492	0.0947	0.0694	0.0462	0.0669	0.022
		STD	9.042.53494.53	5.00,000	0.0425		7.54.000.000	
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN	0.0383			- 1		
		STD				- 1		
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN	0.0354	0.0541		0.0414		
		STD						
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN	0.0618	0.0385		0.0681	0.0439	0.015
		STD		0.018				

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0169	1	
	CORMORANT	STD				1	
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	0.0097	0.0335	0.0431	0.0449	0.005
		STD	NO.ADADADATINON		0.0349	noversection-squ	
GRANITE	HERRING	N	1	1	13	1	1
ISLAND	GULL	MEAN	0.018	0.07	0.029		0.006
		STD	23		0.0139		
	RING-BILLED	N			WATER PROCESS	1	
	GULL	MEAN			- 1	TR	
		STD		-		C==00	
SILVER ISLET	HERRING	N				1	
Control of the Contro	GULL	MEAN				0.034	
	Marchiteman	STD				81900 M C C L L L L	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* DIELDRIN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0249		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	0.0683	0.066	0.0348	0.0799	0.049
	RING-BILLED	N		1		1	
	GULL	MEAN STD		0.0534		0.122	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES				- 1		-10
SNAKE ISLAND	HERRING	N	- 1	1	1	1	1
	GULL	MEAN	0.1702	0.1547	0.0501	0.0911	0.066
		STD	1.0		100	12.12	
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			0.0505		
	CORMORANT	STD					
	GREAT BLACK-	N	1	2			
	BACKED GULL	MEAN	0.1736	0.1185	1		
		STD		0.0252			
	HERRING	N	1	1			
	GULL	MEAN	0.1283	0.1074		1	
		STD	43887792,0200				
LITTLE GALLOO	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0266		
	CORMORANT	STD	- 1		341		
	GREAT BLACK-	N	1	1			
	BACKED GULL		0.3869	0.3003			
		STD		6,000,000			
	HERRING	N	1	1			
	GULL	MEAN	0.1701	0.1947			
		STD					
GULL ISLAND,	GREAT BLACK-	N	1				
PRESQU'ILE	BACKED GULL	MEAN	0.3368				
PROVINCIAL		STD					
PARK	HERRING	N	1				
	GULL	MEAN	0.1401				
		STD				24.0	
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	0.0921	0.096	0.0532	0.1066	0.04
		STD	-				
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN			0.0741		
	CORMORANT	STD		3.4	2.2		
	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.1062	0.0504	0.0853	0.0501	0.025
		STD					
	RING-BILLED	N		2		1	
	GULL	MEAN		0.2353		0.081	
		STD		-0.0-0.0000000			

All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in μg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* DIELDRIN

NIAGARA RIVER			YEAR							
			93	94	95	96	97			
COLONY NIAGARA RIVER	SPECIES	N	1	1	1	1	1			
NIAGARA RIVER	GULL	MEAN STD	0.1127	0.063	0.0527	0.0598	0.02			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	0.0909		0.0597	0.0539	0.047
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	0.1027	0.0847	0.098	0.074	0.049
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED CORMORANT	MEAN STD			0.0816		
MIDDLE SISTER	HERRING	N		1	4		
ISLAND	GULL	MEAN STD		0.0871			

DETR	OIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING	SPECIES HERRING	N	1	1	1	1	1			
ISLAND	GULL	MEAN STD	0.0808	0.0504	0.0275	0.0504	0.046			
	RING-BILLED	N			1	1				
	GULL	MEAN STD				0.11				

LAKE	HURON				YEA	R		
V			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.236	0.229	0.0903	0.1129	0.1328	0.072
MAIDEN ISLAND	HERRING	N	1			4	1	
	GULL	MEAN STD	0.3378	1				
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		0.1882	0.079	0.0641	0.0944	0.051
DUCK ISLAND	HERRING GULL	N MEAN STD	0		1			
GULL ISLAND	HERRING GULL	N MEAN STD	0	25				
WALLIS	DOUBLE-	N			1	1		
ROCKS	CRESTED CORMORANT	MEAN STD				0.0644		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* DIELDRIN

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD			0.7061			
	HERRING	N			- 1	1		
	GULL	MEAN STD			0.1473			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			0.1451			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.1657			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.2006	0.1462 0.0608	0.1793	0.0779	0.1309	0.056
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED CORMORANT	MEAN STD				0.0662		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES	100						
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	0.3922	0.4853	0.4221	0.1396	0.2117	0.227
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	0.2454					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	0.144	0.1134		0.1124		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	0.2539	0.3167 0.2537		0.2486	0.1543	0.133

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN	8		0.0939		
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	0.1415	0.1307	0.1178	0.1534	0.06
		STD			0.0756		
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	0.2368	0.1775	0.0939		0.081
		STD	A 0.42800-	3 32 3	0.0509		
	RING-BILLED	N				1	
	GULL	MEAN			- 1	0.314	
		STD				0.490.62090.067	
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				0.0972	
		STD				5.5572	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* HEPTACHLOR EPOXIDE

ST. LAW	RENCE RIVER		YEAR							
			93	94	95	96	97			
COLONY STRACHAN ISLAND	SPECIES DOUBLE- CRESTED CORMORANT HERRING GULL RING-BILLED	N MEAN STD N MEAN STD N	0.0379	1 0.0422 1	1 0.0112 1 0.0202	1 0.0335	0.017			
	GULL	MEAN STD		0.0119		0.014				

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES				999		
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0843	0.0799	0.0311	0.0416	0.026
		STD	A21/4/2004 0.5/17	5005900300	: 3245-325074	VIII SAME WAS ASSESSED.	
PIGEON ISLAND	DOUBLE-	N		ľ	1	Į,	
	CRESTED	MEAN			0.017		
	CORMORANT	STD					
	GREAT BLACK-	N	1	2	1		
	BACKED GULL	MEAN	0.0972	0.0708			
		STD		0.0203	1		
	HERRING	N	1	1			
	GULL	MEAN	0.0629	0.0697			
		STD		- 8		Ÿ.	
LITTLE GALLOO	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.01	1	
	CORMORANT	STD					
	GREAT BLACK-	N	1	1		1	
	BACKED GULL	MEAN	0.1345	0.137			
		STD			-		
	HERRING	N	1	1		1	
	GULL	MEAN	0.0639	0.1069			
		STD					
GULL ISLAND,	GREAT BLACK-		1	1		1	
PRESQU'ILE	BACKED GULL		0.1373				
PROVINCIAL		STD					
PARK	HERRING	N	1			- 4	
	GULL	MEAN	0.0664		- 1		
		STD					
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	0.0583	0.039	0.0242	0.0449	0.017
		STD			201	1	
HAMILTON	DOUBLE-	N	(1		
HARBOUR	CRESTED	MEAN		- 1	0.0221		
	CORMORANT	STD		1		1	
	HERRING	N	1	1	1	1	. 1
	GULL	MEAN	0.0393	0.0306	0.0581	0.0266	0.015
		STD	l.				
	RING-BILLED	N		2		1	
	GULL	MEAN		0.042		0.017	
		STD		27000000		54,167,054	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* HEPTACHLOR EPOXIDE

NIAGAR	YEAR							
			93	94	95	96	97	
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0.0419	0.0342	0.021	0.0333	0.01	

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	0.0339		0.0234	0.0281	0.018
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	0.0503	0.0575	0.0533	0.0406	0.029
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED CORMORANT	MEAN STD			0.027		
MIDDLE SISTER	HERRING	N		1		1	
ISLAND	GULL	MEAN STD		0.0511			

DETR	ROIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD	0.0401	0.0298	0.0168	1 0.0309 1 0.025	0.016			

LAKE I	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0,11	0.1155	0.0506	0.0633	0.0494	0.035
MAIDEN ISLAND	HERRING	N	1					
	GULL	MEAN STD	0.1856					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		0.0716 0.0576	0.0752	0.045	0.0638	0.032
DUCK ISLAND	HERRING GULL	N MEAN STD	0					
GULL ISLAND	HERRING GULL	N MEAN STD	0					
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED CORMORANT	MEAN STD				0.0254		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* HEPTACHLOR EPOXIDE

LAKE HUR	ON (CONT.)				YEA	₹		
	7.0% 19		93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N		1	1			
ISLAND	BACKED GULL	MEAN STD			0.2068			
	HERRING	N			1			
	GULL	MEAN STD			0.0689			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			0.079			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0313			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.1185	0.0989	0.1135	0.0533	0.0773	0.034
AFRICA ROCK	DOUBLE-	N			1	1		
	CRESTED	MEAN		1		0.0291		
	CORMORANT	STD			(1			

LAKE M	CHIGAN		YEAR							
			93	94	94	95	96	97		
COLONY	SPECIES	=======================================								
GULL ISLAND	HERRING	N	1	1	12	1	1	1		
	GULL	MEAN	0.3203	0.3618	0.3095	0.112	0.1362	0.177		
		STD		4	0.1707					
GARY, INDIANA	HERRING	N	1				- 1			
	GULL	MEAN	0.1783			- 1				
		STD								
EAST CHICAGO	HERRING	N	1	1		1				
	GULL	MEAN	0.1228	0.099	1	0.0988				
		STD								
BIG SISTER	HERRING	N	1	13		1	1	1		
ISLAND	GULL	MEAN	0.1981	0.1733	1	0.1795	0.0879	0.105		
		STD	T0000 \$ 500	0.0734		90000000000000000000000000000000000000		NEW PRES		

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N	1	1	1	- 1	
ISLAND	CRESTED	MEAN			0.0337	- 1	
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	0.0996	0.1111	0.0769	0.0996	0.037
		STD			0.0407		
GRANITE	HERRING	N	1	1	13	1	1
ISLAND	GULL	MEAN	0.1635	0.1072	0.0863	1	0.054
		STD		1000 643	0.0564		
	RING-BILLED	N	1			1	
	GULL	MEAN				0.066	
		STD	1	1		80.000	
SILVER ISLET	HERRING	N	1			1	
	GULL	MEAN		1		0.0876	
		STD			1		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit: i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* ALPHA-HEXACHLOROCYCLOHEXANE

ST. LAW	RENCE RIVER						
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0033		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	ND
	RING-BILLED	N	- 11	1		1	
	GULL	MEAN STD		ND		ND	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	- 1
	GULL	MEAN	ND	ND	ND	ND	NE
		STD	20.000		7220	111	
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			0.0028		
	CORMORANT	STD					
	GREAT BLACK-	N	1	2			
	BACKED GULL	MEAN	ND	ND			
		STD		574.12			
	HERRING	N	- 1	- 1			
	GULL	MEAN	ND	ND		1	
		STD					
LITTLE GALLOO		N		200	1		
ISLAND	CRESTED	MEAN			0.0028		
	CORMORANT	STD		- 4			
	GREAT BLACK-		. 1	1			
	BACKED GULL		ND	ND			
		STD					
	HERRING	N	1	1			
	GULL	MEAN	ND	ND			
		STD					
GULL ISLAND,	GREAT BLACK-		1				
PRESQU'ILE	BACKED GULL		ND				
PROVINCIAL		STD					
PARK	HERRING	N	1				
	GULL	MEAN	ND				
	CVICE CONTROL CONTROL	STD					
LESLIE STREET	HERRING	N	1	1	1	1	
SPIT	GULL	MEAN	ND	ND	ND	ND	NE
	DOUBLE	STD	11				
HAMILTON	DOUBLE-	N			2 202	- 1	
HARBOUR	CRESTED	MEAN			0.003		
	CORMORANT	STD		14			-
	HERRING	N	1	1	1	1	
	GULL	MEAN	ND	ND	ND	ND	NE
	DINO DILLED	STD					
	RING-BILLED	N		2		1	
	GULL	MEAN		ND		ND	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* ALPHA-HEXACHLOROCYCLOHEXANE

NIAGAR	NIAGARA RIVER						
			93	94	95	96	97
COLONY NIAGARA RIVER	SPECIES	N	1	1	1	1	1
MACAKARIVER	GULL	MEAN STD	ND	ND	ND	ND	ND

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES				24	-	
PORT	HERRING	N	1	1	1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	ND		ND	ND	ND
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	ND
EAST SISTER	DOUBLE-	N	(5)	1	1		
ISLAND	CRESTED CORMORANT	MEAN STD			0.0034		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		ND			

DETR	ROIT RIVER		YEAR						
			93	94	95	96	97		
COLONY FIGHTING	SPECIES HERRING	N	1	1	1	1	-1		
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND		
	RING-BILLED	N	1			1			
	GULL	MEAN STD		0		ND			

LAKE	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES			W)				
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	ND
MAIDEN ISLAND	HERRING	N	1	- 1		1		
	GULL	MEAN STD	ND					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		ND	ND	ND	ND	ND
DUCK ISLAND	HERRING	N	0			- 1		
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0	1				
	GULL	MEAN STD						
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED CORMORANT	MEAN STD				0.0043		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* ALPHA-HEXACHLOROCYCLOHEXANE

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD			ND			
	HERRING	N			1			
	GULL	MEAN STD			ND			
MOUSE ISLAND	HERRING	N	24		1			
	GULL	MEAN STD			ND			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	ND
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED	MEAN				0.0031		
	CORMORANT	STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	ND	ND
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	ND	- 4				
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	ND	ND		ND		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	ND	ND		ND	ND	ND

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0026		
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD				7-1	
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	ND	ND	ND	1	ND
		STD	- 12	0.00	10000		
	RING-BILLED	N				1	
	GULL	MEAN				ND	
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				ND	
1 1 2		STD				3,10	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* BETA-HEXACHLOROCYCLOHEXANE

ST. LAW	RENCE RIVER	-			YEAR		
		Г	93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N	1		1		
ISLAND	CRESTED	MEAN	1	4	0.002		
	CORMORANT	STD	- 1				
	HERRING	N	1	1	1	1	-1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD	8				
	RING-BILLED	N		1		1	
	GULL	MEAN		ND		ND	
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	NE
		STD					
PIGEON ISLAND	DOUBLE-	N		1	1		
	CRESTED	MEAN	1		0.0021		
	CORMORANT	STD	4		1		
	GREAT BLACK-	N	1	2			
	BACKED GULL	MEAN	ND	ND	1		
		STD	30.8 (4)	The Art T			
	HERRING	N	1	1	1		
	GULL	MEAN	ND	ND		1	
		STD	A	SNESTINEN		1	
LITTLE GALLOO	DOUBLE-	N			1	- 1	
ISLAND	CRESTED	MEAN			ND	1	
107	CORMORANT	STD					
	GREAT BLACK-	N	1	1			
	BACKED GULL	MEAN	ND	ND			
		STD			1		
	HERRING	N	1	1		1	
	GULL	MEAN	ND	ND	1		
		STD					
GULL ISLAND,	GREAT BLACK-		1			1	
PRESQU'ILE	BACKED GULL		ND			- 1	
PROVINCIAL		STD				- 1	
PARK	HERRING	N	1		1		
	GULL	MEAN	ND			1	
		STD					
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	ND	ND	ND	ND	ND
		STD	1	1			
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN	1	P	0.0027		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD		505,500	SAMOOT AN		
	RING-BILLED	N		2		1	
	GULL	MEAN		ND		ND	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* BETA-HEXACHLOROCYCLOHEXANE

NIAGARA RIVER			YEAR						
			93 94 95 96						
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	1 ND		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES	odile.					
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	ND		ND	ND	ND
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	ND
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED CORMORANT	MEAN STD			0.002		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		ND			

DETE	ROIT RIVER		YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD	1 ND	1 ND	1 ND	1 ND 1 ND	1 ND		

LAKE	HURON				YEA	R	100	
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	ND
MAIDEN ISLAND	HERRING	N	1				1	
	GULL	MEAN STD	ND					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	11	ND	ND	ND	ND	ND
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN STD	11					
GULL ISLAND	HERRING	N	0			1		
	GULL	MEAN STD						
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED	MEAN				0.0023		
	CORMORANT	STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in ρg/g; all others in μg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* BETA-HEXACHLOROCYCLOHEXANE

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES		- 11.53144					
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD			ND			
	HERRING	N			1			
	GULL	MEAN STD			ND			
MOUSE ISLAND	HERRING	N			-1			
	GULL	MEAN STD			ND			
GERTRUDE	RING-BILLED	N		1	1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	ND
AFRICA ROCK	DOUBLE-	N				1	1	
	CRESTED	MEAN				0.0021	1	
	CORMORANT	STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	ND	ND
GARY, INDIANA	HERRING	N	1			ľ		
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	ND	ND		ND		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	ND	ND		ND	ND	ND

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						19
STEAMBOAT	DOUBLE-	N	1	1	1		
ISLAND	CRESTED	MEAN			0.0022		
	CORMORANT	STD	1				
AGAWA ROCK	HERRING	N	1	1	13	1	134
	GULL	MEAN	ND	ND	ND	ND	NE
		STD		6		134490-1142	
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	ND	ND	ND		ND
		STD				- 1	
e e	RING-BILLED	N		1		1	
	GULL	MEAN	ſ	1		ND	
		STD				VAS TAS	
SILVER ISLET	HERRING	N	k		- 1	1	
	GULL	MEAN				ND	
		STD				30,000	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in $\rho g/g$; all others in $\mu g/g$. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs; TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* GAMMA-HEXACHLOROCYCLOHEXANE

ST. LAW	RENCE RIVER			YEA	R		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N	- 1		1		
ISLAND	CRESTED	MEAN			ND		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	ND
	RING-BILLED	N		1		1	
	GULL	MEAN STD		ND		ND	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	
	GULL	MEAN	ND	ND	ND	ND	NE
		STD	-19	1000	1		
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			0.0012		
	CORMORANT	STD					
	GREAT BLACK-	N	1	2			
	BACKED GULL	MEAN	ND	ND			
		STD		0			
	HERRING	N	1	1			
	GULL	MEAN	ND	ND			
		STD	-	40.45-35.0			
LITTLE GALLOO	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN	1		0.0008		
	CORMORANT	STD					
	GREAT BLACK-	N	1	1		· ·	
	BACKED GULL	MEAN	ND	ND			
		STD					
	HERRING	N	1	1			
	GULL	MEAN	ND	ND			
		STD					
GULL ISLAND,	GREAT BLACK-	N	1				
PRESQU'ILE	BACKED GULL	MEAN	ND				
PROVINCIAL		STD					
PARK	HERRING	N	1				
Maria Maria	GULL	MEAN	ND				
1000		STD					
LESLIE STREET	HERRING	N	1	1	1	1	
SPIT	GULL	MEAN	ND	ND	ND	ND	NE
		STD					
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN			0.0059		
	CORMORANT	STD					
	HERRING	N	1	1	1	- 1	1
	GULL	MEAN	ND	ND	ND	ND	NE
		STD					
	RING-BILLED	N		2		1	
	GULL	MEAN		ND		ND	
		STD		10000		77.5	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* GAMMA-HEXACHLOROCYCLOHEXANE

NIAGARA RIVER							
			93	94	95	96	97
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	1 ND

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	ND]	ND	ND	ND
MIDDLE ISLAND	HERRING	N	1	1	1	1	- 1
	GULL	MEAN STD	ND	ND	ND	ND	ND
EAST SISTER	DOUBLE-	N		1	1		
ISLAND	CRESTED CORMORANT	MEAN STD			0.0012		
MIDDLE SISTER	HERRING	N	1	-1			
ISLAND	GULL	MEAN STD		ND			

DETE	ROIT RIVER		YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	1 ND		
	RING-BILLED GULL	N MEAN STD				ND ND			

LAKE H	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES				-			
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	NE
MAIDEN ISLAND	HERRING	N	1	(
	GULL	MEAN STD	ND					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	Į.	ND	ND	ND	ND	ND
DUCK ISLAND	HERRING	N	0		J		1	
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	o	1				
	GULL	MEAN			1			
		STD		- 1	1	- 1		
WALLIS	DOUBLE-	N	1	1		1		
ROCKS	CRESTED	MEAN		1		0.0011		
	CORMORANT	STD				2100		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11.	CONTAMINANT DATA	SUMMARIZED	BY COMPOUND	ANALYZED*
GAMMA-H	EXACHLOROCYCLOH	EXANE		

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD			ND			
	HERRING	N			1			
	GULL	MEAN STD			ND			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			ND			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND	ND	ND	ND	ND
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED	MEAN				0.0009		
	CORMORANT	STD						

LAKE M	ICHIGAN		YEAR					
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	ND	ND	ND	ND	ND	ND
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	ND	ND		ND		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	ND	ND		ND	ND	ND

LAKE S	UPERIOR	0			YEAR		
			93	94	95	96	97
COLONY	SPECIES					=	
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0011		
	CORMORANT	STD				4.0	
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD		-			
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	ND	ND	ND		ND
		STD					
	RING-BILLED	N				1	
	GULL	MEAN				ND	
		STD		1			
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				ND	
	975,775,775	STD				10.55	

All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TOTAL MERCURY IN HERRING GULL EGGS (FOR 1992 ONLY)

ST. LAW	YEAR		
	92		
COLONY	SPECIES		
STRACHAN	HERRING	N	1
ISLAND	GULL	MEAN	0.1679
		STD	

LAKE 0	YEAR		
		Γ	92
COLONY	SPECIES		
SNAKE ISLAND	HERRING	N	1
	GULL	MEAN	0.2139
		STD	
LESLIE	HERRING	N	1
STREET SPIT	GULL	MEAN	0.175
		STD	
HAMILTON	HERRING	N	1
HARBOUR	GULL	MEAN	0.1248
		STD	

NIAGARA RIVER			YEAR
			92
COLONY	SPECIES		
NIAGARA RIVER	HERRING	N	1
	GULL	MEAN STD	0.161

LAKE	YEAR		
			92
COLONY	SPECIES		00000
PORT	HERRING	N	1
COLBORNE	GULL	MEAN	0.1365
LIGHTHOUSE		STD	
MIDDLE ISLAND	HERRING	N	1
	GULL	MEAN	0.1518
		STD	

DETROIT RIVER			YEAR
			92
COLONY	SPECIES		
FIGHTING	HERRING	N	1
ISLAND	GULL	MEAN STD	0.138

^{*} All units measured on a wet weight basis. Dioxins and furans measured in $\rho g/g$; all others in $\mu g/g$. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TOTAL MERCURY IN HERRING GULL EGGS (FOR 1992 ONLY)

LAKE	HURON		YEAR
			92
COLONY	SPECIES		
CHANTRY	HERRING	N	1
ISLAND	GULL	MEAN STD	0.1512
CHANNEL	HERRING	N	1
SHELTER ISLAND	GULL	MEAN STD	0.2448
ST. MARTIN'S	HERRING	N	1
SHOAL	GULL	MEAN STD	0.165
DOUBLE	HERRING	N	1
ISLAND	GULL	MEAN STD	0.1968

LAKE	YEAR		
	92		
COLONY	SPECIES		
GULL ISLAND	HERRING	N	1
	GULL	MEAN	0.1404
		STD	
BIG SISTER	HERRING	N	1
ISLAND	GULL	MEAN	0.2525
		STD	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED*
TOTAL MERCURY IN HERRING GULL EGGS (FOR 1992 ONLY)

LAKE SI	JPERIOR		YEAR
			92
COLONY	SPECIES		
CHENE ISLAND	HERRING	N	1
	GULL	MEAN STD	0.1296
AGAWA ROCK	HERRING	N	1
	GULL	MEAN STD	0.1525
MARATHON	HERRING	N	1
	GULL	MEAN STD	0.115
LEADMAN	HERRING	N	1
ISLAND	GULL	MEAN STD	0.195
LITTLE	HERRING	N	1
TRAVERSE ISLAND	GULL	MEAN STD	0.1976
LAKE LINDEN/	HERRING	N	1
TORCH ISLAND		MEAN STD	0.1846
GRANITE	HERRING	N	1
ISLAND	GULL	MEAN STD	0.1675
PAPOOSE	HERRING	N	1
ISLAND	GULL	MEAN STD	0.1664
MUTTON	HERRING	N	1
ISLAND	GULL	MEAN STD	0.13
GULL ISLAND	HERRING	N	1
	GULL	MEAN STD	0.2275
KNIFE ISLAND	HERRING	N	1
	GULL	MEAN STD	0.185

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TRIS (4-CHLOROPHENYL) METHANOL

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY STRACHAN ISLAND	SPECIES DOUBLE- CRESTED CORMORANT HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD N MEAN STD	1 0.0102	1 0.0081 1 ND	1 0.0131 1 0.004	1 ND 1 ND	1 ND

LAKE O	NTARIO				YEAR			
			93 94 95 96					
COLONY	SPECIES							
SNAKE ISLAND	HERRING	N	1	1	1	1	1	
	GULL	MEAN	0.0171	0.0138	0.0073	ND	ND	
		STD	W. 10.19		81,52,02			
PIGEON ISLAND	DOUBLE-	N			1			
	CRESTED	MEAN			0.0057			
	CORMORANT	STD						
	GREAT BLACK-	N	1	2				
	BACKED GULL	MEAN	0.0342	0.0237		1		
	WEIGHT BERNE	STD	20002005	0.0002				
	HERRING	N	1	1				
	GULL	MEAN	0.0161	0.0131				
		STD			10.00			
LITTLE GALLOO	DOUBLE-	N	-		1			
ISLAND	CRESTED	MEAN			0.0081			
	CORMORANT	STD			(6.78)3(6.32)			
	GREAT BLACK-	655 (CAC)	1	1				
	BACKED GULL	MEAN	0.0375	0.0316				
		STD	34113131					
	HERRING	N	1	1				
	GULL	MEAN	0.0189	0.019				
	30.2.024.30.E	STD	3,02,02	1 11 11				
GULL ISLAND,	GREAT BLACK-	CONTRACTOR OF THE PROPERTY OF	1	1				
PRESQU'ILE	BACKED GULL	MEAN	0.0426					
PROVINCIAL		STD	10.00					
PARK	HERRING	N	1					
	GULL	MEAN	0.0168					
		STD						
LESLIE STREET	HERRING	N	1	1	1	1	1	
SPIT	GULL	MEAN	0.0101	0.0096	0.0067	0.0102	ND	
		STD						
HAMILTON	DOUBLE-	N	1		1			
HARBOUR	CRESTED	MEAN			0.0095			
	CORMORANT	STD		1				
	HERRING	N	1	1	1	1	1	
	GULL	MEAN	0.0106	0.0089	0.0095	ND	ND	
		STD				11.30.5		
	RING-BILLED	N		2		1		
	GULL	MEAN		0.0029		ND		
		STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TRIS (4-CHLOROPHENYL) METHANOL

NIAGAR	YEAR						
			93	94	95	96	97
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 0.0087	1 0.0125	1 0.0043	1 ND	1 ND

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY PORT	SPECIES HERRING	N	1		4	1	
COLBORNE LIGHTHOUSE	GULL	MEAN STD	0.0095		0.0037	ND	ND
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	0.0092	0.0106	0.0103	ND	ND
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED CORMORANT	MEAN STD			0.0172		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		0.0099			

DETROIT RIVER			YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0.0094	0.0074	0.005	1 ND	1 ND		
	RING-BILLED GULL	N MEAN STD				ND 1			

LAKE I	HURON				YEA	R	_	
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0098	0.0098	0.0106	0.0059	ND	ND
MAIDEN ISLAND	HERRING	N	1				1	
	GULL	MEAN STD	0.015					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		0.0266	0.0202	0.0147	0.0199	0.011
DUCK ISLAND	HERRING	N	0			- 1		
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0					
	GULL	MEAN STD						
WALLIS	DOUBLE-	N		-	1	1		
ROCKS	CRESTED CORMORANT	MEAN STD				0.0175	**	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TRIS (4-CHLOROPHENYL) METHANOL

LAKE HUR	ON (CONT.)				YEA	R		7. 1
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD			0.0211			
	HERRING	N		4	1			
	GULL	MEAN STD			0.0084			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			0.0108			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0032			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0128	0.0092	0.0152	0.0066	0.0086	ND
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED CORMORANT	MEAN STD				0.012		

LAKE M	CHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY GULL ISLAND	SPECIES HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	0.0373	0.0298	0.0254	0.0128	0.0214	0.016
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	0.02					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	0.015	0.0109		0.0129		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	0.02	0.0168 0.0047		0.0168	0.0135	0.008

UPERIOR				YEAR		
		93	94	95	96	97
SPECIES						
DOUBLE-	N			1		
CRESTED	MEAN			0.0111		
CORMORANT	STD					
HERRING	N	1	1	13	1	1
GULL	MEAN	0.0095	0.0153	0.0082	0.0094	ND
	STD	9700000	7.50	0.0036	2,000	
HERRING	N	1	1	13		1
GULL	MEAN	0.0144	0.0105	0.0073		0.005
	STD			0.0024		
RING-BILLED	N				1	
GULL	MEAN				ND	
JULI						
HERRING					1	
	Table 1				0 1114	
JULE	1888				J. 11.1.4	
	DOUBLE- CRESTED CORMORANT HERRING GULL HERRING GULL	SPECIES DOUBLE- N CRESTED MEAN CORMORANT STD HERRING N GULL MEAN STD HERRING N GULL MEAN STD RING-BILLED N GULL MEAN STD RING-BILLED N GULL MEAN STD HERRING N	SPECIES DOUBLE- N CRESTED MEAN CORMORANT STD HERRING N 1 GULL MEAN 0.0095 STD HERRING N 1 GULL MEAN 0.0144 STD RING-BILLED N GULL MEAN STD HERRING N 1 GULL MEAN STD HERRING N 6 GULL MEAN STD HERRING N 6 GULL MEAN	93 94	93 94 95	93 94 95 96

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* MIREX

ST. LAWI	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY STRACHAN ISLAND	SPECIES DOUBLE- CRESTED CORMORANT HERRING	N MEAN STD N	1	1	0.159	1	9
	GULL RING-BILLED GULL	MEAN STD N MEAN STD	0.5476	0.5745 1 0.0152	0.481	0.5414 1 0.016	0.351

LAKE O	NTARIO			100	YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	-
	GULL	MEAN	0.8698	0.7429	0.5349	0.5738	0.488
		STD	V. V. S.	A.M.C. SERVENCES	0.0000000000000000000000000000000000000	A STATE OF THE STA	
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			0.2957	1	
	CORMORANT	STD					
	GREAT BLACK-	N	1)	2			
	BACKED GULL	MEAN	1.5501	1.5843			
		STD		0.1324	1		
	HERRING	N	1	1	- 1		
	GULL	MEAN	0.764	1.1014	1	ľ	
		STD			Ì		
LITTLE GALLOO	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.2044	1	
	CORMORANT	STD					
	GREAT BLACK-		1	1			
	BACKED GULL	200 Mary 100 Co.	2.1956	2.4325	1		
	************	STD		2000			
	HERRING	N	1	1			
	GULL	MEAN	0.9369	1.151	1		
01111 101 4110	0054701404	STD	-		j	1	
GULL ISLAND,	GREAT BLACK-		2 2220				
PRESQU'ILE PROVINCIAL	BACKED GULL	1000 C C C C C C C C C C C C C C C C C C	3.3238	K	1		
PARK	HERRING	STD	4		- 1		
PARK	GULL	MEAN	0.9087		- 1		
	GULL	STD	0.9067	- 0	- 1	1	
LESLIE STREET	HERRING	N	1	- 1	- 1	- 1	
SPIT	GULL	MEAN	0.7639	0.861	0.6001	0.7774	0.431
0, 1,	COLL	STD	0.7003	0.001	0.0001	0.7774	0.43
HAMILTON	DOUBLE-	N		J.	- 1		
HARBOUR	CRESTED	MEAN	1		0.3764		
THURBOOK	CORMORANT	STD			0.0.01	1	
	HERRING	N I	4	1	1	1	1
	GULL	MEAN	0.5407	0.5521	0.0559	0.5713	0.278
	OULL:	STD	0.0 107	3.0021	0.0000	0.07 10	0.270
	RING-BILLED	N		2	1	4	
	GULL	MEAN		0.2022		0.06	
	COLL	STD	1	0.2022		0.00	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* MIREX

NIAGARA RIVER			YEAR						
			93 94 95 96						
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 0.2278	0.3001	0.173	1 0.2311	0.077		

LAKE	ERIE		- 127		YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	0.1153		0.1081	0.1139	0.028
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	0.0328	0.0439	0.031	0.0608	0.008
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED CORMORANT	MEAN STD			0.031		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		0.0335			

DETR	OIT RIVER	0	YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD	0.0385	0.0055	1 0.1164	1 0.0288 1 0.005	0.014		

LAKE	IURON	70			YEA	R		
			93	93	94	95	96	97
COLONY CHANTRY	SPECIES HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0798	0.0322	0.0623	0.0687	0.1077	0.034
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0.0636	10				
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		0.065 0.052	0.0715	0.0699	0.1089	0.057
DUCK ISLAND	HERRING GULL	N MEAN STD	0					
GULL ISLAND	HERRING GULL	N MEAN STD	0				350	
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0.0916		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* MIREX

LAKE HUR	ON (CONT.)				YEA	2		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N		1	1			
ISLAND	BACKED GULL	MEAN STD			0.2264			
	HERRING	N			1			
	GULL	MEAN STD			0.0974			
MOUSE ISLAND	HERRING	N	- 1	- 1	1	1		
	GULL	MEAN STD			0.2094			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0065			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0879	0.0892	0.1434	0.0501	0.1726	0.023
AFRICA ROCK	DOUBLE-	N			1	1		
	CRESTED	MEAN		- 1		0.0295		
	CORMORANT	STD					1	

LAKE M	CHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	0.1355	0.0965	0.1033	0.0537	0.0787	0.04
GARY, INDIANA	HERRING	N	1	- 1				
	GULL	MEAN STD	0.074					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	0.0624	0.0541		0.0489		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	0.0484	0.0725 0.0733		0.045	0.0353	0.021

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N		1	1		
ISLAND	CRESTED	MEAN			0.0532		
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	0.0806	0.0938	0.0847	0.0785	0.017
		STD			0.0683		
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	0.0691	0.109	0.0832		0.017
		STD			0.1063		
	RING-BILLED	N	1			1	
	GULL	MEAN	1			0.038	
		STD		- 1			
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				0.0458	
		STD			×		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs. TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PHOTOMIREX

ST. LAWI	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY STRACHAN ISLAND	SPECIES DOUBLE- CRESTED CORMORANT	N MEAN STD			1 0.0485		
	HERRING GULL	N MEAN STD	1 0.2092	0.203	1 0.1724	0.2099	0.121
	RING-BILLED GULL	N MEAN STD	3.41	0.0061		0.01	

terrore entitle out for	LAKE ONTARIO			YEAR						
OLONY SPECIES			93	94	95	96	97			
COLONY	SPECIES									
SNAKE ISLAND	HERRING	N	1	1	1	1	1			
	GULL	MEAN	0.3722	0.2884	0.2148	0.2283	0.192			
		STD								
PIGEON ISLAND	DOUBLE-	N			1					
	CRESTED	MEAN			0.1152					
	CORMORANT	STD								
	GREAT BLACK-	N	1	2		I.				
	BACKED GULL	MEAN	0.645	0.5471						
		STD		0.1584	6					
	HERRING	N	1	1	Į.					
	GULL	MEAN	0.3318	0.326	8					
		STD								
LITTLE GALLOO	DOUBLE-	N			1					
ISLAND	CRESTED	MEAN			0.0667					
Paris .	CORMORANT	STD	i							
	GREAT BLACK-		1	1						
	BACKED GULL		0.9030	0.9871						
		STD	0.0			4				
	HERRING	N	1	1						
	GULL	MEAN	0.3731	0.4271						
		STD			- 1					
GULL ISLAND,	GREAT BLACK-		- 1			16				
PRESQU'ILE	BACKED GULL		1.3694							
PROVINCIAL		STD				8				
PARK	HERRING	N	1		T					
	GULL	MEAN	0.3832							
FOLIE OTDEET	HEDDING	STD			Sar					
LESLIE STREET	HERRING	N	0.0000	0.0400	0.2093	0.326	0.157			
SPIT	GULL	MEAN STD	0.3032	0.2428	0.2093	0.326	0.157			
LIAMIL TON	DOUBLE	5300 cm (1000)			98					
HAMILTON HARBOUR	DOUBLE- CRESTED	N MEAN			0.149					
HANDOUN	CORMORANT	STD			0.149					
	HERRING	N	4	4	4	4	4			
	GULL	MEAN	0.215	0.1511	0.0275	0.2248	0.103			
	GULL	STD	0.215	0.1511	0.0275	0.2248	0.103			
	RING-BILLED	N		2		4				
	GULL	MEAN		0.0716		0.022				
	GULL	STD		0.0710		0.022				

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PHOTOMIREX

NIAGARA RIVER			YEAR							
			93	94	95	96	97			
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0.0928	0.0803	1 0.0645	1 ND	0.031			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	0.0455		0.0454	0.0464	0.012
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	0.013	0.1934	ND	0.0234	0.003
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED CORMORANT	MEAN STD			0.0119		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		ND			

DETF	DETROIT RIVER			YEAR						
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD	0.0136	1 0.2104	1 0.0471	1 ND 1 0.002	0.004			

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES			= = [1 - L			
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN	0.041	0.0216	0.0179	0.0367	0.0438	0.018
		STD	-	0.0132				
MAIDEN ISLAND	HERRING	N	1			71		
Account to the contract of	GULL	MEAN	0.0446					
		STD				- 1		
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER	GULL	MEAN		0.0281	0.2922	0.0361	0.043	0.029
ISLAND		STD		0.0303				
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN						
an target		STD	4.1			1		
GULL ISLAND	HERRING	N	0					
	GULL	MEAN						
		STD						
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED	MEAN	1			0.0341		
	CORMORANT	STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs; TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PHOTOMIREX

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD			0.1088			
	HERRING	N			1			
	GULL	MEAN STD			0.0502			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			0.0919			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0458	0.0437	0.0649	0.025	0.0768	0.014
AFRICA ROCK	DOUBLE-	N				1	71	
	CRESTED	MEAN STD				0.0141		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES		ten fil					
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	0.0779	0.0504	0.3625	0.0301	0.046	0.036
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	ND	0.0319		0.0315		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	ND	0.0265 0.0329		0.0313	0.0271	0.018

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN		4	0.0171		
	CORMORANT	STD	1.0				
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	0.0418	0.0831	0.0417	0.0457	0.011
		STD			0.0337		
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	0.0386	0.0433	0.0395		0.013
The same tensor and		STD	3433333333	0.1212.0.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	0.0449		
	RING-BILLED	N			311231131	1	
	GULL	MEAN				0.021	
		STD				100	
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				0.1257	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* CIS-NONACHLOR

ST. LAW	RENCE RIVER		YEAR							
			93	94	95	96	97			
COLONY	SPECIES									
STRACHAN	DOUBLE-	N			1					
ISLAND	CRESTED	MEAN			0.0082					
	CORMORANT	STD	1	1						
	HERRING	N	1	1	1	1	1			
	GULL	MEAN	0.0301	0.0272	0.0194	0.0272	0.015			
		STD								
	RING-BILLED	N		1		1				
	GULL	MEAN		ND		0.006				
		STD		5,000	1					

LAKE O	NTARIO				YEAR		
		-	93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.063	0.0568	0.0326	0.0343	0.027
		STD					
PIGEON ISLAND	DOUBLE-	N	1		1		
	CRESTED	MEAN			0.0357		
	CORMORANT	STD					
	GREAT BLACK-		1	2		l.	
	BACKED GULL	MEAN	0.0549	0.0564			
		STD		0.0002			
	HERRING	N	1	1			
	GULL	MEAN	0.0505	0.0515		- 1	
		STD				1	
LITTLE GALLOO		N			1		
ISLAND	CRESTED	MEAN			0.0099	1	
	CORMORANT	STD				- 4	
	GREAT BLACK-		1	1			
	BACKED GULL		0.0602	0.0789			
	CANALAS MANASANAS	STD	120				
	HERRING	N	1	1	1	ķ.	
	GULL	MEAN	0.0561	0.0576			
		STD					
GULL ISLAND,	GREAT BLACK-	C. C. common com	1		- 1		
PRESQUILE	BACKED GULL	MEAN	0.2092				
PROVINCIAL	HEDDING	STD					
PARK	HERRING	N	0.0044				
	GULL	MEAN	0.0614				
LESLIE STREET	HERRING	STD	ia.	- 4			
SPIT	GULL	MEAN	0.0334	0.0404	0.0226	0.0401	0.017
SFII	GOLL	STD	0.0334	0.0404	0.0226	0.0401	0.017
HAMILTON	DOUBLE-	N		- 1			
HARBOUR	CRESTED	MEAN		- 1	0.0183		
INNECON	CORMORANT	STD		- 1	0.0103		
	HERRING	N	-1	4	1	1	4
	GULL	MEAN	0.0348	0.0308	0.0526	0.0263	0.015
	GOLL	STD	0.0346	0.0306	0.0320	0.0203	0.015
	RING-BILLED	N		2		1	
	GULL GULL	MEAN		0.0233		0.009	
	GOLL	STD		0.0200		0.009	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* CIS-NONACHLOR

NIAGAR		YEAR							
		93	94	95	96	97			
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 0.0293	1 0.034	1 0.0206	1 0.031	0.008		

LAKE	ERIE				YEAR		
170 537 47 5 511			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	0.0257		0.0208	0.0258	0.014
LIGHTHOUSE		STD			y		
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0335	0.0377	0.0413	0.038	0.015
		STD			1,000		
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0172		
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		0.0358			
		STD		- AMA			

DETE	ROIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD	0.0261	1 0.0254	1 0.0146	1 0.0202 1 0.005	0.01			

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN	0.0569	0.056	0.0347	0.0503	0.0487	0.026
		STD	-	0.0275				
MAIDEN ISLAND	HERRING	N	.1					
	GULL	MEAN	0.09					
		STD		1				
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER	GULL	MEAN		0.0662	0.0532	0.0335	0.0466	0.028
ISLAND		STD		0.0354				
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN				ν		
		STD				1		
GULL ISLAND	HERRING	N	0					
	GULL	MEAN						
		STD						
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED	MEAN				0.0157		
	CORMORANT	STD					t	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* CIS-NONACHLOR

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N	ſ		1			
ISLAND	BACKED GULL	MEAN STD			0.2433			
	HERRING	N	1		1			
	GULL	MEAN STD			0.0729			
MOUSE ISLAND	HERRING	N		1	1		1	
	GULL	MEAN STD			0.0662			
GERTRUDE	RING-BILLED	N			1	- 1		
ISLAND	GULL	MEAN STD		3572	0.0071			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0702	0.0551	0.0753	0.05	0.0584	0.031
AFRICA ROCK	DOUBLE-	N				1	1	
	CRESTED CORMORANT	MEAN STD				0.0117		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES		(A)					
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	0.0764	0.1308	0.1196	0.0695	0.0778	0.132
GARY, INDIANA	HERRING	N	1	11	2704024024024		- 1	
	GULL	MEAN STD	0.073					
EAST CHICAGO	HERRING	N	1	1	- 1	1		
	GULL	MEAN STD	0.0687	0.0598		0.0603		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	0.0894	0.0837 0.0189		0.1024	0.0635	0.074

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES		7				
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.02		
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	0.0564	0.0503	0.0552	0.0659	0.028
		STD			0.0386		
GRANITE	HERRING	N	1	1	13	- 1	1
ISLAND	GULL	MEAN	0.072	0.0841	0.0508		0.037
		STD		100	0.0255	- 1	
W	RING-BILLED	N		ls.		1	
	GULL	MEAN				0.02	
		STD				98898096	
SILVER ISLET	HERRING	N				1	
	GULL	MEAN			110	0.0585	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TRANS-NONACHLOR

ST. LAW	RENCE RIVER		(III—9,2		YEAR	X SOLIO,	
			93	94	95	96	97
COLONY	SPECIES			· ·			
STRACHAN	DOUBLE-	N			1	- 1	
ISLAND	CRESTED	MEAN			0.01		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0577	0.0641	0.0473	0.0574	0.009
		STD	500000000000000000000000000000000000000	V229-00-00-00-00-00-	And Sealest Bullion	APPRESSION A	
	RING-BILLED	N		1		1	
	GULL	MEAN		0.0367		0.031	
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0896	0.0823	0.0389	0.0409	0.015
		STD					
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN	1		0.0095		
	CORMORANT	STD	1				
	GREAT BLACK-		1	2			
	BACKED GULL	MEAN	0.1452	0.1484			
		STD		0.0139	10	1	
	HERRING	N	1	1	- 1	1	
	GULL	MEAN	0.0899	0.0704		- 1	
		STD					
LITTLE GALLOO		N		1	1		
ISLAND	CRESTED	MEAN			0.0077		
	CORMORANT	STD			- 1		
	GREAT BLACK-		1	1	- 1		
	BACKED GULL	MEAN	0.2201	0.2666		- 1	
4. 12.		STD	100				
- TA	HERRING	N	1	1	- 1		
the second	GULL	MEAN	0.0875	0.0968		1	
		STD			- 1		
GULL ISLAND,	GREAT BLACK-	ACC 250mm (A) 31	1				
PRESQU'ILE	BACKED GULL	TOTAL STREET,	0.3923	1		- 1	
PROVINCIAL	HEDDING	STD	297		- 1		
PARK	HERRING	N	1	- 1	1		
	GULL	MEAN	0.0845			Ì	
LESLIE STREET	HERRING	N	9	4	- 4	- 4	- 4
SPIT	GULL	MEAN	0.0813	0.0610	0.0303	0.0737	0.017
SFII	GULL	STD	0.0613	0.0010	0.0303	0.0737	0.017
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN	1		0.0143	1	
HANDOON	CORMORANT	STD	· ·		0.0140		
	HERRING	N		- 1	- 1	- 1	1
	GULL	MEAN	0.0617	0.042	0.0548	0.0314	0.011
	GOLL	STD	0.0017	0.072	0.0040	0.0014	0.011
	RING-BILLED	N		2		31	
	GULL	MEAN		0.1013		0.039	
	GULL	STD		0.1010		0.000	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TRANS-NONACHLOR

NIAGARA RIVER			YEAR						
			93 94 95 96						
COLONY	SPECIES	940	7/27	524	1823		102		
NIAGARA RIVER	HERRING	N	1	1	7	1	1		
	GULL	MEAN STD	0.0409	0.0398	0.0368	0.0358	0.005		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	0.033		0.0404	0.0303	0.009
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.0591	0.0569	0.0644	0.0677	0.009
		STD					
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN		18	0.0182	i d	
	CORMORANT	STD	1				
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		0.0695	k.		
		STD		411200000000000000000000000000000000000			

DETROIT RIVER			YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	1 0.0510	1 0.0454	1 0.0256	0.0374	0.007		
	RING-BILLED GULL	N MEAN STD				0.037			

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0835	0.0754	0.029	0.0695	0.0779	0.018
MAIDEN ISLAND	HERRING	N	1				J	
	GULL	MEAN STD	0.0975		1			
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		0.2023	0.1415	0.0795	0.1157	0.022
DUCK ISLAND	HERRING	N	0				,	
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0	17		1		
	GULL	MEAN STD						
WALLIS	DOUBLE-	N			- 4	1		
ROCKS	CRESTED CORMORANT	MEAN STD				0.0126		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TRANS-NONACHLOR

LAKE HUR	ON (CONT.)				YEA	R		
		-	93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N	- 1	- 1	1			
ISLAND	BACKED GULL	MEAN STD			0.7552			
	HERRING	N		1	1			
	GULL	MEAN STD			0.0848			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			0.0655			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0554			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0769	0.0652	0.0737	0.0498	0.0745	0.017
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED CORMORANT	MEAN STD				0.0089		

LAKEM	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	0.1282	0.1816	0.2023	0.0989	0.1242	0.099
GARY, INDIANA	HERRING	N	1		630000000000000000000000000000000000000			
***	GULL	MEAN STD	0.1332					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	0.1287	0.1084		0.1083		
BIG SISTER	HERRING	N	1	13		-1	1	1
ISLAND	GULL	MEAN STD	0.1358	0.11 7 0.0378		0.148	0.1002	0.041

LAKES	UPERIOR	4			YEAR		
5-1-1			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0099		
	CORMORANT	STD	- 1				
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	0.0646	0.0526	0.0515	0.0816	0.016
Land I		STD			0.0329		
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	0.1	0.1055	0.0681		0.02
		STD			0.06		
4.0	RING-BILLED	N	- 1			1	
45-	GULL	MEAN	1			0.145	
		STD	*				
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				0.0597	
SILVER ISLET		N				0.0597	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds; ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OCTACHLOROSTYRENE

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N		1	1		
ISLAND	CRESTED	MEAN			0.0114		
	CORMORANT	STD	1		1		
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	0.0187	0.0172	ND	0.0137	0.005
	RING-BILLED	N		1		1	
	GULL	MEAN STD		ND		0.001	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	0.0322	0.0246	ND	0.0131	0.009
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN	1		0.0092		
	CORMORANT	STD			*		
	GREAT BLACK-		1	2			
	BACKED GULL	MEAN	0.043	0.0349			
		STD	431 000 000000 00000 0000	0.0052			
	HERRING	N	1	1			
	GULL	MEAN STD	0.0288	0.036			
LITTLE GALLOO	DOUBLE-	N			4	1	
ISLAND	CRESTED	MEAN			0.0075		
	CORMORANT	STD				-	
	GREAT BLACK-		1	1		1	
	BACKED GULL	13535	0.0558	0.0613			
	HERRING	N	4	1),		
	GULL	MEAN	0.0304	0.0284	- 1		
		STD	0.0304	0.0204			
GULL ISLAND,	GREAT BLACK-	7.9V138	1	1			
PRESQU'ILE PROVINCIAL	BACKED GULL	MEAN STD	0.0962				
PARK	HERRING	N	1				
	GULL	MEAN STD	0.0229				
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN STD	0.0141	ND	ND	0.0138	0.004
HAMILTON	DOUBLE-	N			1		
HARBOUR	CRESTED	MEAN			0.0183		
	CORMORANT	STD			5.5.55		
	HERRING	N	- 1	1	1	1	1
	GULL	MEAN	0.018	0.0142	ND	ND	ND
		STD					
	RING-BILLED	N		2		1	
	GULL	MEAN STD		0.0084		0.003	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OCTACHLOROSTYRENE

NIAGARA RIVER			YEAR						
			93 94 95 96						
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 0.0163	1 ND	1 ND	1 ND	0.002		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	0.0088		ND	ND	0.003
LIGHTHOUSE		STD			738280	2016/03	
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	0.017	0.0208	0.0201	0.0161	0.008
		STD	9454 5537 55 50		C.3.50001.7500-151	010020000000000000000000000000000000000	
EAST SISTER	DOUBLE-	N	- 1		1		
ISLAND	CRESTED	MEAN			0.0197		
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN	4	0.0722			
		STD		35-7 5-3-3-3			

DETR	DETROIT RIVER			YEAR							
				94	95	96	97				
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0.0208	0.0282	1 ND	0.0177	0.009				
	RING-BILLED GULL	N MEAN STD				0.004					

LAKE	IURON				YEA	R		
Daniel Control			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1000
ISLAND	GULL	MEAN	0.0089	0.0046	ND	ND	0.0252	0.003
12-13 to 1		STD		0.0045	1997.110			
MAIDEN ISLAND	HERRING	N	1	1				
P. S.	GULL	MEAN	0.0125				1	128
		STD	1			Y .		
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER	GULL	MEAN		0.049	0.0545	0.0187	0.0449	0.017
ISLAND		STD		0.0366				
DUCK ISLAND	HERRING	N	0			1		
113	GULL	MEAN		1				
Acres 1		STD	1	1			- 1	
GULL ISLAND	HERRING	N	0			1	- 1	
	GULL	MEAN					1	
Add -		STD					- 1	
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED	MEAN				0.0103		
	CORMORANT	STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OCTACHLOROSTYRENE

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							* *
HALFMOON	GREAT BLACK	N			1			
ISLAND	BACKED GULL	MEAN STD			0.023			
	HERRING	N			1			
	GULL	MEAN STD			ND			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			ND			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0022			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	0.0107	0.0072	ND	ND	ND	0.004
AFRICA ROCK	DOUBLE-	N		100000000000000000000000000000000000000		1		
	CRESTED CORMORANT	MEAN STD				0.0127		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY GULL ISLAND	SPECIES HERRING	N	1	1	12	1	1	-
GOLL IOLAND	GULL	MEAN STD	ND	ND	0.0074	ND	ND	0.004
GARY, INDIANA	HERRING	N	1		2024102000			
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	ND	ND		ND		
BIG SISTER	HERRING	N	1	13	- 1	1	1	1
ISLAND	GULL	MEAN STD	ND	ND		ND	ND	0.002

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0.0071		
	CORMORANT	STD			250.2500		
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	0.0065	ND	ND	ND	0.002
		STD					
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	0.0097	ND	ND	1	0.002
		STD					
	RING-BILLED	N			- 1	1	
	GULL	MEAN			1	ND	
		STD				000000	
SILVER ISLET	HERRING	N			- 1	1	
	GULL	MEAN				ND	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB: 1260

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY STRACHAN ISLAND	SPECIES DOUBLE- CRESTED CORMORANT	N MEAN STD			4.8709		
	HERRING GULL	N MEAN STD	1 8.2893	9.2519	1 8.0301	1 8.184	6.7273
	RING-BILLED GULL	N MEAN STD		0.3938		0.3558	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	9.172	8.5821	6.9699	6.2562	7.0056
		STD					
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN			5.4733		
	CORMORANT	STD			A 7524 A A A A A A A A A A A A A A A A A A A		
	GREAT BLACK-	N	1	2			
	BACKED GULL	50%	23.8573	20.2936			
	SHOWER GEST	STD	20.001.0	0.2925			
	HERRING	N	1	1			
	GULL	MEAN	8.8672	11.6604			
		STD	-12-7-	1,00000			
LITTLE GALLOO	DOUBLE-	N			1		
SLAND	CRESTED	MEAN			3.1868		
15-4015	CORMORANT	STD			12/11/2/2/2		
	GREAT BLACK-		1	1			
	BACKED GULL		31.4041	33.0507			
		STD		4-125-1			
	HERRING	N	1	1			
	GULL	MEAN	10.4712	13.5744			
		STD	0.74.00.000	0.0000000000000000000000000000000000000		1	
GULL ISLAND,	GREAT BLACK-	100 pt 10	1				
PRESQU'ILE	BACKED GULL	3335	37.27				
PROVINCIAL		STD	ZV.ZV				
PARK	HERRING	N	1			- 1	
	GULL	MEAN	11.3224				
		STD					
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	9.6681	12.3646	7.2975	8.9991	5.4957
		STD					
HAMILTON	DOUBLE-	N	- 1		1		
HARBOUR	CRESTED	MEAN			7.2915		
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	10.4024	11.0301	4.2468	9.0585	7.1549
		STD			1000		
	RING-BILLED	N		2		1	
	GULL	MEAN		3.0717		0.8942	
		STD				400000	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB: 1260

NIAGARA RIVER			YEAR							
			93	94	95	96	97			
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 7.3865	1 8.8057	1 6.2906	1 5.724	1 2.8535			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	5.7928		6.5658	5.8014	4.5252
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	17.4089	19.9493	22.1866	12.0447	13.32
		STD					
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			15.461		
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		22.2365			
		STD					

DETR	ROIT RIVER	36	YEAR						
			93	94	95	96	97		
COLONY FIGHTING	SPECIES HERRING	N	1	1	1	1	1		
ISLAND	GULL	MEAN STD	16.5004	15.9751	13.5193	11.006	13.8319		
	RING-BILLED GULL	N MEAN STD				1.5328			

LAKE	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GU L L	MEAN	3.9471	4.1587	4.9604	4.6285	3.1049	2.5274
		STD		2.1864				
MAIDEN ISLAND	HERRING	N	1					
	GULL	MEAN	6.7795					
		STD	54589099101215					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER	GULL	MEAN		35.0583	20.0877	11.1221	12.2021	15.1234
ISLAND		STD		22.0241		//		
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN						
		STD						
GULL ISLAND	HERRING	N	0					
	GULL	MEAN			l'			
		STD						
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED	MEAN				4.5111		
	CORMORANT	STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB: 1260

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			1			
ISLAND	BACKED GULL	MEAN STD			15.5004			
	HERRING	N		1	1			
	GULL	MEAN STD			4.8014		Î	
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			6.7188			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			1.3913			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	5.0473	5.2292 2.9725	6.2795	3.6492	5.4325	2.359
AFRICA ROCK	DOUBLE-	N				1		
	CRESTED CORMORANT	MEAN STD				4.7441		

LAKE M	ICHIGAN	T			YEA	R	2411	
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	1:2	1	1	- 1
	GULL	MEAN STD	16.9433	13.4351	16.4035 7.0541	7.6217	8.2296	14.1889
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	17.4076					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	15.4961	11.6999		9.7799		
BIG SISTER	HERRING	N	1	13		1	1	1
ISLAND	GULL	MEAN STD	11.411	8.9391 1.74		9.638	5.8366	8.1895

LAKES	UPERIOR		_		YEAR	1	
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN		- 1	2.5206		
	CORMORANT	STD	310	1			
AGAWA ROCK	HERRING	N	1	1	1:3	1	1
	GULL	MEAN	4.043	4.6604	4.1722	4.6681	1.9493
2		STD	SYSOMATI		1.8529		
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	8.7734	6.4497	5.014		4.1951
		STD		V64036 FFM P4514F.	1.8313		
	RING-BILLED	N	3			1	
	GULL	MEAN				1.7427	
		STD					
SILVER ISLET	HERRING	N				1	
Company of the Authorities of the Company of the Co	GULL	MEAN				4.2872	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB: 1254-1260

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES	1,00					
STRACHAN	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN		1	8.6261	- 1	
	CORMORANT	STD				- 1	
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	18.809	19.9973	16.2863	16.9023	13.9758
	RING-BILLED	N		1		1	
	GULL	MEAN STD		0.9652		0.9178	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	23.3367	19.9495	14.7552	13.9862	14.997
		STD	SUCCESSION	PORTON COMMON		11/2/11/06/91/2/9	
PIGEON ISLAND	DOUBLE-	N			1		
	CRESTED	MEAN		1	9.6393		
	CORMORANT	STD					×
	GREAT BLACK-	N	1	2			
	BACKED GULL		48.6826	40.4849	- 1		
		STD		2.1788			
	HERRING	N	1	1	1		
	GULL	MEAN	21.5161	26.6913			
		STD	SEATHER CONTROL	/SUSCENIES COLORS			
LITTLE GALLOO	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			6.1069		
	CORMORANT	STD			540-E34,425-64C5		
	GREAT BLACK-	N	1	1			
	BACKED GULL	\$25,000 FB 100 C	60.5095	62.9434			
	HERRING	STD					
	HERRING	N	1	1			
	GULL	MEAN	23.584	29.2399			
OULL TOLAND	ODEAT DI AOK	STD	8				
GULL ISLAND,	GREAT BLACK-		1	1			
PRESQU'ILE	BACKED GULL		79.2119				
PROVINCIAL	LIEDDING	STD					
PARK	HERRING GULL	N	00.000				
	GULL	MEAN	23.836				
LESLIE STREET	HERRING	STD	4	- 4	:		
SPIT	GULL	MEAN	18.7803	19.5165	12.3745	18.2558	10.6616
SFII	GULL	STD	10.7003	19.5105	12.5745	10.2556	10.0010
HAMILTON	DOUBLE-	N					
HARBOUR	CRESTED	MEAN			13.2041		
HANDOUN	CORMORANT	STD			13.2041		
	HERRING	N			4		
	GULL	MEAN	21.3611	21.0408	9.7111	17.7518	12.7216
	GOLL	STD	21.3011	21,0408	9.7111	17.7518	12.7216
	RING-BILLED	N		2		1	
	GULL	MEAN		5.7198		2.0137	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB: 1254-1260

NIAGAR	YEAR							
		93	94	95	96	97		
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 14.6521	1 14.5571	1 11.0387	1 11.2764	1 5.1588	

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES			-			
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	11.1159		11.0278	10.0212	7.6467
LIGHTHOUSE		STD	1000000	4			
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	32.255	34.7128	36.1196	21.0039	19.51
		STD				25-1 X-412-7-511	
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN		- 1	20.8285		
	CORMORANT	STD			V-25-21-0-2-1-1-1-1		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		37.8529			
		STD					

DETE	ROIT RIVER		YEAR							
		93	94	95	96	97				
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	1 26.7964	1 25.3828	1 20.7335	1 17.3626	19.6114			
	RING-BILLED GULL	N MEAN STD				2.7397				

LAKE	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							70.00
CHANTRY	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	10.0505	9.7176 5.8754	8.2551	9.5022	7.2977	5.4788
MAIDEN ISLAND	HERRING	N	1					
	GULL	MEAN STD	17.9956					
CHANNEL	HERRING	N		13	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD		86.0517 51.6295	47.4151	24.6275	28.4149	32.5213
DUCK ISLAND	HERRING	N	0	5.500 CANADA				
	GULL	MEAN STD	12					
GULL ISLAND	HERRING	N	0					
	GULL	MEAN STD						
WALLIS	DOUBLE-	N				1		
ROCKS	CRESTED CORMORANT	MEAN STD				8,5324		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB: 1254-1260

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	· N			1	1		
ISLAND	BACKED GULL	MEAN STD			33.7786			
	HERRING	N	1		1	1		
	GULL	MEAN STD			10.0895			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			14.8221			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			2.5174			
DOUBLE	HERRING	N	1	10	1	1	1	1
ISLAND	GULL	MEAN STD	12.8246	12.1767 6.6934	14.1528	8.4095	12.7966	5.5758
AFRICA ROCK	DOUBLE-	N			- 1	1		
	CRESTED	MEAN				8.9277		
	CORMORANT	STD						

LAKE M	ICHIGAN			No.	YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	12	1	1	1
	GULL	MEAN STD	39.4796	37.8229	38.4749 18.0638	20.0082	22.7412	41.7763
GARY, INDIANA	HERRING	N	1	- 1				
	GULL	MEAN	39.9249					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	31.4744	26.0042		22.9844		
BIG SISTER	HERRING	N	1	13	Ī	1	1	1
ISLAND	GULL	MEAN STD	28.0161	23.1925 5.1023		26.556	16.8285	24.8698

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN	1	- 1	5.4199		
25-7-10 M 25	CORMORANT	STD					
AGAWA ROCK	HERRING	N	1	1	13	1	1
	GULL	MEAN	10.9745	11.2955	10.1488	12.6327	5.4368
		STD	220000000000000000000000000000000000000		4.6858	Participant Court of Court	
GRANITE	HERRING	N	1	1	13		1
ISLAND	GULL	MEAN	20.3893	13.3169	12.1882		11.1699
		STD		l X	3.8763		
	RING-BILLED	N				1	
10	GULL	MEAN				5.2055	
		STD	1			0-0	
SILVER ISLET	HERRING	N			- 1	1	
	GULL	MEAN			- 1	9.412	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* TOTAL PCB CONGENERS

ST. LAW	RENCE RIVER		YEAR						
			93	94	95	96	97 A	97 ⁸	
COLONY	SPECIES								
STRACHAN	DOUBLE-	N			1				
ISLAND	CRESTED	MEAN			4.79648				
	CORMORANT	STD		_					
	HERRING	N	1	1	1	1	1	1	
	GULL	MEAN STD	9.6923	10.7764	8.2678	9.7064	8.461	9,531	
	RING-BILLED	N		1		1			
	GULL	MEAN STD		0.4606		0.5498			

SPECIES HERRING		93	94	95	96	07 A	
				90	90	97 A	97 ⁸
HERRING							
	N	1	1	1	1	1	1
GULL	MEAN	10.3326	9.1722	6.9411	7.1097	7.659	8.369
	STD	100000	- 95		7		
DOUBLE-	N		1	1		- 1	
CRESTED	MEAN			4.7714			
CORMORANT	STD					1	
GREAT BLACK-	N	1	2				
BACKED GULL	MEAN	22.6768	18.4868	TY.			
	STD	111111111111111111111111111111111111111	1.2851				
HERRING	N	1	1		- 1		
GULL	MEAN	10.1052	12.1533				
	STD						
DOUBLE-	N		- 1	1			
CRESTED	MEAN			3.1171			
CORMORANT	STD			. 5.5 44.5.			
		1	1				
BACKED GULL	MEAN	28.8328	29.6779	1			
	STD						
HERRING	N	1	1	14			
GULL		11.1744	13.4863			1	
				- 4			
	5.2.1	1					
BACKED GULL		36.8039		1			
	1.5 (5.0)	1		1			
GULL	THE RESERVE STATE OF THE RESERVE AS A SECOND	10.9604		11			
	7.1			- 2	-		
		2 4440	1	5 0047	0.0400	5 077	5 705
GULL		8.4112	9.1599	5.6317	8.9432	5.277	5.765
DOUD! F	and the second						
	12.35			0.0000			
	ATTRACTOR OF A STATE OF			6.6009			
	- STATES	100				4	
	0.00	0.4000	0.746	1 1050	0.001	6.500	7 4 4 4
GULL	7101	9,4083	9.746	4.1956	8.691	6.583	7.111
DINO DILLES	100				- 3		
	1						
GULL			2./318		1.1866		
COURT TO COURT TO COURT	CRESTED CORMORANT GREAT BLACK- BACKED GULL HERRING COUBLE- CRESTED CORMORANT GREAT BLACK- BACKED GULL HERRING	COUBLE- CRESTED CRESTED CREAT BLACK- BACKED GULL MEAN STD CRESTED COUBLE- CRESTED CORMORANT COUBLE- CRESTED CORMORANT COUBLE- CRESTED CORMORANT CORMORANT	COUBLE- CRESTED CORMORANT STD GREAT BLACK- BACKED GULL MEAN COUBLE- CRESTED COUBLE- CRESTED CORMORANT CORM	OUBLE- CRESTED MEAN CORMORANT STD GREAT BLACK- N 1 2 BACKED GULL MEAN 22.6768 18.4868 STD 1.2851 HERRING N 1 1 GULL MEAN 10.1052 12.1533 STD OUBLE- N CRESTED MEAN CORMORANT STD GREAT BLACK- N 1 1 BACKED GULL MEAN 28.8328 29.6779 STD HERRING N 1 1 BACKED GULL MEAN 36.8039 STD HERRING	DOUBLE- N	DOUBLE- N	DOUBLE- N MEAN

A Based on 42 congeners; B Based on 59 congeners. See page 11 for details.

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED*
TOTAL PCB CONGENERS

NIAGAR	NIAGARA RIVER			YEAR							
			93 94 95 96 97 ^A								
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 6.7888	1 6.8017	1 5.1447	5.4797	2.692	1 2.946			

LAKE	ERIE		YEAR							
			93	94	95	96	97 ^A	97 ^B		
COLONY	SPECIES									
PORT	HERRING	N	1		1	1	1	1		
COLBORNE LIGHTHOUSE	GULL	MEAN STD	5.1087		5.3081	5.1733	4.021	4.368		
MIDDLE ISLAND	HERRING	N	1	1	1	1	1	1		
	GULL	MEAN STD	14.4285	16.3372	17.6795	11.1902	10.254	11.04		
EAST SISTER	DOUBLE-	N		1	1	1	1			
ISLAND	CRESTED CORMORANT	MEAN STD		1	11.3499					
MIDDLE SISTER	HERRING	N		1		1	1			
ISLAND	GULL	MEAN STD		19.1234						

DE	FROIT RIVER				YEA	R		
			93	94	95	96	97 ^A	97 ^B
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED	N MEAN STD N	1 13.1941	1 12.4041	10.2019	9.3772 1	1 10.416	1 11.268
	GULL	MEAN STD				1.6624		

LAKE	HURON					YEAR			
			93	93	94	95	96	97 ^A	97 B
COLONY	SPECIES					- 1			
CHANTRY	HERRING	N	1	10	1	1	1	1	1
ISLAND	GULL	MEAN STD	4.6309	4.6876 2.5051	3.881	4.4415	3.7908	2.859	3.172
MAIDEN ISLAND	HERRING	N	1			- 1	1	- 1	
	GULL	MEAN STD	7.9089						
CHANNEL	HERRING	N		13	1	1	1	1	1
SHELTER	GULL	MEAN STD		43.8245 25.9115	25.1145	13.3258	16.9642	19.425	21.406
DUCK ISLAND	HERRING GULL	N MEAN STD	0						
GULL ISLAND	HERRING GULL	N MEAN STD	0						
WALLIS	DOUBLE-	N				1			
ROCKS	CRESTED CORMORANT	MEAN STD				4.0141			

A Based on 42 congeners; B Based on 59 congeners. See page 11 for details.

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED*
TOTAL PCB CONGENERS

LAKE HUR	ON (CONT.)					YEAR			
			93	93	94	95	96	97 A	97 ^B
COLONY	SPECIES								
HALFMOON	GREAT BLACK	· N	8	1	1			- 1	
ISLAND	BACKED GULL	MEAN STD			15.6438		ĺ	ŀ	
	HERRING	N			1				
	GULL	MEAN STD			4.3586				
MOUSE ISLAND	HERRING	N			1			1	
	GULL	MEAN STD			6.6835				
GERTRUDE	RING-BILLED	N			1		1		
ISLAND	GULL	MEAN STD			1.2017				
DOUBLE	HERRING	N	1	10	1	- 1	1	1	1
ISLAND	GULL	MEAN STD	5.6101	5.4772 2.8403	6.2061	3.5978	5.9045	2.843	3.131
AFRICA ROCK	DOUBLE-	N				1			
	CRESTED CORMORANT	MEAN STD				4.2534			

LAKE M	ICHIGAN					YEAR			
			93	94	94	95	96	97 A	97 ^B
COLONY	SPECIES	=======			N.	2			
GULL ISLAND	HERRING	N	1	1	12	1	1	1	1
	GULL	MEAN STD	17.582	16.2357	17.0556 7.7262	8.4418	10.429	20.043	21.884
GARY, INDIANA	HERRING	N	1		30.00.00.00			- 1	
	GULL	MEAN STD	17.7352						
EAST CHICAGO	HERRING	N	1	1		1			
	GULL	MEAN STD	15.8706	12.9526		11.5159			
BIG SISTER	HERRING	N	1	13		1	1	1	1
ISLAND	GULL	MEAN	13.6776	9.7968		12.6348	7.8404	13.251	14.491
		STD		1.9205		8		-	713

LAKES	UPERIOR		1.11		YEA	R		Party.
in the second			93	94	95	96	97 A	97 ^B
COLONY	SPECIES							3
STEAMBOAT	DOUBLE-	N			1			
ISLAND	CRESTED	MEAN			2.5925			
	CORMORANT	STD					1	
AGAWA ROCK	HERRING	N	1	1	13	1	1	1
	GULL	MEAN	4.7602	5.2016	4.2127	5.5554	2.621	2.876
		STD			2.0372			
GRANITE	HERRING	N	1	1	13		1	1
ISLAND	GULL	MEAN	9.2444	6.2052	5.3199		5.354	5.835
19		STD			1.6608		1	
	RING-BILLED	N				1		
	GULL	MEAN				2.7112		
46.7		STD				-00000mmmm-360		
SILVER ISLET	HERRING	N				1		
	GULL	MEAN				4.4175		
100		STD						

Based on 42 congeners; Based on 59 congeners. See page 11 for details.

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 37 3.4.4'-TRICHLOROBIPHENYL

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES	ara.			- 10		
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN		- 1			
	CORMORANT	STD		1	1		
	HERRING	N	0	1	1	1	1
	GULL	MEAN STD		0.0001	<0.0001	<0.0001	<0.0001
	RING-BILLED	N		0		0	
	GULL	MEAN STD			303		

LAKE O	NTARIO		YEAR						
			93	94	95	96	97		
COLONY	SPECIES								
SNAKE ISLAND	HERRING	N	0	1	1	1	1		
	GULL	MEAN		< 0.0001	< 0.0001	< 0.0001	< 0.0001		
		STD							
PIGEON ISLAND	DOUBLE-	N			0	- 1			
	CRESTED	MEAN				1			
	CORMORANT	STD	1	1	- 1	- 1			
	GREAT BLACK-		0	0	- 1				
	BACKED GULL	MEAN			1	- 1			
		STD			- 1	- 1			
	HERRING	N	0	1		- 1			
	GULL	MEAN		< 0.0001	1	- 1			
		STD	1						
LITTLE GALLOO		N			0				
ISLAND	CRESTED	MEAN				- 1			
	CORMORANT	STD		1000	1	- 1			
	GREAT BLACK-	100001	0	0		1			
	BACKED GULL			1					
		STD		9		Į.			
	HERRING	N	0	1					
	GULL	MEAN		<0.0001					
OLUL IOLAND	ODEAT DI AOK	STD		- 1					
GULL ISLAND, PRESQU'ILE	GREAT BLACK-		0						
PROVINCIAL	BACKED GULL	THE STREET STREET			- 1				
PARK	HERRING	STD	0	1	- 1				
FARK	GULL	MEAN	0						
	GOLL	STD							
LESLIE STREET	HERRING	N	o	1	4	- 1	1		
SPIT	GULL	MEAN	۷	< 0.0001	<0.0001	< 0.0001	<0.0001		
0	GOLL	STD		Q.0001	C0.000 II	CO.0001	\0.0001		
HAMILTON	DOUBLE-	N	Ì	1	0				
HARBOUR	CRESTED	MEAN							
THE DOOL	CORMORANT	STD				- 1			
	HERRING	N	0	1	1	1	1		
	GULL	MEAN	3	<0.0001	<0.0001	<0.0001	<0.0001		
		STD		10.0001	10.000 11	30.0001	~U.UUU1		
	RING-BILLED	N		1		0			
	GULL	MEAN		<0.0001					
		STD		30.0001					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 37 3,4,4'-TRICHLOROBIPHENYL

NIAGAR	A RIVER				YEAR		
			93	94	95	96	97
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	o	1 <0.0001	1 (<0.0001)	1 <0.0001	1 <0.0001

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES		1 - 4			E A	
PORT	HERRING	N	0		1	1	1
COLBORNE	GULL	MEAN			< 0.0001	< 0.0001	< 0.0001
LIGHTHOUSE		STD			-		
MIDDLE ISLAND	HERRING	N	0	1	1	1	1
	GULL	MEAN		< 0.0001	< 0.0001	< 0.0001	< 0.0001
		STD		1000			
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD			- 1		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		0.0001			
		STD					

DETR	ROIT RIVER		YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 <0.0001	1 <0.0001	1 <0.0001	<0.0001		
	RING-BILLED GULL	N MEAN STD				0			

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES						14.	
CHANTRY	HERRING	N	0	0	1	1	1	1
ISLAND	GULL	MEAN STD			0.0001	<0.0001	<0.0001	<0.0001
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					
CHANNEL	HERRING	N		0	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD			<0.0001	<0.0001	<0.0001	<0.0001
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0					
6	GULL	MEAN STD						
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED CORMORANT	MEAN STD				A1.5		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 37 3.4.4'-TRICHLOROBIPHENYL

LAKE HUR	ON (CONT.)		- The voice - Principles	ave	YE	AR		
	0.025		93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N		1	0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N	1		1			
	GULL	MEAN STD			<0.0001			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			<0.0001			
DOUBLE	HERRING	N	0	0	1	1	1	1
ISLAND	GULL	MEAN STD		76	<0.0001	(<0.0001)	(<0.0001)	<0.0001
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED	MEAN				0.465		
	CORMORANT	STD						

LAKE M	ICHIGAN				YE	AR		
			93	94	94	95	96	97
COLONY	SPECIES			4.50 SS 4.				
GULL ISLAND	HERRING	N	0	1	0	1	1	1
	GULL	MEAN STD		<0.0001		(<0.0001)	<0.0001	<0.0001
GARY, INDIANA	HERRING	N	1	1				
	GULL	MEAN STD	0.0001					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	<0.0001	<0.0001		<0.0001		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	<0.0001	0.0001		<0.0001	<0.0001	<0.0001

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES			818-38			
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN		- 1	100		
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	1	1	1	
	GULL	MEAN		< 0.0001	< 0.0001	< 0.0001	< 0.0001
		STD		A WARREN PROPERTY	Sec. Service A.		
GRANITE	HERRING	N	o	1	1		1
ISLAND	GULL	MEAN		< 0.0001	< 0.0001	- Y	< 0.0001
		STD					
	RING-BILLED	N				0	
	GULL	MEAN				-	
		STD				1	
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				ND	
		STD				20/53/75	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 77 3,3',4,4'-TRETRACHLOROBIPHENYL

ST. LAWI	RENCE RIVER		YEAR							
			93	94	95	96	97			
COLONY STRACHAN ISLAND	SPECIES DOUBLE- CRESTED	N MEAN			0					
	CORMORANT HERRING GULL	STD N MEAN STD	0	0.0006	0.0002	0.0003	0.0003			
	RING-BILLED GULL	N MEAN STD		0		0				

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	0	1	1	1	1
	GULL	MEAN		0.0002	0.0002	0.0006	0.0001
		STD		7/8/3/19/0041	ALD SHALL	0.000.000.000.000	
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN			-		
	CORMORANT	STD					
	GREAT BLACK-		0	0			
	BACKED GULL	MEAN					
		STD	1				
	HERRING	N	0	1			
	GULL	MEAN		0.0002			
		STD		7.5-5-5			
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-		o	0		1	
	BACKED GULL					1	
		STD					
	HERRING	N	0	1			
	GULL	MEAN		0.0009			
		STD		3,13,5.5.5		- 1	
GULL ISLAND,	GREAT BLACK-		0				
PRESQUILE	BACKED GULL	The second secon				1	
PROVINCIAL		STD					
PARK	HERRING	N	0				
	GULL	MEAN					
		STD	1				
LESLIE STREET	HERRING	N	0	1	1	1	1
SPIT	GULL	MEAN		0.0001	0.0001	0.0002	0.0001
		STD	1				
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN				1	
	CORMORANT	STD					
	HERRING	N	0	1	1	1	1
	GULL	MEAN		0.0002	0.0002	0.0001	0.0001
		STD					
	RING-BILLED	N		1		0	
	GULL	MEAN		0.0002			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in ρg/g; all others in μg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 77 3,3',4,4'-TRETRACHLOROBIPHENYL

NIAGARA RIVER			YEAR							
			93	94	95	96	97			
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0	0.0001	0.0002	0.0002	0.0002			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	0		1	1	1
COLBORNE	GULL	MEAN			0.0002	0.0002	0.0003
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	0	1	1	1	1
	GULL	MEAN		0.0003	0.0007	0.0006	0.0004
		STD					
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		0.0002			
		STD		See Process			

DETF	DETROIT RIVER			YEAR							
			93	94	95	96	97				
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED	N MEAN STD N	0	0.0002	0.0002	0.0002 0	0.0001				
	GULL	MEAN STD									

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES	_ F						
CHANTRY	HERRING	N	0	0	1	1	1	1
ISLAND	GULL	MEAN STD			0.0001	0.1873	0.0007	0.0003
MAIDEN ISLAND	HERRING	N	0					
	GULL	MEAN STD						
CHANNEL	HERRING	N	l la	0	1	1	1	1
SHELTER	GULL	MEAN STD			0.0004	0.0005	0.0007	0.0004
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0					
	GULL	MEAN STD						
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 77 3,3',4,4'-TRETRACHLOROBIPHENYL

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			0.0002			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0001			
DOUBLE	HERRING	N	0	0	1	-1	1	1
ISLAND	GULL	MEAN STD			0.0001	0.0002	0.0002	0.0002
AFRICA ROCK	DOUBLE-	N				0		
C 43 10 10 10 10 10 10 10 10 10 10 10 10 10	CRESTED CORMORANT	MEAN STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	0	1	0	1	1	1
	GULL	MEAN STD		0.0007		0.0003	0.0013	0.0003
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	0.0005					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	0.0005	0.0006		0.0007		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	0.0012	0.0006		0.0013	0.0012	0.0003

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	1	1	1	1
Proc. 2000 St. Inches Co. Inches	GULL	MEAN		0.0001	0.0001	0.0003	0.0001
		STD					
GRANITE	HERRING	N	0	1	1		1
ISLAND	GULL	MEAN		0.0002	0.0001		0.0001
		STD					
	RING-BILLED	N				0	
	GULL	MEAN				-	
	##A-\$P#05.553C	STD		10			
SILVER ISLET	HERRING	N				1	
AN OLIVE CHAIR STATE OF	GULL	MEAN				0.0002	
	X 24-01	STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 81 3.4.4'.5-TRETRACHLOROBIPHENYL

ST. LAWI	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N		1	0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	0	0	1	1	1
	GULL	MEAN	3		< 0.0001	0.0001	0.0001
		STD			De Chicago	10000	
	RING-BILLED	N		0		0	
	GULL	MEAN				-	
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN		,	0.0001	0.0003	0.0001
		STD					
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN		1			
	CORMORANT	STD					
	GREAT BLACK-	N	0	0		1	
	BACKED GULL	MEAN					
		STD					
	HERRING	N	0	0			
	GULL	MEAN					
		STD					
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN	-	-			
		STD					
	HERRING	N	0	0			
	GULL	MEAN					
		STD					
GULL ISLAND,	GREAT BLACK-		0				
PRESQU'ILE	BACKED GULL						
PROVINCIAL		STD				1	
PARK	HERRING	N	0				
	GULL	MEAN		1			
	at Visual and Anti-Service School	STD					
LESLIE STREET	HERRING	N	0	0	1	1	1
SPIT	GULL	MEAN		1	<0.0001	0.0001	0.0001
	22/2/2	STD					
HAMILTON	DOUBLE-	N			0	1	
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD			19		
	HERRING	N	0	0	1	1	1
	GULL	MEAN			0.0001	0.0001	< 0.0001
		STD				432	
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g, all others in μg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 81 3,4,4',5-TRETRACHLOROBIPHENYL

NIAGAR	NIAGARA RIVER				YEAR							
Action (Artista) (Chan Collabora Science)			93	94	95	96	97					
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0	0	<0.0001	0.0001	0.0001					

LAKE	ERIE	9.00			YEAR		
			93	94	95	96	97
COLONY	SPECIES					50 8 -	
PORT	HERRING	N	0		1	1	1
COLBORNE	GULL	MEAN			< 0.0001	0.0001	0.0001
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	0	0	1	1	1
Processor Commence of the Comm	GULL	MEAN		-	0.0002	0.0002	0.0002
		STD			9		
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		0			
ISLAND	GULL	MEAN					
		STD					

DETE	ROIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	0	0.0001	0.0001	0.0001			
	RING-BILLED GULL	N MEAN STD				O				

LAKE	IURON				YEA	R		
Water Comments			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD			360	0.0001	0.0002	0.0001
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					
CHANNEL	HERRING	N	4	0	0	1	1	1
SHELTER ISLAND	GULL	MEAN STD				0.0002	0.0004	0.0002
DUCK ISLAND	HERRING GULL	N MEAN STD	0	2.			100	
GULL ISLAND	HERRING	N	0					
	GULL	MEAN STD	2					
WALLIS	DOUBLE-	N				0	4	
ROCKS	CRESTED	MEAN						
3 14	CORMORANT	STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 81 3.4.4'.5-TRETRACHLOROBIPHENYL

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N	k		0		- 1	
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			0			
	GULL	MEAN STD						
GERTRUDE	RING-BILLED	N		- 1	0			
ISLAND	GULL	MEAN STD						
DOUBLE	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				0.0001	0.0002	0.0001
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED	MEAN						
	CORMORANT	STD						

LAKE M	ICHIGAN				YEA	R		
	(0)		93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	0	0	0	1	1	- 1
	GULL	MEAN STD	*****	450.2	35//	0.0002	0.0003	0.0002
GARY, INDIANA	HERRING	N	0	1				
	GULL	MEAN		1	1		1	
		STD						
EAST CHICAGO	HERRING	N	0	1		1	1	
	GULL	MEAN		0.0002		0.0003	- 1	
		STD						
BIG SISTER	HERRING	N	0	0		1	1	1
ISLAND	GULL	MEAN STD				0.0007	0.0004	0.0002

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN		- 1			
	CORMORANT	STD	Į.			1	
AGAWA ROCK	HERRING	N	0	0	1	1	1
	GULL	MEAN			0.0001	0.0002	0.0001
		STD					
GRANITE	HERRING	N	0	0	1		1
ISLAND	GULL	MEAN		1000	0.0002		0.0001
		STD				1	
	RING-BILLED	N				0	
	GULL	MEAN	W				
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				0.0002	
		STD				C.Manuel Martin	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds; ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

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TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 126 3,3',4,5,5'-PENTACHLOROBIPHENYL

ST. LAW	RENCE RIVER	800	Where to do one or		YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N	1		О		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	0	1	1	1	1
	GULL	MEAN		0.0011	0.0020	0.0017	0.0015
		STD					
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	o	1	1	1	1
	GULL	MEAN		0.0012	0.0025	0.0024	0.0013
		STD		200 1/200 20 40 10 10	SERVEDANS		
PIGEON ISLAND	DOUBLE-	N			О		
	CRESTED	MEAN			A:		
	CORMORANT	STD					
	GREAT BLACK-	N	o	0			
	BACKED GULL	MEAN	87				
		STD	1				
	HERRING	N	o	1			
	GULL	MEAN		0.0014			
		STD		509/4504636			
LITTLE GALLOO	DOUBLE-	N			0	f	
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-	N	o	0			
	BACKED GULL	MEAN					
		STD					
	HERRING	N	0	1			
	GULL	MEAN	54.	0.0062			
		STD					
GULL ISLAND,	GREAT BLACK-		O				
PRESQU'ILE	BACKED GULL	MEAN					
PROVINCIAL		STD			1		
PARK	HERRING	N	0				
	GULL	MEAN		- 1			
		STD	1				
LESLIE STREET		N	0	1	1	1	1
SPIT	GULL	MEAN		0.0011	0.0017	0.0021	0.0014
		STD	4				
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD		11740	0.40		179
	HERRING	N	0	1	1	1	1
	GULL	MEAN		0.0008	0.0022	0.002	0.0012
14.5	NEWSON S. E. S.	STD	1			100	
	RING-BILLED	N		1		0	
	GULL	MEAN		0.0002			
i v		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 126 3,3',4,5,5'-PENTACHLOROBIPHENYL

NIAGAR	NIAGARA RIVER			YEAR						
			93 94 95 96							
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0	0.0007	0.0014	0.0013	0.0009			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES		10000000				
PORT	HERRING	N	0		1	1	1
COLBORNE	GULL	MEAN			0.0012	0.0011	0.001
LIGHTHOUSE		STD	4				
MIDDLE ISLAND	HERRING	N	0	1	1	1	1
	GULL	MEAN		0.0017	0.0045	0.0025	0.0024
		STD	1	\$200 E-200		44070.339960	
EAST SISTER	DOUBLE-	N			1		
ISLAND	CRESTED	MEAN			0	1	
	CORMORANT	STD				1	
MIDDLE SISTER	HERRING	N		1	1		
ISLAND	GULL	MEAN		0.0013			
		STD					

DETF	ROIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING	SPECIES HERRING	N	0	1	1	1	1			
ISLAND	GULL	MEAN STD		0.0008	0.0022	0.0015	0.0015			
	RING-BILLED GULL	N MEAN STD				0				

LAKE	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	0	0	1	1	1	1
ISLAND	GULL	MEAN STD		16	0.0005	0.0018	0.0014	0.0011
MAIDEN ISLAND	HERRING	N	ol					
	GULL	MEAN STD						
CHANNEL	HERRING	N		0	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD			0.0029	0.0069	0.0048	0.0038
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0					
	GULL	MEAN STD						
WALLIS	DOUBLE-	N	1	1		0		
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 126 3,3',4,5,5'-PENTACHLOROBIPHENYL

LAKE HUR	ON (CONT.)				YEA	R		The special
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			0		1	
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			0.0009			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			0.0001			
DOUBLE	HERRING	N	0	0	1	1	1	1
ISLAND	GULL	MEAN STD			0.0011	0.0017	0.0022	0.0017
AFRICA ROCK	DOUBLE- CRESTED CORMORANT	N MEAN STD	A			0		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	0	1	0	1	1	1
	GULL	MEAN STD		0.0037		0.0051	0.0051	0.0033
GARY, INDIANA	HERRING	N	1		- 1			
	GULL	MEAN STD	0.0026					
EAST CHICAGO	HERRING	N	1	1		1		
in the second	GULL	MEAN STD	0.0023	0.0047		0.0063		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	0.0022	0.0017		0.0059	0.0034	0.0017

LAKES	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN		1			
	CORMORANT	STD	1,01				
AGAWA ROCK	HERRING	N	0	- 1	1	1	1
	GULL	MEAN		0.0008	0.0022	0.002	0.0017
		STD					
GRANITE	HERRING	N	0	1	1		1
ISLAND	GULL	MEAN		0.0009	0.0025		0,0021
		STD			200		
	RING-BILLED	N				0	
	GULL	MEAN			1	7	
		STD			1		
SILVER ISLET	HERRING	N		- 0		1	
	GULL	MEAN				0.0029	
		STD	1,01			0.0020	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds; ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 169 3.3'.4.4'.5.5'-HEXACHLOROBIPHENYL

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES					-	
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN			l'	- 1	
	CORMORANT	STD					
	HERRING	N	0	1	1	1	1
	GULL	MEAN		0.0001	0.0002	0.0001	0.0001
		STD					
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	0	1	1	1	1
	GULL	MEAN		0.0001	0.0002	0.0002	0.0001
		STD	ſ				
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN					
	CORMORANT	STD		1			
	GREAT BLACK-	N	0	0			
	BACKED GULL					1	
		STD					
	HERRING	N	0	1		J	
	GULL	MEAN		0.0002		1	
		STD					
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN			1		
	CORMORANT	STD	cel	1.00	- 1		
	GREAT BLACK-	25/97/95/2	0	0			
	BACKED GULL						
		STD		5.0			
	HERRING	N	0	1			
	GULL	MEAN		0.0006		- 1	
		STD				J	
GULL ISLAND,	GREAT BLACK-		0				
PRESQU'ILE	BACKED GULL	THE RESERVE AND ADDRESS OF THE PARTY OF THE		1			
PROVINCIAL	HEDDING	STD					
PARK	HERRING	N	0		1		
	GULL	MEAN			- 1		
L COLLE OTDEET	LIEDDING	STD	0		94	940	
LESLIE STREET SPIT	HERRING GULL	N MEAN	U	0.0001	0.0002	0.0002	0.0002
SPII	GULL			0.0001	0.0002	0.0002	0.0002
LIANU TON	DOUBLE	STD					
HAMILTON	DOUBLE-	N			0	1	
HARBOUR	CRESTED	MEAN				1	
	CORMORANT	STD			-		94
	HERRING GULL	N MEAN	0	0.0001	0.0002	0.0002	0.0001
	GULL	TRANSPORT CONTRACTOR		0.0001	0.0002	0.0002	0.0001
	RING-BILLED	STD		ia l		0	
	GULL	MEAN		<0.0001		U	
	GULL			<0.0001			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 169 3,3',4,4',5,5'-HEXACHLOROBIPHENYL

NIAGARA RIVER			YEAR						
			93 94 95 96						
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0	<0.0001	0.0001	0.0001	0.0001		

LAKE	ERIE				YEAR		10.0
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	0		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD			0.0001	0.0001	0.0001
MIDDLE ISLAND	HERRING	N	0	1	1	1	1
	GULL	MEAN STD		0.0002	0.0004	0.0002	0.0003
EAST SISTER	DOUBLE-	N		10	0		
ISLAND	CRESTED	MEAN		- 1	2.75		
	CORMORANT	STD			- 1		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		0.0001			

DETE	DETROIT RIVER			YEAR						
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	0.0001	0.0002	0.0002	0.0002			
	GULL GULL	MEAN STD				O				

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	0	0	1	1	- 1	1
ISLAND	GULL	MEAN STD			0.0001	0.0003	0.0002	0.0002
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					
CHANNEL	HERRING	N		0	- 1	1	- 1	1
SHELTER	GULL	MEAN STD			0.0004	0.0007	0.0005	0.0006
DUCK ISLAND	HERRING GULL	N MEAN STD	0				-	
GULL ISLAND	HERRING GULL	N MEAN STD	0					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 169 3,3',4,4',5,5'-HEXACHLOROBIPHENYL

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES	30-38-010						
HALFMOON	GREAT BLACK	- N			0	1	- 1	
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N	1		0		- 1	
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N		1	1	1	- 1	
40	GULL	MEAN STD			0.0001			
GERTRUDE	RING-BILLED	N	1	- 1	1		1	
ISLAND	GULL	MEAN STD			<0.0001			
DOUBLE	HERRING	N	0	0	1	1	1	1
ISLAND	GULL	MEAN STD			0.0002	0.0002	0.0003	0.0002
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED CORMORANT	MEAN STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	0	1	0	1	1	1
	GULL	MEAN STD		0.0004		0.0006	0.0006	0.0004
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	0.0003					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	0.0003	0.0006		0.0007		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	0.0002	0.0002		0.0006	0.0003	0.0002

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N	1		0	- 1	
ISLAND	CRESTED	MEAN		ľ			
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	o	1	1	1	1
	GULL	MEAN	~	0.0001	0.0004	0.0003	0.0002
		STD					
GRANITE	HERRING	N	0	1	1		1
ISLAND	GULL	MEAN		0.0001	0.0003		0.0003
		STD		49802000000		- 1	1.000.000.000
	RING-BILLED	N				ol	
	GULL	MEAN					
		STD					
SILVER ISLET	HERRING	N				- 1	
	GULL	MEAN				0.0003	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 189 2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	0	0	1	1	1
	GULL	MEAN			< 0.0001	< 0.0001	< 0.0001
		STD					
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN			< 0.0001	< 0.0001	< 0.0001
		STD			CO JOSEP JESON VEDS	5.45000443340	
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN					
		STD					
	HERRING	N	0	0			
	GULL	MEAN					
		STD					
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN			250		
	CORMORANT	STD			- 1		
	GREAT BLACK-		0	0			
	BACKED GULL		- 12				
		STD					
	HERRING	N	0	0			
	GULL	MEAN	-72				
		STD					
GULL ISLAND,	GREAT BLACK-	N	0				
PRESQU'ILE	BACKED GULL	MEAN					
PROVINCIAL		STD					
PARK	HERRING	N	0				
	GULL	MEAN					
		STD					
LESLIE STREET	HERRING	N	0	0	1	1	1
SPIT	GULL	MEAN			< 0.0001	< 0.0001	< 0.0001
		STD			0.00		
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN				1	
	CORMORANT	STD					
	HERRING	N	0	0	1	1	1
	GULL	MEAN			< 0.0001	< 0.0001	0.0001
		STD					
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in ρg/g; all others in μg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 189 2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL

NIAGAR	A RIVER		YEAR							
			93	96	97					
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	. 0	0	<0.0001	1 <0.0001	<0.0001			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	0		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	- 14		<0.0001	<0.0001	<0.0001
MIDDLE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN STD			<0.0001	<0.0001	0.0001
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD		- 2.0			
MIDDLE SISTER	HERRING	N		0			
ISLAND	GULL	MEAN STD					

DETE	DETROIT RIVER			YEAR							
			93	94	95	96	97				
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	0	0.0001	<0.0001	0.0001				
	RING-BILLED GULL	N MEAN STD				0					

LAKE	IURON				YEA	R	-	
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				<0.0001	<0.0001	<0.0001
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					
CHANNEL	HERRING	N		0	0	1	1	1
SHELTER ISLAND	GULL	MEAN STD		- 11		0.0001	0.0001	0.0001
DUCK ISLAND	HERRING	N	0					
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0					
	GULL	MEAN STD						
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* PCB 189 2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL

LAKE HUR	ON (CONT.)				YEA	3		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			0			
ISLAND	BACKED GULL	MEAN STD	1		~			
	HERRING	N			0			
	GULL	MEAN STD			7,40			20
MOUSE ISLAND	HERRING	N			0			
	GULL	MEAN STD						
GERTRUDE	RING-BILLED	N	- 1		0	- 1		
ISLAND	GULL	MEAN STD						
DOUBLE	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				ND	<0.0001	<0.0001
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED	MEAN						
<u> </u>	CORMORANT	STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES						· s	
GULL ISLAND	HERRING	N	o	o	0	1	1	1
	GULL	MEAN STD				<0.0001	<0.0001	<0.0001
GARY, INDIANA	HERRING	N	O					
	GULL	MEAN STD						
EAST CHICAGO	HERRING	N	0	1	1	1		
	GULL	MEAN STD		<0.0001		<0.0001		
BIG SISTER	HERRING	N	0	0		1	1	1
ISLAND	GULL	MEAN STD				<0.0001	<0.0001	<0.0001

LAKE S	UPERIOR		7590		YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N		4	0	1	
ISLAND	CRESTED	MEAN					
	CORMORANT	STD	1	1			
AGAWA ROCK	HERRING	N	О	0	1	1	185
	GULL	MEAN			< 0.0001	< 0.0001	< 0.0001
		STD		391		-2	
GRANITE	HERRING	N	0	0	1		S1 4
ISLAND	GULL	MEAN			< 0.0001		< 0.0001
		STD					
	RING-BILLED	N	1			0	
	GULL	MEAN					
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				< 0.0001	
	LANGE TO STATE OF THE STATE OF	STD				20000000000000000	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 2378-TETRACHLORODIBENZO-p-DIOXIN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N		1	0		
ISLAND	CRESTED	MEAN	1				
	CORMORANT	STD			1	1	
	HERRING	N	1	1	1	1	1
	GULL	MEAN	26.1	39.3	11.25	19.6	10.52
		STD	1				
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	67.4	61.2	30.32	25.75	13.44
		STD					
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN					
	CORMORANT	STD	- 1]			
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN)				
		STD					
	HERRING	N	1	1			
	GULL	MEAN	52.3	71.2	1		
		STD					
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN	1	1	~~		
	CORMORANT	STD				1	
	GREAT BLACK-	N	0	0	- 1		
	BACKED GULL	MEAN					
		STD	- 1		- 1		
	HERRING	N	1	1	1		
	GULL	MEAN	48.7	31.35	1		
		STD			T I		
GULL ISLAND,	GREAT BLACK-		0			1	
PRESQU'ILE	BACKED GULL	MEAN	1		- 1		
PROVINCIAL		STD			- 1	- 1	
PARK	HERRING	N	1				
	GULL	MEAN	53.1				
		STD					
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	18.2	33.8	13.57	26.94	11.89
		STD					
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD		1			
	HERRING	N	1	1	1	1	1
	GULL	MEAN	19	19.4	12.75	17.4	5.43
		STD	1		1		
	RING-BILLED	N		1		0	
	GULL	MEAN	1	13			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 2378-TETRACHLORODIBENZO-p-DIOXIN

NIAGAR	A RIVER		YEAR							
		93 94 95 96					97			
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 10.3	1 27.2	1 5.84	1 12.27	1 5.66			

LAKE	ERIE				YEAR		
		7	93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	9.4		4.89	7.94	3.16
MIDDLE ISLAND	HERRING	N	1	1	1	1	. 1
	GULL	MEAN STD	11.7	17.9	11.11	7.38	6.05
EAST SISTER ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		31.6			

DETR	ROIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 20.9	1 7.83	3.82	4.01			
	GULL GULL	N MEAN STD				0				

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	15.2		16.7	11.55	11.22	6.07
MAIDEN ISLAND	HERRING	N	1					
	GULL	MEAN STD	17.5					
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	56.8		42.2	24.97	29.98	19.56
DUCK ISLAND	HERRING	N	1					
	GULL	MEAN STD	28,5			1		
GULL ISLAND	HERRING	N	1					
	GULL	MEAN STD	22.9					
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 2378-TETRACHLORODIBENZO-p-DIOXIN

LAKE HUR	ON (CONT.)				YEAR	3		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			0			
ISLAND	BACKED GULL	MEAN						
	HERRING	N			o			
× .	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N		1	1		1	
	GULL	MEAN STD			30.1			
GERTRUDE	RING-BILLED	N			1	1	1	
ISLAND	GULL	MEAN			4.7			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	17.6		30.1	10.33	14.98	10.18
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED CORMORANT	MEAN STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD	20.6	27		6.67	9.78	3.74
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	10.8					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	14.1	5.22		5.67		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	18.7	21.2		7.5	4.01	1.75

LAKES	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES	-3					
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD		17			
AGAWA ROCK	HERRING	N	0	1	1	1	1
	GULL	MEAN	0.0	17.1	10.27	8.66	6.29
		STD					
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	13.8	17	6.12		3.66
Continue was		STD			5-2/5/25		
	RING-BILLED	N		1		0	
	GULL	MEAN		1		- 11	
		STD					
SILVER ISLET	HERRING	N		1		1	
The state of the s	GULL .	MEAN				6.05	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12378-PENTACHLORODIBENZO-p-DIOXIN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						- 37
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD		- 1			
	HERRING	N	1	1	1	1	1
	GULL	MEAN	7	4.1	ND	2.23	1.74
		STD					
	RING-BILLED	N		0		0	
	GULL	MEAN			1		
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	12.8	11	4.44	4.39	2.46
		STD		2.00		THE CONTRACTOR OF THE CONTRACT	
PIGEON ISLAND	DOUBLE-	N			0	1	
	CRESTED	MEAN	1				
	CORMORANT	STD					
	GREAT BLACK-	N	0	0	- 4		
	BACKED GULL						
		STD		1			
	HERRING	N	- 1	1		Ì	
	GULL	MEAN	11.6	11.1			
		STD	0.000	district.			
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN			-		
	CORMORANT	STD		- 1			
	GREAT BLACK-		0	0			
	BACKED GULL	A DESCRIPTION OF THE PARTY OF T				1	
	- SANCE OF THE SANCE	STD					
	HERRING	N	1	1	- 4		
	GULL	MEAN	14.3	(15.71)i			
The Astronomy	NEE STADISH	STD	7.83	Assess Ass			
GULL ISLAND,	GREAT BLACK-	71/20	0				
PRESQU'ILE	BACKED GULL						
PROVINCIAL	SAUGE ALEX	STD				1	
PARK	HERRING	N	1		1	4	
1 - 101 - 57 - 5	GULL	MEAN	10				
Market Land		STD				3.0	
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	(0.2)	(2.6)	2.88	3.88	1.82
To any		STD		2-21		-	
HAMILTON	DOUBLE-	N	1		0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	(0.5)	(3.8)	5.96	3.08	1.25
		STD		20 - 25			
	RING-BILLED	N		1		0	
	GULL	MEAN		8.5			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12378-PENTACHLORODIBENZO-p-DIOXIN

NIAGAR	YEAR						
	93 94 95				96	97	
COLONY NIAGARA RIVER	SPECIES HERRING	N	1	1	1	1	1
· · · · · · · · · · · · · · · · · · ·	GULL	MEAN STD	2	(4.8)i	3.56	3.41	1.64

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	(0.4)		3.37	3.35	2.46
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	12.2	(1.8)	13.43	6.95	4.48
EAST SISTER ISLAND	DOUBLE- CRESTED	N MEAN			0		
MIDDLE SISTER	CORMORANT HERRING	STD N		1			
ISLAND	GULL	MEAN STD		7.5			

DETF	ROIT RIVER	(2)	YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 (1.3)	1 3.72	1 2.3	1.87			
	RING-BILLED GULL	N MEAN STD				0				

LAKE H	IURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES			-				
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	14.4	15100	30.4i	10.03	7.82	3.55
MAIDEN ISLAND	HERRING	N	1				- 1	
	GULL	MEAN STD	25.8					
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	26.2		14.8	7.33	13.8	5.82
DUCK ISLAND	HERRING	N	1			1		
	GULL	MEAN STD	27.4					
GULL ISLAND	HERRING	N	1			- 1		
	GULL	MEAN STD	8.8					
WALLIS	DOUBLE-	N				0	- 1	
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12378-PENTACHLORODIBENZO-p-DIOXIN

LAKE HUR	ON (CONT.)				YEA	3		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N	- 1		0			
SLAND	BACKED GULL	MEAN STD						
	HERRING	N	1		o			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			1	1		
	GULL	MEAN STD			1.7			
GERTRUDE	RING-BILLED	N	- 1		1			
ISLAND	GULL	MEAN STD	- 1		(0.5)			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	17.6		46.7	9.98	9.04	7.59
AFRICA ROCK	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD	28.7	22.7		13.31	16.34	4.86
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	(0.5)	5.04		5.05		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	0.4i	(0.4)		10.77	5.08	2.23

LAKES	UPERIOR				YEAR		0.1
			93	94	95	96	97
COLONY	SPECIES	12.00					
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN	- 1				
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	o	1	1	1	1
	GULL	MEAN		5.9	11.75	10	6.36
CRANITE	HERRING	STD	- 4	4	4		
GRANITE		9.73	40 5	7.0	0.50		0.44
ISLAND	GULL	MEAN STD	13.5	7.9	6.52		3.41
	RING-BILLED	N				0	
	GULL	MEAN STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN STD				6.57	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123478-HEXACHLORODIBENZO-p-DIOXIN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD					
	RING-BILLED	N		0		0	
	GULL	MEAN		5,00		1100	
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	
	GULL	MEAN	ND	(0.6)	ND	ND	NE
		STD	\$3000m	3.00.00		AROCARSO	
PIGEON ISLAND	DOUBLE-	N			o		
	CRESTED	MEAN		- 1		1	
	CORMORANT	STD					
	GREAT BLACK-	N	0	0	1		
	BACKED GULL	MEAN	1000	***			
		STD		- 4		- 1	
	HERRING	N	1	1		1	
	GULL	MEAN	ND	ND		- 1	
		STD	(0.000)	0.075		- 1	
LITTLE GALLOO	DOUBLE-	N		1	0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-		0	0			
	BACKED GULL				1		
		STD					
	HERRING	N	1	1			
	GULL	MEAN	ND	(0.18)			
		STD		,			
GULL ISLAND,	GREAT BLACK-	N	0		0.00		
PRESQU'ILE	BACKED GULL	MEAN					
PROVINCIAL		STD		1			
PARK	HERRING	N	1				
	GULL	MEAN	ND				
		STD					
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	ND	ND	ND	0.46	NE
		STD					
HAMILTON	DOUBLE-	N	- 1		0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD		- 1			
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	(0.1)	ND	0.44	NE
		STD					
	RING-BILLED	N		1		0	
	GULL	MEAN		ND			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

NIAGARA RIVER			YEAR						
			93	94	95	96	97		
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	(0.1)	1 ND	1 ND	NE		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	ND		ND	ND	ND
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	(0.4)	ND	(0.96)	ND
EAST SISTER ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0		
MIDDLE SISTER	HERRING	N		1		- 1	
ISLAND	GULL	MEAN STD		(0.1)			

DETF	ROIT RIVER				YEAR		
			93	94	95	96	97
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD	0	(0.1)	1 ND	ND 0	1 ND

LAKE	HURON				YEA	R		
A COLUMN THE REAL PROPERTY.			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		(0.1)	ND	ND	ND
MAIDEN ISLAND	HERRING	N	1					
	GULL	MEAN STD	0.6					
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER	GULL	MEAN STD	(0.1)		(0.1)	0.84	0.83	ND
DUCK ISLAND	HERRING	N	1					
	GULL	MEAN STD	1.1					
GULL ISLAND	HERRING	N	1					
	GULL	MEAN STD	0.1			1		
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED	MEAN				7.2		
	CORMORANT	STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123478-HEXACHLORODIBENZO-p-DIOXIN

LAKE HUR	ON (CONT.)				YEA	3		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N		- 1	0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N	1		0	1		
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			(0.1)			
GERTRUDE	RING-BILLED	N		1	1	1		
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		(0.1)	0.44	ND	ND
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED CORMORANT	MEAN STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES	- X						
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD	(0.1)	ND		ND	0.56	ND
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	ND	ND		ND		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	(0.1)	ND		ND	ND	ND

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES			- 7			
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	1	1	1	1
	GULL	MEAN		ND	1.07	0.58	0.26
		STD					
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	ND	ND	ND		ND
		STD		0.000	101 100 100	1	202
	RING-BILLED	N			6	0	
	GULL	MEAN					
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				0.24	
	ACALTER PER	STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans; () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123678-HEXACHLORODIBENZO-p-DIOXIN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD	- 1			- 171	
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	(0.3)	7.3	ND	2.85	1.98
	RING-BILLED	N		0		0	
	GULL	MEAN STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	11.3	12.5	7.2	5.67	2.39
		STD					
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN				4	
	CORMORANT	STD	3.91				
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN		- 11		- 1	
		STD					
	HERRING	N	1	1			
	GULL	MEAN	11.6i	10.5		- 1	
		STD	1,62,67	.00.000.000		1	
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN			- 54		
12-11-11	CORMORANT	STD	144				
	GREAT BLACK-		0	0			
	BACKED GULL						
		STD				10	
	HERRING	N	1	1			
	GULL	MEAN	7.4	(0.96)			
		STD	5002 95		1.		
GULL ISLAND,	GREAT BLACK-	N	0			1	
PRESQU'ILE	BACKED GULL						
PROVINCIAL	90 AZEN E ZEN E	STD	3111				
PARK	HERRING	N	- 1	1			
	GULL	MEAN	7.8				
		STD				1	
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	(0.5)	7.5	4.07	4.62	2.98
The state of the		STD	300 339				
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD					
0.	HERRING	N	1	1	1	1	- 1
	GULL	MEAN	(0.4)	10.1	7.02	4.46	3.08
		STD	18 130				
	RING-BILLED	N		1		0	
	GULL	MEAN		(0.2)			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123678-HEXACHLORODIBENZO-p-DIOXIN

NIAGARA RIVER			YEAR						
				94	95	96	97		
COLONY	SPECIES	NATIONAL DESIGNATION OF THE PROPERTY OF THE PR	385				(4)		
NIAGARA RIVER	HERRING	N	1	1	1	1	1		
	GULL	MEAN STD	10.4	11.1	4.5	4.89	2.53		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES	192					
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	(0.2)		3.99	4.07	3.12
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	23	16.4	15.07	8.72	6.8
EAST SISTER ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		22.6			

DETE	DETROIT RIVER			YEAR						
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 12,1	1 6.75	1 5.14	4.95			
	RING-BILLED GULL	N MEAN STD				0				

LAKE	HURON				YEA	3		
			93	93	94	95	96	97
COLONY	SPECIES		3/2 3/4		5	7 7		
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	16.5		11.5	8.34	5.99	3.11
MAIDEN ISLAND	HERRING	N	1		1			
	GULL	MEAN STD	10.7			ľ		
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	47.3		30	12.76	17.24	10
DUCK ISLAND	HERRING	N	1					
	GULL	MEAN STD	16.5					
GULL ISLAND	HERRING	N	1					
	GULL	MEAN STD	8					
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123678-HEXACHLORODIBENZO-D-DIOXIN

LAKE HUR	ON (CONT.)				YEAR	3		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			О			
*	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			1	- 10		
	GULL	MEAN STD			11.6			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			(0.5)			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	13.6		16.7	7.63	6.7	7.42
AFRICA ROCK	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

LAKE M	ICHIGAN		YEAR							
			93	94	94	95	96	97		
COLONY	SPECIES									
GULL ISLAND	HERRING	N	1	1	0	1	- 1	1		
	GULL	MEAN STD	18.8	25.7	30	12.64	10.46	5.7		
GARY, INDIANA	HERRING	N	1							
OF BOTH STATE TO A STATE OF THE	GULL	MEAN STD	13.5							
EAST CHICAGO	HERRING	N	1	1		1				
	GULL	MEAN STD	16.5	7.66		7.16				
BIG SISTER	HERRING	N	1	1		1	1	1		
ISLAND	GULL	MEAN STD	18.4	14.6		12.11	5.17	3.19		

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N	- 1		0		
ISLAND	CRESTED	MEAN				- 1	
	CORMORANT	STD		- 1		- 1	
AGAWA ROCK	HERRING	N	0	1	1	1	1
	GULL	MEAN		10.1	8.77	7.66	6.74
		STD					
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	12.4	11.2	8.45	1	4.31
		STD					
	RING-BILLED	N				0	
	GULL	MEAN			- 0	100	
		STD		100	. 1		
SILVER ISLET	HERRING	N				1	
	GULL	MEAN			- 1	5.99	
	755000 FCF 2	STD				1040.0000	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123789-HEXACHLORODIBENZO-p-DIOXIN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N	+		0		
ISLAND	CRESTED	MEAN	- 1	- 1			
	CORMORANT	STD		1	- 1	1	
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	(0.17)
		STD		- 1	- 1		N 8
	RING-BILLED	N	1	0	1	0	
	GULL	MEAN	4	227		7.00	
		STD				1	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	(0.4)	ND	ND	ND
		STD			2000		
PIGEON ISLAND	DOUBLE-	N	1	- 1	0	1	
	CRESTED	MEAN		- 1		1	
	CORMORANT	STD	1.		4	- 1	
	GREAT BLACK-	N	0	0		1	
	BACKED GULL	MEAN			1	1	
		STD	1			- 1	
	HERRING	N	1	1	1		
	GULL	MEAN	ND	ND	1		
		STD	1				
LITTLE GALLOO	DOUBLE-	N	- 1	- 1	0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD		1	- 1	- 1	
	GREAT BLACK-	N	0	0	- 1	1	
	BACKED GULL	MEAN		J	- 1	1	
		STD	4				
	HERRING	N	1	1	1		
	GULL	MEAN	ND	(0.09)		1	
		STD					
GULL ISLAND,	GREAT BLACK-	0.150	0	1		- 1	
PRESQU'ILE	BACKED GULL		1		- 1		
PROVINCIAL	Vivinte Military 2008	STD					
PARK	HERRING	N	1	1	1		
	GULL	MEAN	ND				
		STD		1		1	
LESLIE STREET	HERRING	N	1	. 1	1	1	1
SPIT	GULL	MEAN	ND	ND	0.52	0.5	0.38
LIANU TON		STD				1	
HAMILTON	DOUBLE-	N	J		0		
HARBOUR	CRESTED	MEAN				- 1	
	CORMORANT	STD		s l		ار	12
	HERRING	N	(2.4)	1	1	1	1
	GULL	MEAN	(0.1)	ND	1.07	0.54	0.31
	DINO DI 1 55	STD					
	RING-BILLED	N		1		0	
	GULL	MEAN	1	ND			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123789-HEXACHLORODIBENZO-p-DIOXIN

NIAGAR		YEAR							
			93	94	95	96	97		
COLONY NIAGARA RIVER	SPECIES HERRING	N	1	1	140	1	1		
	GULL	MEAN STD	(0.1)	ND	ND	ND	0.29		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	ND		ND	ND	0.4
LIGHTHOUSE		STD	ADSSV-2			1.5.50	
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	(0.4)	2.89	1.83	0.91
		STD			***************************************		
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		ND			
Continue Wallet		STD					

DETF	ROIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 ND	1 (0.78)	1 0.88	1 0.43			
	RING-BILLED GULL	N MEAN STD				0				

LAKE	HURON			*	YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	ND	0.85	0.4
MAIDEN ISLAND	HERRING	N	1	1			- 1	
	GULL	MEAN STD	0.5		ļ.			
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	ND		(0.1)	ND	1.55	0.46
DUCK ISLAND	HERRING	N	1					
	GULL	MEAN STD	0.7					
GULL ISLAND	HERRING	N	1			g.		
	GULL	MEAN STD	0.1					
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123789-HEXACHLORODIBENZO-p-DIOXIN

LAKE HUR	ON (CONT.)				YEAI	R		
	Proposition Control of the State of the Stat		93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N		1	0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			ND			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		(0.2)	1.1	(0.76)	0.51
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED CORMORANT	MEAN STD						

LAKE M	CHIGAN				YEA	3		
			93	94	94	95	96	97
COLONY	SPECIES					1985		
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD	(0.1)	ND	Self	ND	1.34	0.44
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	ND	0.45		0.64		
BIG SISTER	HERRING	N	1	1		- 1	1	1
ISLAND	GULL	MEAN STD	ND	ND		ND	ND	0.24

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES				13.0	U-884-953-1919-0	D2-101-19-10
STEAMBOAT	DOUBLE-	N			0	1	
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	1	1	1	1
	GULL	MEAN		ND	1.67	1.02	0.62
		STD		1,2345.0			
GRANITE	HERRING	N	1	1	1	1	1
ISLAND	GULL	MEAN	(0.1)	ND	1.08	- 1	0.52
		STD	1000				
	RING-BILLED	N				0	
	GULL	MEAN	- 1				
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN	- 1			0.9	
		STD				1.04754	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234678-HEPTACHLORODIBENZO-p-DIOXIN

ST. LAWI	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	(1.5)	2.24	1.78	1.12
		STD	-	10.00	1 - 1		
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	43.2	2.85	1.54	0.89
		STD					
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN	1				
	CORMORANT	STD					
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN					
		STD	110				
	HERRING	N	1	1			
	GULL	MEAN	ND	(0.6)		1/1	
		STD		3			
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED"	MEAN					
	CORMORANT	STD					
	GREAT BLACK-		0	0		- 1	
	BACKED GULL	1,515.5					
		STD				f	
	HERRING	N	1	1			
	GULL	MEAN	(0.1)	(0.94)			
		STD					
GULL ISLAND,	GREAT BLACK-	N	0				
PRESQU'ILE	BACKED GULL	MEAN			-9/		
PROVINCIAL		STD					
PARK	HERRING	N	1				
374-74	GULL	MEAN	(0.1)				
		STD	X				
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	(0.1)	(0.1)	3.45	3.24	4.13
		STD	191.45 (1967)	100 - 17 - 22			
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	(0.1)	15.8	4.18	5.22	1.49
		STD					
	RING-BILLED	N		1		0	
	GULL	MEAN		(0.1)			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234678-HEPTACHLORODIBENZO-p-DIOXIN

NIAGARA RIVER			YEAR						
			93 94 95 96						
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 (0.1)	1 (1.1)	1.91	1 2.44	1 1.49		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	(0.1)	₹0	2.7	2.22	1.24
MIDDLE ISLAND	HERRING	N	1	1	1	1	- 1
	GULL	MEAN STD	(0.5)	(0.6)	3.83	3.08	2.07
EAST SISTER ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0		
MIDDLE SISTER ISLAND	HERRING GULL	N MEAN STD		(0.4)	5 4		

DETF	DETROIT RIVER				YEAR		
20000000			93	94	95	96	97
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 (4.2)	1 5.19	1 2.16	1 2.67
	RING-BILLED GULL	N MEAN STD				0	

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND	1	(0.7)	2.47	1.89	1.16
MAIDEN ISLAND	HERRING	N	1					
	GULL	MEAN STD	0.7		Í			
CHANNEL	HERRING	N	1		1]	1	1	1
SHELTER ISLAND	GULL	MEAN STD	13.7		(0.6)	3.4	5.19	4.39
DUCK ISLAND	HERRING	N	1		- 1	- 1		
	GULL	MEAN STD	1.7					
GULL ISLAND	HERRING	N	1	1				
	GULL	MEAN STD	5.7	ř				
WALLIS	DOUBLE-	N		1	- 1	0		
ROCKS	CRESTED CORMORANT	MEAN STD				206		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs; TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234678-HEPTACHLORODIBENZO-p-DIOXIN

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N			o			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			o			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			(0.1)			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			(0.7)			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	(0.6)	3200	(0.7)	1.87	1.46	2.23
AFRICA ROCK	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

LAKEM	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD	ND	(0.7)		3.84	1.12	0.34
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	(0.3)					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	(0.8)	3.02		2.23		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	(0.9)	8.8		2.49	0.63	0.75

LAKE S	UPERIOR				YEAR		
1000			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N	- 1	1	0		
ISLAND	CRESTED	MEAN				- 1	
	CORMORANT	STD				-	
AGAWA ROCK	HERRING	N	0	1	1	1	1
	GULL	MEAN		(0.4)	3.76	2.04	1.97
		STD		23			
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	(0.1)	(0.4)	3.99		1.89
		STD					
	RING-BILLED	N				0	
	GULL	MEAN					
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				2.91	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in $\rho g/g$; all others in $\mu g/g$. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OCTACHLORODIBENZO-p-DIOXIN

ST. LAW	RENCE RIVER			- 1000	YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN	16		- 1	i i	
	CORMORANT	STD					
	HERRING	N	1	3[1	1	1
	GULL	MEAN	ND	(0.8)	4.38	2.35	2.64
		STD		25 127			
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

LAKE O	NTARIO			1.40	YEAR				
			93	94	94 95 96				
COLONY	SPECIES								
SNAKE ISLAND	HERRING	N	1	1	1	1	1		
	GULL	MEAN	ND	(0.8)	5.31	3.16	1.53		
		STD							
PIGEON ISLAND	DOUBLE-	N	71		0	1			
	CRESTED	MEAN	J						
	CORMORANT	STD	1						
	GREAT BLACK-	N	0	0					
	BACKED GULL	MEAN							
		STD				1			
	HERRING	N	1	1					
	GULL	MEAN	ND	(0.6)		- 1			
65		STD			*	9			
LITTLE GALLOO	DOUBLE-	N			0	1			
ISLAND	CRESTED	MEAN							
	CORMORANT	STD	1]			
	GREAT BLACK-	N	0	0		1			
	BACKED GULL	MEAN		1					
		STD							
	HERRING	N	1	1		1			
	GULL	MEAN	ND	(0.23)					
		STD		00					
GULL ISLAND,	GREAT BLACK-		0						
PRESQU'ILE	BACKED GULL	MEAN			1				
PROVINCIAL		STD		1					
PARK	HERRING	N	1						
	GULL	MEAN	(0.1)			ľ			
		STD							
LESLIE STREET	HERRING	N	1[1	1	1	1		
SPIT	GULL	MEAN	ND	(0.2)	6.61	4.82	7.07		
		STD							
HAMILTON	DOUBLE-	N			0				
HARBOUR	CRESTED	MEAN		1		- 1			
	CORMORANT	STD							
	HERRING	N	1	1	1	1	1		
	GULL	MEAN	ND	(1)	3.06	6.24	1.73		
		STD	Potenti	1200000		ii bakeway			
	RING-BILLED	N		1		0			
	GULL	MEAN		(0.5)					
		STD							

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OCTACHLORODIBENZO-p-DIOXIN

NIAGARA RIVER			YEAR						
			93 94 95 96						
COLONY NIAGARA RIVER	SPECIES HERRING	N	1	1	4	1	1		
1)/1.2 5 1.11.11.21.11.21.21.	GULL	MEAN STD	ND	(1.1)	5.68	2.79	1.44		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	(0.1)		4.64	2.61	2.26
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	(0.1)	(1.1)	5.89	5.86	3.56
EAST SISTER ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0		
MIDDLE SISTER ISLAND	HERRING GULL	N MEAN STD		(0.8)			

DETR	ROIT RIVER		YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 ND	1 13.69	1 5.34	1 6.09		
	RING-BILLED GULL	N MEAN STD				0			

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES					No. of the		
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		(0.6)	2.93	1.67	1.45
MAIDEN ISLAND	HERRING	N	1			1	- 1	
	GULL	MEAN STD	0.4					
CHANNEL	HERRING	N	1	1	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	(2.2)		27.6	9.67	24.44	15.1
DUCK ISLAND	HERRING	N	1					
	GULL	MEAN STD	0.2			1		
GULL ISLAND	HERRING	N	1		1			
	GULL	MEAN STD	14.1					
WALLIS	DOUBLE-	N	1	1		0		
ROCKS	CRESTED	MEAN						
	CORMORANT	STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OCTACHLORODIBENZO-p-DIOXIN

LAKE HUR	ON (CONT.)		V TISTER		YEAR	3	14 250/40	
	- A		93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N			0			
ISLAND	BACKED GULL	MEAN STD				- 1		
	HERRING	N			O			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			1	1	1	
	GULL	MEAN STD			(0.2)			
GERTRUDE	RING-BILLED	N		1	1			
ISLAND	GULL	MEAN STD			(0.9)			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		(0.7)	4.99	1.56	4.34
AFRICA ROCK	DOUBLE-	N				0	- 1	
	CRESTED	MEAN				72.53		
	CORMORANT	STD					- 1	

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES	-						
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD	ND	(0.6)		5.88	1.34	0.65
GARY, INDIANA	HERRING	N	1		510			
	GULL	MEAN STD	(0.6)					
EAST CHICAGO	HERRING	N	1	1		1	- 1	
	GULL	MEAN STD	(1.6)	6.62		3.83		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	(1.9)	53		8.13	2	7.08

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES			-			
STEAMBOAT	DOUBLE-	N			0	- 1	
ISLAND	CRESTED	MEAN	ſ			- 1	
	CORMORANT	STD	- 1	1			
AGAWA ROCK	HERRING	N	0	1	1	1	1
	GULL	MEAN		(0.2)	7.9	3.06	2.32
		STD		N 150	1	- 1	
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	ND	(0.4)	3.76	- 1	1.58
		STD					
	RING-BILLED	N			1	0	
	GULL	MEAN	_ 1			1	
		STD		- 1		1	
SILVER ISLET	HERRING	N	- 10		1	1	
	GULL	MEAN			1.	5.12	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 2378-TETRACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	3.3	ND	ND	ND	ND
	RING-BILLED	N		0		0	
	GULL	MEAN STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	1.01	ND
		STD				7,543,544,5	
PIGEON ISLAND	DOUBLE-	N	- 1		0		
	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN					
		STD					
	HERRING	N	1	- 1			
	GULL	MEAN	4.5	ND	1		
		STD	075/09				
LITTLE GALLOO	DOUBLE-	N			0		
SLAND	CRESTED	MEAN					
	CORMORANT	STD	40				
	GREAT BLACK-	N	0	o	- 1		
	BACKED GULL	MEAN					
	THE STATE OF THE S	STD					
	HERRING	N	1	1			
	GULL	MEAN	7.1	8.99			
		STD	33329	5000000			
GULL ISLAND,	GREAT BLACK-	N	0				
PRESQUILE	BACKED GULL	MEAN		1			
PROVINCIAL		STD	- 1				
PARK	HERRING	N	1	- 4		1	
	GULL	MEAN	ND				
		STD					
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	(0.8)	0	ND	0.28	(0.23)
		STD	N				
HAMILTON	DOUBLE-	N		4	0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N		1	1	1	1
	GULL	MEAN	¥	(0.1)	ND	0.18	ND
		STD		A90 M			
	RING-BILLED	N		1		0	
	GULL	MEAN		ND			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds; ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 2378-TETRACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR							
				94	95	96	97			
COLONY	SPECIES									
NIAGARA RIVER		N	1	1	1	0.1	1			
	GULL	MEAN STD	ND	ND	ND	ND	0.45			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	(0.1)		ND	(0.22)	0.36
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	(0.1)	ND	1.17	ND	1.02
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED CORMORANT	MEAN STD					
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		(0.1)			

DETF	ROIT RIVER		YEAR						
			93	94	95	96	97		
COLONY	SPECIES HERRING	N	0	1	1	1	1		
ISLAND	GULL	MEAN STD		(0.3)	ND	0.52	0.25		
	RING-BILLED GULL	N MEAN STD				0			

LAKE	HURON			145	YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES					7		
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	ND	0.78	0.31
MAIDEN ISLAND	HERRING	N	1					
	GULL	MEAN STD	0.2	1	1			
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	3.4		ND	1.38	29.98	1.04
DUCK ISLAND	HERRING	N	1					
	GULL	MEAN STD	1					
GULL ISLAND	HERRING	N	1					
	GULL	MEAN STD	ND					
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in μg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 2378-TETRACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N	- 1		О			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N	- 1		1			
	GULL	MEAN STD			ND			
GERTRUDE	RING-BILLED	N	1		1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	(0.1)		ND	1.9	0.38	0.39
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED	MEAN						
7	CORMORANT	STD						

LAKE M	ICHIGAN		YEAR							
			93	94	94	95	96	97		
COLONY GULL ISLAND	SPECIES HERRING	N	1	1	0	1	1	- 1		
	GULL	MEAN STD	(6.8)	(0.1)		0.62	1.62	0.33		
GARY, INDIANA	HERRING	N	1							
	GULL	MEAN STD	(0.1)							
EAST CHICAGO	HERRING	N	1	1		1				
	GULL	MEAN STD	ND	0.68		0.37				
BIG SISTER	HERRING	N	1	1		1	1	1		
ISLAND	GULL	MEAN STD	ND	1.8		0.79	0.61	0.29		

LAKE S	UPERIOR			- 10	YEAR		76-
1000			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD				1	
AGAWA ROCK	HERRING	N	0	1	1	1	1
EE LAP	GULL	MEAN		(0.1)	(0.4)	0.34	0.19
Table 1		STD				***************************************	
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	(1.3)	ND	ND		ND
		STD					
	RING-BILLED	N			1	0	
	GULL	MEAN		-		1	
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN STD				0.1	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12468-PENTACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY STRACHAN	SPECIES DOUBLE-	N			0		
ISLAND	CRESTED CORMORANT	MEAN STD	k				
	HERRING	N	0	0	1	1	10.45
	GULL	MEAN STD			ND	ND	(0.15)
	RING-BILLED	N		0		0	
	GULL	MEAN STD					

LAKE O	NTARIO				YEAR	-	
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	o	0	1	1	1
	GULL	MEAN	1		0.94	ND	ND
		STD	277		7557.547.77		
PIGEON ISLAND	DOUBLE-	N		1	CI		
	CRESTED	MEAN	200				
	CORMORANT	STD				24.5	
	GREAT BLACK-	N	0	0		1	
	BACKED GULL	MEAN	92.4		1		
		STD		- 1	1	1	
	HERRING	N	o	0	1		
	GULL	MEAN			- 1		
		STD	1	- 4	- 1	4	
LITTLE GALLOO	DOUBLE-	N		T T	O		
ISLAND	CRESTED	MEAN	1	4			
	CORMORANT	STD		- 1	1		
	GREAT BLACK-	5770 (0 Ph/Hg)	0	0			
	BACKED GULL		574			1	
		STD	- 1	4:			
	HERRING	N	o	0		- 1	
	GULL	MEAN		***	1		
		STD		1			
GULL ISLAND,	GREAT BLACK-	N	0	- 1	4	- 1	
PRESQU'ILE	BACKED GULL	MEAN		1		1	
PROVINCIAL		STD	_1	1	1		
PARK	HERRING	N	0	1	- 1	- 1	
	GULL	MEAN				1	
		STD	1			. 88	
		N	0	0	1	1	1
SPIT	GULL	MEAN	1	- 1	(0.28)	0.12	0.09
		STD	- 1	1			
HAMILTON	DOUBLE-	N	1		CI		
HARBOUR	CRESTED	MEAN	1	1			
	CORMORANT	STD		4	1		
	HERRING	N	0	0	1	1	1
	GULL	MEAN	1	1	ND	0.08	1.53
		STD					
	RING-BILLED	N	-	0		0	
	GULL	MEAN					
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12468-PENTACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR							
7		93	94	95	96	97				
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0	0	1 ND	1 ND	1 ND			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	0		1	1	- 1
COLBORNE LIGHTHOUSE	GULL	MEAN STD			ND	ND	ND
MIDDLE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN STD		E and	ND	ND	ND
EAST SISTER	DOUBLE- CRESTED	N			0		
ISLAND	CORMORANT	MEAN STD					
MIDDLE SISTER	HERRING	N		0			
ISLAND	GULL	MEAN STD					

DETR	ROIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED	N MEAN STD N	0	0	0.4	(0.08) 0	0.07			
1	GULL	MEAN STD								

LAKE	HURON				YEA	7		
			93	93	94	95	96	97
COLONY	SPECIES							- 0"
CHANTRY	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				ND	0.73	ND
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					
CHANNEL SHELTER ISLAND	HERRING GULL	N MEAN STD	0		0	0.83	0.56	(0.1)
DUCK ISLAND	HERRING GULL	N MEAN STD	0					
GULL ISLAND	HERRING GULL	N MEAN STD	0					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12468-PENTACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEAR	3		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	N	500	1	0		- 1	
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD	Į.	Į.				
MOUSE ISLAND		N			0			
	GULL	MEAN STD						
GERTRUDE	RING-BILLED	N	4		0			
ISLAND	GULL	MEAN STD						
DOUBLE	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				0.14	ND	NE
AFRICA ROCK	DOUBLE-	N				0	182	
	CRESTED	MEAN						
	CORMORANT	STD						

LAKE M	CHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	0	0	0	1	1	1
	GULL	MEAN STD	-	1		0.42	0.26	ND
GARY, INDIANA	HERRING	N	0	- 1	1		1	
ASSAMILATED I MESTE ARTACH PARETINIAN AND	GULL	MEAN			- 1	- 1	1	
		STD	la la					
EAST CHICAGO	HERRING	N	0	1	4	1	1	
	GULL	MEAN		(0.29)		0.16	1	
		STD			- 1	1		
BIG SISTER	HERRING	N	0	0	1	1	1	1
ISLAND	GULL	MEAN STD				0.16	ND	(0.13)

LAKE S	UPERIOR				YEAR		100
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN	1			Į.	
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	0.1	NE
		STD					
GRANITE	HERRING	N	0	0	1	1	1
ISLAND	GULL	MEAN			ND		NE
		STD		T.			
	RING-BILLED	N			- 1	0	
	GULL	MEAN			- 1		
		STD		lo-	- 1		
SILVER ISLET	HERRING	N	1		- 1	1	
	GULL	MEAN	1			0.31	
		STD			The state of the s		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12478-PENTACHLORODIBENZOFURAN

ST. LAWI	RENCE RIVER		,,		YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD		- 1			
	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	1.78	0.84
		STD					
	RING-BILLED	N	1	o		0	
	GULL	MEAN				9501	
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN			1.55	1.95	0.38
		STD				576294.01	
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-	N	0	0		- 1	
	BACKED GULL	MEAN		-			
		STD					
	HERRING	N	0	0			
	GULL	MEAN					
180		STD				1	
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN		- 1			
	CORMORANT	STD	1	1			
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN					
N. P.		STD					
	HERRING	N	0	0			
	GULL	MEAN					
		STD			1		
GULL ISLAND,	GREAT BLACK-	N	0				
PRESQU'ILE	BACKED GULL	MEAN					
PROVINCIAL		STD					
PARK	HERRING	N	0		1		
19.00	GULL	MEAN					
e to a		STD	1				
LESLIE STREET	HERRING	N	0	0	1	1	
SPIT	GULL	MEAN			2.13	1.32	0.81
La Real Land		STD				1	
HAMILTON	DOUBLE-	N	- 1		0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD		900			
	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	1.7	1.91
4	VESTORESIA CHEMINI WASE	STD		241		90	
100	RING-BILLED	N		0		0	
	GULL	MEAN					
the state of the s		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12478-PENTACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR						
			93 94 95 96						
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0	o	1 ND	1 0.86	1 0.36		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	0	1	1	1	1
COLBORNE	GULL	MEAN			ND	1.29	0.39
LIGHTHOUSE		STD	1	1			
MIDDLE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN	- 1	Î	ND	1.22	1.09
		STD					
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN		1			
	CORMORANT	STD	1		1	Ī	
MIDDLE SISTER	HERRING	N		O			
ISLAND	GULL	MEAN	1		1		
		STD					

DETROIT RIVER			YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	0	1 6.33	1 1.3	0.88		
	RING-BILLED GULL	N MEAN STD				0			

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	0	o	0	1	1	1
ISLAND	GULL	MEAN STD	7			ND	3.99	0.87
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					
CHANNEL SHELTER ISLAND	HERRING GULL	N MEAN STD	0		0	7.13	3.21	3.05
DUCK ISLAND	HERRING GULL	N MEAN STD	0					
GULL ISLAND	HERRING GULL	N MEAN STD	0					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds; ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12478-PENTACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)			1	YEA	3		
			93	93	94	95	96	97
COLONY	SPECIES						100-100-00-00	
HALFMOON	GREAT BLACK	- N	4		0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			0	V	1	
	GULL	MEAN STD	1					
GERTRUDE	RING-BILLED	N			O			
ISLAND	GULL	MEAN STD						
DOUBLE	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD		476.7		0.9	1.48	0.87
AFRICA ROCK	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	0	o	0	1	1	1
	GULL	MEAN STD				1.51	2.8	0.41
GARY, INDIANA	HERRING	N	0	1			1	
576	GULL	MEAN STD						
EAST CHICAGO	HERRING	N	0	1	1	1	1	
gar Areas Santa Maria	GULL	MEAN STD		3.34		2.95		
BIG SISTER	HERRING	N	0	0		1	1	1
ISLAND	GULL	MEAN STD		X.SV		3.07	ND	0.66

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES		55				
STEAMBOAT	DOUBLE-	N			0	1	
ISLAND	CRESTED	MEAN		V.			
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	0	1	1	1
	GULL	MEAN	1		1.99	0.9	1.17
		STD					
GRANITE	HERRING	N	0	0	1	- 1	1
ISLAND	GULL	MEAN			0.83		0.62
		STD					
	RING-BILLED	N				0	
M.	GULL	MEAN					
		STD					
SILVER ISLET	HERRING	N			-	1	
	GULL	MEAN				2.85	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12378-PENTACHLORODIBENZOFURAN

ST. LAWI	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N		l.	О		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD	1		- 6		
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD					
	RING-BILLED	N		0		0	
	GULL	MEAN				***	
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES				V.		
SNAKE ISLAND	HERRING	N	1	1	1	1	1
19	GULL	MEAN	ND	ND	(0.58)	ND	NE
		STD	555,547,15				
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN	1				
	CORMORANT	STD				1	
	GREAT BLACK-		0	0			
	BACKED GULL					- 1	
		STD				1	
	HERRING	N	1	1			
	GULL	MEAN	ND	ND			
		STD					
LITTLE GALLOO	DOUBLE-	N		1	0		
ISLAND	CRESTED	MEAN			1		
	CORMORANT	STD	1			1	
	GREAT BLACK-		0	0			
	BACKED GULL	AND STREET, ST				1	
	ra-menasan anner	STD	17649				
	HERRING	N	1	1			
	GULL	MEAN	ND	(0.05)			
01111 101 1110	ODE4T DI 401/	STD				J.	
GULL ISLAND,	GREAT BLACK-		0	- 1	1		
PRESQU'ILE	BACKED GULL					4	
PROVINCIAL PARK	LIEDDING	STD N	4			- 1	
PARK	HERRING GULL	MEAN	1 ND			1	
	GULL	STD	ND	l ₂		- 1	
LESLIE STREET	HERRING	N	4	4	1	- 1	4
SPIT	GULL	MEAN	ND	ND	ND	0.12	0.12
5.11	GOLL	STD	ND	140	140	0.12	0, 12
HAMILTON	DOUBLE-	N	1	1	o		
HARBOUR	CRESTED	MEAN			٥		
HAILDOON	CORMORANT	STD	Į.				
	HERRING	N	0	1	1	1	4
	GULL	MEAN	J	ND	ND	0.1	ND
	GOLL	STD		NO	140	0.1	INL
	RING-BILLED	N		1		o	
	GULL	MEAN		ND		J	
	COLL	STD		NO			

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12378-PENTACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR						
			93	94	95	96	97		
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 ND	1 ND	1 ND		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	ND		ND	ND	0.2
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	0.42	0.16
		STD	10460000	47 OSP-18-3	V-22,400		
EAST SISTER	DOUBLE-	N			O		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		ND			
		STD					

DETE	ROIT RIVER				YEAR		
			93	94	95	96	97
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD		1 ND	1 ND	1 (0.34) 0	0.14

LAKE	IURON			A SCIENCE AND A	YEA	R	- H T/	100
			93	93	94	95	96	97
COLONY	SPECIES							- A - TE -
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	ND	0.31	(0.14)
MAIDEN ISLAND	HERRING	N	1	- 1			- 1	400
	GULL	MEAN STD	0.3					
CHANNEL	HERRING	N	1	1	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	ND		(0.1)	0.51	8.47	0.46
DUCK ISLAND	HERRING	N	1		- 1	1		
	GULL	MEAN STD	ND					
GULL ISLAND	HERRING	N	1					
	GULL	MEAN STD	ND					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 12378-PENTACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEAR	7		
	-2-10-08 N 10-11-02		93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0		1	
	GULL	MEAN STD		ŀ				
MOUSE ISLAND	HERRING	N			1	1	- 1	
	GULL	MEAN STD			(0.4)	88.1		
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			CIN			
DOUBLE	HERRING	N	1	0	1	1	1	9
ISLAND	GULL	MEAN STD	ND		(0.2:)	ND	ND	0.14
AFRICA ROCK	DOUBLE-	N				0	1	
	CRESTED	MEAN				455		
	CORMORANT	STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD	ND	ND		ND	0.6	0.14
GARY, INDIANA	HERRING	N	1	- 1				
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	ND	ND		ND		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	(0.1)	ND		ND	ND	ND

LAKE S	UPERIOR				YEAR		7
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N	1	1	CI		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD				J	
AGAWA ROCK	HERRING	N		1	1	1	1
	GULL	MEAN		ND	0.43	0.24	ND
		STD					
GRANITE	HERRING	N	1	1	1	1	1
ISLAND	GULL	MEAN	ND	ND	ND	- 1	ND
		STD				1	
	RING-BILLED	N				0	
	GULL	MEAN		- 1	- 1		
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				ND	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 23478-PENTACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER		YEAR							
			93	94	95	96	97			
COLONY	SPECIES									
STRACHAN	DOUBLE-	N			0					
ISLAND	CRESTED	MEAN		- 1						
	CORMORANT	STD								
	HERRING	N	1	1	1	1	1			
	GULL	MEAN STD	(4.3)	6.7	ND	2.9	0.99			
	RING-BILLED	N		0		0				
	GULL	MEAN STD								

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	(7.7)	23.8	4.94	5.1	1.23
		STD					
PIGEON ISLAND	DOUBLE-	N	- 1		o		
	CRESTED	MEAN					
	CORMORANT	STD	1				
	GREAT BLACK-	N	o	0	- 1		
	BACKED GULL	MEAN					
		STD					
	HERRING	N	1	1		1	
	GULL	MEAN	ND	(2)	- 1		
		STD		(-/			
LITTLE GALLOO	DOUBLE-	N			o		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD		- 1			
	GREAT BLACK-		0	o	1		
	BACKED GULL	19000	٧	٦	- 1		
	Drioned doll	STD	- 1		- 1		Y
	HERRING	N	1	1			
	GULL	MEAN	6.6	(0.05)	- 1	1	
	GOLL	STD	0.0	(0.00)	1		
GULL ISLAND,	GREAT BLACK-	0.00	0		1		
PRESQUILE	BACKED GULL		"		- 1		
PROVINCIAL	DITORIED GOLL	STD			- 1		
PARK	HERRING	N	- 1		1		
	GULL	MEAN	5.3			1	
		STD	0.0	1			
LESLIE STREET	HERRING	N	1	1	- 1	1	1
SPIT	GULL	MEAN	4.4	ND	2.16	4.26	1.15
	Alexandra.	STD					
HAMILTON	DOUBLE-	N I	- 1	1	0	1	
HARBOUR	CRESTED	MEAN	- 1		-	- 1	
	CORMORANT	STD	1			- 1	
	HERRING	N	0	1	- 1	1	1
	GULL	MEAN	- 1	10.9	4.61	3.08	0.92
	GOLL	STD	- 1	10.0	4.01	0.00	0.02
	RING-BILLED	N		1		0	
	GULL	MEAN		(0.1)		U	
	JULL	STD		(0.1)			

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 23478-PENTACHLORODIBENZOFURAN

NIAGAR	NIAGARA RIVER		YEAR						
			93	94	95	96	97		
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 (0.1)	(0.1)	1 2.23	1 2.87	1.02		

LAKE	ERIE		72-		YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	(0.1)		2.19	3.07	2.19
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	(0.1)	5.4	5.22	2.45
EAST SISTER ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		15.6			

DETR	ROIT RIVER		YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN	0	1 (0.1)	1 3.87	1 2	1.46		
	RING-BILLED GULL	STD N MEAN STD				0			

LAKE	HURON				YEA	3		
			93	93	94	95	96	97
COLONY	SPECIES							⇒511 ¹ S ² 10 8
CHANTRY	HERRING	N	1	O	1	1	1	1
ISLAND	GULL	MEAN STD	ND	5	5.9	6.88	9.54	2.99
MAIDEN ISLAND	HERRING	N	1	- 1				
	GULL	MEAN STD	13.3					
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	19.5		14.8	9.31	18.4	5.71
DUCK ISLAND	HERRING	N	1					
	GULL	MEAN STD	16.4					
GULL ISLAND	HERRING	N	1					
	GULL	MEAN STD	9					
WALLIS	DOUBLE-	N		1		0		
ROCKS	CRESTED CORMORANT	MEAN STD				o.e		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 23478-PENTACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEAR	3		
		Ti .	93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N	10		1			
	GULL	MEAN STD			13.5			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		11.6	9.22	7.2	4.58
AFRICA ROCK	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

LAKE M	ICHIGAN				YEA	R		
7.51000000000000000000000000000000000000			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	-1	1	0	1	1	1
	GULL	MEAN STD	12	15.7		9.17	12.54	2.44
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	11.2			1		
EAST CHICAGO	HERRING	N	1	1		1		
40.00	GULL	MEAN STD	ND	3.13		2.91		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	9.4	12.2		7.51	3.45	0.83

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN				1	
	CORMORANT	STD	100		1		
AGAWA ROCK	HERRING	N	0	1	1	1	1
	GULL	MEAN		8.6	7.34	ND	4.06
		STD	1				
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	(4.1)	(1.4)	3.79	1	1.6
		STD		10000			
	RING-BILLED	N			1	0	
	GULL	MEAN					
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				5.43	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 23467-PENTACHLORODIBENZOFURAN

ST. LAWF	RENCE RIVER		YEAR								
			93	94	95	96	97				
COLONY	SPECIES										
STRACHAN	DOUBLE-	N	- 1]	0	1					
ISLAND	CRESTED	MEAN			- 1						
	CORMORANT	STD									
	HERRING	N	0	0	1	1	1				
	GULL	MEAN		1	ND	ND	ND				
		STD	- 1								
	RING-BILLED	N		0		0					
	GULL	MEAN									
		STD									

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN		1	ND	ND	ND
		STD					
PIGEON ISLAND	DOUBLE-	N			o		
	CRESTED	MEAN					
	CORMORANT	STD				1	
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN					
		STD				1	
	HERRING	N	0	0	ï		
	GULL	MEAN					
		STD					
LITTLE GALLOO	DOUBLE-	N	1		0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD			4	- 1	
	GREAT BLACK-	N	0	0	1	1	
	BACKED GULL	MEAN			1	- 1	
		STD				1	
	HERRING	N	0	0		- 1	
	GULL	MEAN	1		1	- 1	
		STD			1	- 1	
GULL ISLAND,	GREAT BLACK-		0	1		- 1	
PRESQU'ILE	BACKED GULL				1	- 1	
PROVINCIAL		STD	1			1	
PARK	HERRING	N	0		1	- 1	
	GULL	MEAN				- 1	
		STD	4				
LESLIE STREET	HERRING	N	0	0	1	1	1
SPIT	GULL	MEAN			ND	ND	0.15
		STD	1				
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN	- 1		1		
	CORMORANT	STD	0	225			s
	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	ND	0.3
	DINIO D'' :	STD					
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 23467-PENTACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR							
		93	94	95	96	97				
COLONY	SPECIES	47500	717							
NIAGARA RIVER	HERRING	N	0	0	1	1	1			
	GULL	MEAN STD			ND	ND	(0.12)			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	0		1	1	1
COLBORNE	GULL	MEAN			ND	ND	(0.15)
LIGHTHOUSE		STD			100	- 1	
MIDDLE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	ND	0.4
		STD			-	100	
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN				- 1	
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		0			
ISLAND	GULL	MEAN					
		STD					

DETF	DETROIT RIVER			YEAR							
			93	94	95	96	97				
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD	0	0	1 ND	1 ND 0	1 0.27				

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				ND	ND	0.4
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					
CHANNEL SHELTER ISLAND	HERRING GULL	N MEAN STD	0		0	ND ND	ND 1	0.86
DUCK ISLAND	HERRING GULL	N MEAN STD	0					
GULL ISLAND	HERRING GULL	N MEAN STD	0					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 23467-PENTACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEA	3		
		-	93	93	94	95	96	97
COLONY	SPECIES						K-	
HALFMOON	GREAT BLACK	· N			0	1	5	
ISLAND	BACKED GULL	MEAN						
		STD					100	
	HERRING	N		- f	0		180	
	GULL	MEAN				- 1	- 1	
		STD				1		
MOUSE ISLAND	HERRING	N			0	- 1		
	GULL	MEAN					- 1	
		STD			1		1670	
GERTRUDE	RING-BILLED	N			0		-1	
ISLAND	GULL	MEAN						
		STD						
DOUBLE	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN				ND	ND	0.24
		STD			- 1			
AFRICA ROCK	DOUBLE-	N			- 1	0	- 1	
	CRESTED	MEAN			1			
	CORMORANT	STD						

LAKE M	ICHIGAN	3		62	YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	О	O	0	1	1	1
	GULL	MEAN STD			100	ND	ND	ND
GARY, INDIANA	HERRING	N	0			- 1		
	GULL	MEAN STD						
EAST CHICAGO	HERRING	N	0	1	110	3		
	GULL	MEAN STD	8	ND		ND		
BIG SISTER	HERRING	N	0	0	- 1	1	1	1
ISLAND	GULL	MEAN STD	0.00	Ont		ND	ND	ND

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES				6:		
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN				4	
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	0	1	1	1
	GULL	MEAN	1		ND	ND	0.31
		STD				1	
GRANITE	HERRING	N	0	0	1		1
ISLAND	GULL	MEAN		570.	ND	1	0.27
		STD			556654	- 1	
	RING-BILLED	N				0	
	GULL	MEAN					
		STD			1		
SILVER ISLET	HERRING	N			- 1	3	
	GULL	MEAN			- 1	ND	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 124678-HEXACHLORODIBENZOFURAN

ST. LAWRENCE RIVER					YEAR		
		93	94	95	96	97	
COLONY STRACHAN ISLAND	SPECIES DOUBLE- CRESTED CORMORANT HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD N MEAN STD	0	0	0 1 ND	1 ND 0	1 ND

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES				- 6		
SNAKE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	ND	ND
		STD		1			
PIGEON ISLAND	DOUBLE-	N	1		0		
	CRESTED	MEAN				Y	
	CORMORANT	STD	1.0	1			
	GREAT BLACK-		0	0		1	
	BACKED GULL	MEAN		1			
		STD					
	HERRING	N	0	0			
	GULL	MEAN					
		STD		- 1			
LITTLE GALLOO	DOUBLE-	N		- 1	0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD			1		
	GREAT BLACK-		0	0		1	
	BACKED GULL	- 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15	1			1	
		STD			1		
	HERRING	N	0	0		1	
	GULL	MEAN			1		
		STD					
GULL ISLAND,	GREAT BLACK-		0	1	- 1	1	
PRESQU'ILE	BACKED GULL			- 1	4	1.	
PROVINCIAL		STD				1	
PARK	HERRING	N	0	1	1		
	GULL	MEAN	1				
	UEDDINIO	STD		0			
LESLIE STREET	HERRING	N	0	0	ND	0.18	ND
SPIT	GULL	MEAN		1	ND	0.18	NL
HAMILTON	DOUBLE-	STD	1	- 1.	0		
		MEAN			o o		
HARBOUR	CRESTED					1.0	
			0	0	4	- 1	4
			0	o o		0.14	0.15
	GULL				IND	0.14	0.15
	DING BILLED			0		0	
		The second second		U		U	
	GULL	SAN TALE THE STATE OF THE SAN					
	CORMORANT HERRING GULL RING-BILLED GULL	STD N MEAN STD N MEAN STD	0	0	1 ND	0.14 0.00	. (

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 124678-HEXACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR						
			93	94	95	96	97		
COLONY NIAGARA RIVER	SPECIES HERRING	N	0	0	1	1	H		
	GULL	MEAN STD		-1	ND	ND	(0.1		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY PORT COLBORNE	SPECIES HERRING GULL	N MEAN	0		1 ND	1 ND	1 ND
LIGHTHOUSE MIDDLE ISLAND	HERRING GULL	STD N MEAN	o	o	1 ND	1 ND	1 ND
EAST SISTER	DOUBLE- CRESTED	STD N MEAN			o		
ISLAND MIDDLE SISTER	CORMORANT	STD N		o			
ISLAND	GULL	MEAN STD		1			

DETF	ROIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	0	1 ND	1 0.12	0.07			
	RING-BILLED GULL	N MEAN STD				0				

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				ND	0.63	0.13
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					
CHANNEL	HERRING	N	0		0	1	1	1
SHELTER	GULL	MEAN STD				ND	0.31	0.17
DUCK ISLAND	HERRING	N	0				1	
	GULL	MEAN STD						
GULL ISLAND	HERRING	N	0		1	1	1	
	GULL	MEAN STD						
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in $\rho g/g$; all others in $\mu g/g$. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 124678-HEXACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			0			
	GULL	MEAN STD						
GERTRUDE	RING-BILLED	N			o			
ISLAND	GULL	MEAN STD						
DOUBLE	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				ND	ND	0.09
AFRICA ROCK	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

LAKE M	ICHIGAN				YEA	7		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	0	0	0	1	1	1
	GULL	MEAN STD				ND	0.2	ND
GARY, INDIANA	HERRING	N	0					
	GULL	MEAN						
		STD						
EAST CHICAGO	HERRING	N	0	1		1		
	GULL	MEAN STD		ND		ND		
BIG SISTER	HERRING	N	0	0		1	1	1
ISLAND	GULL	MEAN STD				ND	ND	ND

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0	1	
ISLAND	CRESTED	MEAN			47		
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	0	1	1	1
ach towns and	GULL	MEAN			ND	ND	0.14
		STD			1024		
GRANITE	HERRING	N	0	0	1		1
ISLAND	GULL	MEAN			ND		ND
Construction of the Constr		STD					
	RING-BILLED	N				0	
	GULL	MEAN		1			
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				0.28	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 124689-HEXACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY STRACHAN	SPECIES DOUBLE-	N			0		
ISLAND	CRESTED CORMORANT	MEAN STD					5
	HERRING GULL	N MEAN STD	0	0	ND	ND	(0.2)
	RING-BILLED GULL	N MEAN STD		0		0	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	ND	NE
		STD					
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN					
	CORMORANT	STD			- 1		
	GREAT BLACK-		0	0			
	BACKED GULL						
		STD				ľ	
	HERRING	N	0	0			
	GULL	MEAN	110				
		STD					
LITTLE GALLOO		N		1	0		
ISLAND	CRESTED	MEAN				1	
	CORMORANT	STD					
	GREAT BLACK-		0	0	1		
	BACKED GULL		- 14				
		STD	7.1				
	HERRING	N	0	0			
	GULL	MEAN					
CHILLICIAND	GREAT BLACK-	STD	0	1			
GULL ISLAND, PRESQU'ILE	BACKED GULL		0				
PROVINCIAL	BACKED GOLL	STD					
PARK	HERRING	N	0				
FAIN	GULL	MEAN	٥				
	GOLL	STD			1		
LESLIE STREET	HERRING	N	0	0	1	1	1
SPIT	GULL	MEAN			ND	0.26	ND
F6 85		STD					Kinise
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN		- 1			
1 - 40 1	CORMORANT	STD					
	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	0.24	0.29
		STD					
	RING-BILLED	N		0		0	
	GULL	MEAN		2			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 124689-HEXACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR						
- E			93	94	95	96	97		
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0	o	1 ND	1 ND	0.11		

LAKE	ERIE				YEAR		
in the second			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	0		1	1	1
COLBORNE	GULL	MEAN			ND	ND	(0.1)
LIGHTHOUSE	LIEDDING	STD					
MIDDLE ISLAND	HERRING	N	0	0	2	21	1
	GULL	MEAN STD			ND	ND	0.25
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		0			
ISLAND	GULL	MEAN STD					

DETE	ROIT RIVER		YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL RING-BILLED GULL	N MEAN STD N MEAN STD	0	0	1 ND	0.18 0	1 0.1		

LAKE	IURON				YEAR	3		-395
			93	93	94	95	96	97
COLONY	SPECIES							14
CHANTRY	HERRING	N	0	0	0	1	1	
ISLAND	GULL	MEAN STD				ND	0.94	0.16
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					17.35
CHANNEL SHELTER ISLAND	HERRING GULL	N MEAN STD	0		0	0.62	0.69	0.4
DUCK ISLAND	HERRING GULL	N MEAN STD	0					
GULL ISLAND	HERRING GULL	N MEAN STD	0					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 124689-HEXACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD			3			
MOUSE ISLAND	HERRING	N		- 1	0			
	GULL	MEAN STD						
GERTRUDE	RING-BILLED	N			0			
ISLAND	GULL	MEAN STD						
DOUBLE	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				ND	ND	0.16
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED CORMORANT	MEAN STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	0	0	0	1	1	1
	GULL	MEAN STD	250	5.0		ND	0.36	ND
GARY, INDIANA	HERRING	N	0					
THE STATE OF THE S	GULL	MEAN STD	346					
EAST CHICAGO	HERRING	N	0	1		1		
	GULL	MEAN STD		ND		ND		
BIG SISTER	HERRING	N	0	0		3	1	1
ISLAND	GULL	MEAN STD				0.39	ND	ND

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	0.1	0.14
		STD					
GRANITE	HERRING	N	0	0	1	1	1
ISLAND	GULL	MEAN		:50	ND		NE
		STD					
	RING-BILLED	N				0	
	GULL	MEAN					
		STD					
SILVER ISLET	HERRING	N		- 1		1	
	GULL	MEAN				0.55	
	AND PROCESSION OF THE PROCESSI	STD				200000000000000000000000000000000000000	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123478-HEXACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER			38	YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	(0.3)	ND	1.89	0.7
		STD		2 (2)	28		
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

LAKE O	NTARIO				YEAR		
		-	93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	
7	GULL	MEAN	ND	14.4	2.62	2.33	0.71
	NESSON 104	STD	0.537/4	950000	CONTROL OF THE PARTY OF THE PAR		
PIGEON ISLAND	DOUBLE-	N	1		0		
	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-		o	o			
	BACKED GULL	CONTRACTOR AND					
		STD			1		
	HERRING	N	1	1		1	
	GULL	MEAN	ND	ND			
		STD					
LITTLE GALLOO	DOUBLE-	N			ol		
ISLAND	CRESTED	MEAN				1	
	CORMORANT	STD			- 1		
	GREAT BLACK-		0	0			
	BACKED GULL		1	1			
		STD					
	HERRING	N	1	1		- 1	
	GULL	MEAN	ND	(0.7)			
		STD					
GULL ISLAND,	GREAT BLACK-		o				
PRESQU'ILE	BACKED GULL		- 2				
PROVINCIAL		STD			- 1		
PARK	HERRING	N	1				
	GULL	MEAN	ND				
		STD		4			
LESLIE STREET	HERRING	N	1	1	1	1	7
SPIT	GULL	MEAN	ND	ND	1.38	2.18	0.9
		STD		155580			
HAMILTON	DOUBLE-	N		22	0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD				4-1	
	HERRING	N	0	1	1	1	
	GULL	MEAN		3.7	1.64	1.06	0.33
		STD					
	RING-BILLED	N		1		0	
	GULL	MEAN		ND			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123478-HEXACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR							
			93	94	95	96	97			
COLONY NIAGARA RIVER	SPECIES HERRING	N	1	1	1	1	1			
	GULL	MEAN STD	ND	ND	2.09	1.9	0.55			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	ND		ND	0.81	0.28
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	0.6	0.63
EAST SISTER ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0		
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN STD		ND			

DETF	ROIT RIVER				YEAR		
		1	93	94	95	96	97
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 ND	1 ND	1 0.64	1 0.48
	RING-BILLED GULL	N MEAN STD				0	

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES		- 10					
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	2.02	4.28	0.8
MAIDEN ISLAND	HERRING	N	1		1	100		
	GULL	MEAN STD	2.6					
CHANNEL	HERRING	N	1	\ \	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	ND		ND	2.02	3.34	1.26
DUCK ISLAND	HERRING	N	1					
	GULL	MEAN STD	2.8					
GULL ISLAND	HERRING	N	1					
	GULL	MEAN STD	4.2					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in μg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123478-HEXACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEAR	R	Jan .	
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING GULL	N MEAN			0			
MOUSE ISLAND	HERRING GULL	STD N MEAN STD			1 ND			
GERTRUDE ISLAND	RING-BILLED GULL	N MEAN STD			1 ND			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	3.25	1.16	0.85
AFRICA ROCK	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD	ND	ND		1.45	1.62	0.5
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	(0.1)	0.66		0.82		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	ND	(0.1)		1.17	0.35	0.24

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN		1			
	CORMORANT	STD		ľ	- 1		
AGAWA ROCK	HERRING	N	0	1	1	1	1
344	GULL	MEAN	5.000	ND	2.03	1.22	0.97
Access to the second		STD	6				
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	ND	ND	1.5	1	0.38
NOT THE PARTY OF T		STD					
	RING-BILLED	N				o	
	GULL	MEAN					
		STD			- 1		
SILVER ISLET	HERRING	N				1	
	GULL	MEAN	- 1			1.06	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123678-HEXACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0	1	
ISLAND	CRESTED	MEAN					
	CORMORANT	STD				1	
	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	(0.3)	ND	1.29	0.54
		STD		(E) 3(E)			
	RING-BILLED	N		0		0	
	GULL	MEAN				~	
		STD				1	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	10.3	1.91	1	0.69
		STD		1100000			
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN				- 1	
	CORMORANT	STD					
	GREAT BLACK-		0	0	4		
	BACKED GULL	MEAN					
		STD				- 1	
	HERRING	N	1	1		- 1	
	GULL	MEAN	ND	ND			
		STD	0.37-5			1	
LITTLE GALLOO	DOUBLE-	N			0	- 1	
ISLAND	CRESTED	MEAN				- 1	
8 8	CORMORANT	STD					
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN					
		STD		1		1	
	HERRING	N	1	1			
	GULL	MEAN	ND	ND		- 1	
		STD	2000			1	
GULL ISLAND,	GREAT BLACK-		0			1	
PRESQUILE	BACKED GULL					1	
PROVINCIAL	100000000000000000000000000000000000000	STD	591			- 1	
PARK	HERRING	N	1			- 1	
	GULL	MEAN	(0.1)				
		STD			9	2	
LESLIE STREET	HERRING	N	. 1	1	1	1 50	0.70
SPIT	GULL	MEAN	ND	ND	1.15	1.56	0.73
	DOUBLE.	STD					
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD			2		
	HERRING	N	0	4.7	2.07	1.16	0.88
	GULL	MEAN		4.7	2.07	1.16	0.88
	DINO DILLED	STD			- 1		
	RING-BILLED	N		1 ND		0	
	GULL	MEAN STD		ND			
		טוט			1		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123678-HEXACHLORODIBENZOFURAN

NIAGAR		YEAR							
	93 94 95					96	97		
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	1 (0.2)	1 1.65	1 1.5	1 0.59		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES	-					
PORT	HERRING	N	1	1	1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	ND		ND	0.75	0.57
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	(0.1)	1.18	1.49	0.73
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		- 1			
ISLAND	GULL	MEAN STD		(0.1)			

DETE	ROIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 ND	1 0.94	0.88	1 0.56			
	RING-BILLED GULL	N MEAN STD				0				

LAKE	IURON				YEA	R		
		(1)	93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	0	- 1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	2.59	2.71	0.89
MAIDEN ISLAND	HERRING	N	1		- 1	1		
	GULL	MEAN STD	3.5					
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	8.1		(0.8)	3.42	4.66	2.24
DUCK ISLAND	HERRING	N	1		- 1			
	GULL	MEAN STD	5					
GULL ISLAND	HERRING	N	1					
	GULL	MEAN STD	3.8					
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123678-HEXACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEA	R	145	
			93	93	94	95	96	97
COLONY	SPECIES	1/1						
HALFMOON	GREAT BLACK	N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD	,					
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			(0.1)	1		
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		(0.1)	3.11	1.24	1.2
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED CORMORANT	MEAN STD						

LAKE M	ICHIGAN			***	YEA	3		7,117,
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD	ND	7		3.31	2.5	0.92
GARY, INDIANA	HERRING	N	1			0	0	
	GULL	MEAN STD	(0.1)			737-3		
EAST CHICAGO	HERRING	N	1	1		1	- 1	
	GULL	MEAN STD	(0.1)	1.5		1.65		
BIG SISTER	HERRING	N	1	1	0	1	1	1
ISLAND	GULL	MEAN STD	ND	(0.3)		2.24	0.52	0.44

LAKE S	UPERIOR			M+	YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	1	1	1	1
	GULL	MEAN		(0.1)	3.03	1.58	1.38
		STD				1	
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	ND	(2.5)	1.68		0.92
		STD					
	RING-BILLED	N				0	
	GULL	MEAN					
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				1.44	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 123789-HEXACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER				YEAR		
				94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	(0.3)	ND	0.93	0.42
	RING-BILLED	N		0		0	
	GULL	MEAN STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	(0.5)	1.1	1.2	0.29
PIGEON ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0		
	GREAT BLACK- BACKED GULL	N	0	0			
	HERRING	N	1	1			
	GULL	MEAN STD	ND	ND			
LITTLE GALLOO ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			o		
K.	GREAT BLACK- BACKED GULL	N	0	0			
13	HERRING	N	1	1			
	GULL	MEAN STD	ND	(0.35)			
GULL ISLAND, PRESQU'ILE PROVINCIAL	GREAT BLACK- BACKED GULL	N	0		i Vi		
PARK	HERRING GULL	N MEAN STD	1 ND				
LESLIE STREET SPIT	HERRING GULL	N MEAN STD	1 ND	1 ND	1 1.15	1.06	0.38
HAMILTON HARBOUR	DOUBLE- CRESTED CORMORANT	N MEAN STD			0		
	HERRING	N	0	4	4	4	1
	GULL	MEAN		12.8	1.32	1.08	0.86
	RING-BILLED GULL	N		1 ND		0	
		STD			1.32	44	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

NIAGARA RIVER			YEAR						
			93	94	95	96	97		
COLONY	SPECIES								
NIAGARA RIVER	HERRING	N	1	1	1	1	1		
	GULL	MEAN STD	ND	(0.2)	0.8	1.05	0.32		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE LIGHTHOUSE	GULL	MEAN STD	ND		ND	0.89	0.45
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	(0.8)	1.06	1.13	0.84
EAST SISTER ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0		
MIDDLE SISTER ISLAND	HERRING GULL	N MEAN STD		0 (0.1)			

DETR	DETROIT RIVER			YEAR						
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	o	1 ND	1 ND	1 1	1 0.56			
	RING-BILLED GULL	N MEAN STD				0				

LAKE H	HURON				YEA	R		3
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	1.27	2.82	0.96
MAIDEN ISLAND	HERRING	N	1				I	
	GULL	MEAN STD	7.8					
CHANNEL	HERRING	N	1	1	1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	ND		(8.0)	3.32	2.95	1.41
DUCK ISLAND	HERRING	N	1	1				
	GULL	MEAN STD	3.2					
GULL ISLAND	HERRING	N	1			ľ	1	
	GULL	MEAN STD	1.1					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED*
123789-HEXACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEAR	3		
			93	93	94	95	96	97
COLONY	SPECIES				100		Ne establica	
HALFMOON	GREAT BLACK	N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0			
	GULL	MEAN STD			389			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN STD			(0.1)			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			ND			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		(0.1)	1.81	1.18	0.87
AFRICA ROCK	DOUBLE-	N				o		
	CRESTED	MEAN				53		
	CORMORANT	STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES	,		3(8 - 2 - 8)				
GULL ISLAND	HERRING	N	1	1	0	1	1	1
14	GULL	MEAN STD	(0.1)	6.6		1.88	2.18	0.45
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	11.1					
EAST CHICAGO	HERRING	N	1	1	- 1	1		
	GULL	MEAN STD	(0.3)	1.72		1.55		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	ND	8.6		1.56	0.36	0.42

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			o		
ISLAND	CRESTED	MEAN					
4 1 1 1	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	1	1	1	1
	GULL	MEAN		ND	2.89	1.12	0.94
N. Carrier		STD					
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	ND	(2.4)	0.74		0.48
12		STD		82 (47)			
	RING-BILLED	N				0	
	GULL	MEAN					
		STD				- 1	
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				1.45	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 234678-HEXACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES	Stoats					
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	1	1	1	1	. 1
	GULL	MEAN	ND	ND	ND	(0.19)	ND
	4	STD					
	RING-BILLED	N		0		0	
	GULL	MEAN					
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES					CONTRACTOR OF THE PARTY OF THE	
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	0.38
		STD					
PIGEON ISLAND		N			0		
	CRESTED	MEAN				- 1	
	CORMORANT	STD					
	GREAT BLACK-		0	0		- 1	
	BACKED GULL				- 1		
		STD				- 1	
	HERRING	N	1	1	l l		
	GULL	MEAN	ND	ND			
T Parameter Charles Control of Carlos		STD		1			
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN				1	
	CORMORANT	STD	5.21	623			
	GREAT BLACK-		0	0			
	BACKED GULL				- 1	1	
		STD			1		
	HERRING	N	. 1	1	- 1	- 1	
	GULL	MEAN	ND	(0.52)			
CHILL ISLAND	GREAT BLACK-	STD	0		- 1		
GULL ISLAND, PRESQU'ILE	BACKED GULL		.0				
PROVINCIAL	BACKED GOLL	STD			- 1		
PARK	HERRING	N	1				
Ain	GULL	MEAN	ND		- 1		
	GOLL	STD	140				
LESLIE STREET	HERRING	N	1	1	-1	1	1
SPIT	GULL	MEAN	ND	ND	ND	0.46	ND.
0	0022	STD	,,,,	.,,		0.10	110
HAMILTON	DOUBLE-	N		1	0		
HARBOUR	CRESTED	MEAN					
NAT TOTAL TARREST	CORMORANT	STD			1	1	
	HERRING	N	0	1	1	1	1
	GULL	MEAN		(0.1)	(0.17)	0.38	0.28
	The research of the Control of the C	STD					
	RING-BILLED	N		1		0	
	GULL	MEAN		ND		100	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 234678-HEXACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR						
			93	94	95	96	97		
COLONY NIAGARA RIVER		N	1	1	1	1	1		
	GULL	MEAN STD	ND	ND	ND	ND	0.12		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	ND		ND	ND	0.15
LIGHTHOUSE		STD		4.4			
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD					
EAST SISTER	DOUBLE-	N		- 7	0		
ISLAND	CRESTED	MEAN					
Maria Caraca	CORMORANT	STD		- 1	1	- 1	
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		ND			
Name of the Control o		STD					

DETR	DETROIT RIVER				YEAR		
			93	94	95	96	97
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 ND	1 ND	1 0.72	0.12
4.	RING-BILLED GULL	N MEAN STD				0	

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	ND	ND	0.16
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER	GULL	MEAN STD	ND		(0.4)	ND	0.09	0.13
DUCK ISLAND	HERRING	N	1		1	1		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GULL	MEAN STD	7.6					
GULL ISLAND	HERRING	N	1)					
	GULL	MEAN STD	2.2					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 234678-HEXACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEA	R		
	S 8		93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N		1	0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N		1	0			
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N	- 1		1	- 1		
	GULL	MEAN STD			ND			
GERTRUDE	RING-BILLED	N		- 1	1	1	1	
ISLAND	GULL	MEAN STD	- }		ND			
DOUBLE	HERRING	N	1	o	1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	ND	ND	0.22
AFRICA ROCK	DOUBLE-	N	394			0		
	CRESTED CORMORANT	MEAN STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD	ND	ND		(0.55)	0.6	0.16
GARY, INDIANA	HERRING	N	1			1		
	GULL	MEAN STD	ND					
EAST CHICAGO	HERRING	N	1	1	- 1	1	- 1	
	GULL	MEAN STD	(0.3)	ND		ND		
BIG SISTER	HERRING	N	1	1.		1	1	1
ISLAND	GULL	MEAN STD	(0.1)	ND		(0.29)	(0.1)	0.24

LAKE S	UPERIOR				YEAR	5.5	
			93	94	95	96	97
COLONY	SPECIES				-		
STEAMBOAT	DOUBLE-	N			0	1	
ISLAND	CRESTED	MEAN	J			1	
	CORMORANT	STD				1	
AGAWA ROCK	HERRING	N	0	1	1	1	1
	GULL	MEAN	1	ND	1.29	0.46	0.17
		STD	- 1			11.52.50.40	
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	ND	(0.1)	ND		(0.15)
		STD		8.0			
	RING-BILLED	N	1	1		o	
	GULL	MEAN					
		STD	J		- 1		
SILVER ISLET	HERRING	N				1	
	GULL	MEAN	- 1		1	0.37	
		STD			- 1	VENTERO	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234678-HEPTACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY STRACHAN	SPECIES DOUBLE-	N			0		
ISLAND	CRESTED	MEAN STD					
	HERRING	N	1	1	1	1	1
	GULL	MEAN STD	ND	ND	ND	1	0.38
	RING-BILLED GULL	N MEAN STD		0		0	

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	58.2	1.2	0.53	0.33
		STD				3000	
PIGEON ISLAND		N			0		
	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-		0	0			
	BACKED GULL						
		STD					
	HERRING	N	1	1			
	GULL	MEAN	ND	ND			
	terra en velleva.	STD					
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD	W. 60				
	GREAT BLACK-		0	0			
	BACKED GULL						
	LIEBBILIO	STD					
	HERRING	N	1	10 101			
	GULL	MEAN	ND	(0.12)			
CHILL ICLAND	CDEAT DI ACK	STD					
GULL ISLAND, PRESQU'ILE	GREAT BLACK- BACKED GULL	MEAN	0				
PROVINCIAL	BACKED GULL	STD					
PARK	HERRING	N	1				
FARK	GULL	MEAN	ND				
	GOLL	STD	ND				
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	ND	ND	0.84	0.68	0.95
1,30	GULL	STD	.,,,	,	0.0 1	0.00	0.00
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN					
3.577.53.389,389,329,340.	CORMORANT	STD		1.0			
	HERRING	N	0	1	1	1	1
	GULL	MEAN		(0.3)	1.06	1.08	0.59
		STD			2007	0.00	
	RING-BILLED	N		1		0	
	GULL	MEAN		(0.3)			
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234678-HEPTACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR							
			93	94	95	96	97			
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	1 ND	1 ND	1 1.49	1 1.17	1 0.32			

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	ND		0.45	0.4	0.42
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	0.6	ND
		STD					
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN				1	
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		1			
ISLAND	GULL	MEAN		ND			
		STD					

DETF	DETROIT RIVER			YEAR						
			93	94	95	96	97			
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 ND	1 1.06	1 2.16	1 0.71			
	RING-BILLED GULL	N MEAN STD				0				

LAKE	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	0.91	0.78	0.31
MAIDEN ISLAND	HERRING	N	1		- 1			
	GULL	MEAN STD	ND					
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	(0.1)		(0.6)	2.8	2.65	1.35
DUCK ISLAND	HERRING	N	1		- 1		- 1	
	GULL	MEAN STD	ND					
GULL ISLAND	HERRING	N	1					
	GULL	MEAN STD	ND					
WALLIS	DOUBLE-	N	1		- 1	0		
ROCKS	CRESTED CORMORANT	MEAN STD	ND					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans; () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234678-HEPTACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEAR	3		
		-	93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N			0			
ISLAND	BACKED GULL	MEAN STD						
	HERRING	N			0	- 1		
	GULL	MEAN STD						
MOUSE ISLAND	HERRING	N			1			
A - 45 T 46 E 24 E 24 E 24 E 24 E 25 E 25 E 25 E 25	GULL	MEAN STD	X.		ND			
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN STD			(0.4)			
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND		ND	1.19	ND	0.73
AFRICA ROCK	DOUBLE-	N				0		
MINNESON CONTROL STATE OF THE S	CRESTED	MEAN				5757	- 1	
	CORMORANT	STD						

LAKE M	CHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY	SPECIES	HERV	y)					50 26
GULL ISLAND	HERRING	N	1	1	0	1	1	1
	GULL	MEAN STD .	ND	ND		0.81	0.5	0.21
GARY, INDIANA	HERRING	N	1					
	GULL	MEAN STD	ND			1		
EAST CHICAGO	HERRING	N	1	1		1		
	GULL	MEAN STD	(1.6)	0.75		8.0		
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	ND	ND		0.86	ND	(0.17)

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN	1				
	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	1	1	.1	1
	GULL	MEAN		ND	1.49	0.48	0.48
		STD				1	
GRANITE	HERRING	N	1	1	1		1
ISLAND	GULL	MEAN	ND	ND	1.04		0.84
	+2	STD		10			
	RING-BILLED	N				0	
	GULL	MEAN					
		STD					
SILVER ISLET	HERRING	N				1	
	GULL	MEAN				0.83	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in $\rho g/g$; all others in $\mu g/g$. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234689-HEPTACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N		1	0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD		1	1		
	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	ND	ND
		STD					
	RING-BILLED	N		o		0	
	GULL	MEAN					
		STD					

LAIL	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	0	0	1	1	1
	GULL	MEAN	1		ND	ND	NE
		STD			8		
PIGEON ISLAND	DOUBLE-	N		1	0	1	
	CRESTED	MEAN	- 97		1		
	CORMORANT	STD		1			
	GREAT BLACK-	N	0	0	- 1		
	BACKED GULL	MEAN			1		
		STD					
	HERRING	N	0	0			
	GULL	MEAN			1		
		STD	I		1		
LITTLE GALLOO	DOUBLE-	N	1		0		
ISLAND	CRESTED	MEAN		1		1	
	CORMORANT	STD					
	GREAT BLACK-		0	0			
	BACKED GULL	SCHOOL STORY OF THE PARTY OF TH	1		- 1		
		STD					
	HERRING	N	0	0			
	GULL	MEAN				1	
	Victorianicazione engistro	STD		1			
GULL ISLAND,	GREAT BLACK-		0			1	
PRESQU'ILE	BACKED GULL		- 1		1		
PROVINCIAL	WWW.commission	STD					
PARK	HERRING	N	0	1			
	GULL	MEAN					
EQUIE OTREET	LIEDDING	STD				9	
LESLIE STREET	HERRING	N	0	0	ND	ND	NE
SPIT	GULL	MEAN STD			ND	ND	INL
HAMILTON	DOLIBLE	N			0		
HAMILTON HARBOUR	DOUBLE- CRESTED	MEAN			۷		
HARBOUR		STD	1				
	CORMORANT	N	o	o	1	1	1
	GULL	MEAN	U	U	ND	0.22	NE
	GULL	STD			ND	0.22	NL
	RING-BILLED	N		0		0	
	GULL	MEAN		U		٥	
	GULL	STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234689-HEPTACHLORODIBENZOFURAN

NIAGAR		YEAR							
			93	94	95	96	97		
COLONY NIAGARA RIVER	SPECIES HERRING GULL	N MEAN STD	0	0	1 ND	1 ND	1 ND		

LAKE	ERIE				YEAR		
Co. and I			93	94	95	96	97
COLONY	SPECIES						
PORT	HERRING	N	0		1	1	1
COLBORNE	GULL	MEAN			ND	ND	ND
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	0	0	1	1	1
4.1	GULL	MEAN			ND	ND	ND
1.4		STD					
EAST SISTER	DOUBLE-	N			o		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
MIDDLE SISTER	HERRING	N		0			
ISLAND	GULL	MEAN					
		STD				2.31	

DETF	ROIT RIVER		YEAR							
			93	94	95	96	97			
COLONY FIGHTING	SPECIES HERRING	N	0	0	1	1	1			
ISLAND	GULL	MEAN STD			ND	ND	ND			
	RING-BILLED GULL	N MEAN STD				0				

LAKE H	HURON				YEA	R		Ly
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				ND	ND	ND
MAIDEN ISLAND	HERRING GULL	N MEAN STD	0					
CHANNEL SHELTER ISLAND	HERRING GULL	N MEAN STD	0		0	1 ND	1 ND	ND
DUCK ISLAND	HERRING GULL	N MEAN STD	0					
GULL ISLAND	HERRING GULL	N MEAN STD	0					
WALLIS ROCKS	DOUBLE- CRESTED CORMORANT	N MEAN STD				0		

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234689-HEPTACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)				YEA	R		
	2		93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK-	N			0	1		
ISLAND	BACKED GULL	MEAN STD						
	HERRING GULL	N MEAN			0			
MOUSE ISLAND		STD N			o	İ		
	GULL	MEAN STD		1				
GERTRUDE	RING-BILLED	N			0			
ISLAND	GULL	MEAN STD						
DOUBLE	HERRING	N	0	0	0	1	1	1
ISLAND	GULL	MEAN STD				ND	ND	ND
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED	MEAN						
	CORMORANT	STD						

LAKE M	ICHIGAN	-			YEA	R		
A.VIII.IIV4-0 - VA.FIII.			93	94	94	95	96	97
COLONY	SPECIES							
GULL ISLAND	HERRING	N	0	0	0	1	1	1
	GULL	MEAN STD			60	ND	ND	ND
GARY, INDIANA	HERRING GULL	N MEAN STD	0					
EAST CHICAGO	HERRING	N	0	1	-	1	- 1	
	GULL	MEAN STD		ND		ND		
BIG SISTER	HERRING	N	0	0		1	1	1
ISLAND	GULL	MEAN STD				ND	ND	ND

LAKE S	UPERIOR				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN		1		1	
	CORMORANT	STD	1				
AGAWA ROCK	HERRING	N	0	0	1	1	1
	GULL	MEAN			ND	ND	ND
	SCORPERON POWERS	STD					
GRANITE	HERRING	N	0	0	1		1
ISLAND	GULL	MEAN	~ ~		ND		ND
		STD				1	
	RING-BILLED	N		1	1.	o	
	GULL	MEAN					
		STD			1	1	
SILVER ISLET	HERRING	N			1	1	
	GULL	MEAN				ND	
		STD					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234789-HEPTACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER				YEAR	140-5	. The
			93	94	95	96	97
COLONY	SPECIES						_
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
14	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	0.19	(0.09)
		STD					61 0
	RING-BILLED	N		0		0	
	GULL	MEAN		erco		~	
		STD					

LAKE O	NTARIO		**************************************		YEAR		
			93	94	95	96	97
COLONY	SPECIES			17			-
SNAKE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	0.1
		STD	85 KEPAN TE	5555555	2000		
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN					
		STD					
	HERRING	N	1	1			
	GULL	MEAN	ND	ND			
KINYO MATA WALIO TIMBINI DAKATI		STD					
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
N.	CORMORANT	STD	- 1				
	GREAT BLACK-		0	0			
	BACKED GULL						
		STD					
	HERRING	N	1	1			
-	GULL	MEAN	ND	ND			
mental and the angle		STD					
GULL ISLAND,	GREAT BLACK-		0				
PRESQU'ILE	BACKED GULL						
PROVINCIAL	LIEBBING	STD	520				
PARK	HERRING	N	1				
	GULL	MEAN	ND				
LEGILE OTDEET	LIEDDING	STD	- 4	-	4	4	4
LESLIE STREET	HERRING	N	ND	1 ND	0.22	0.22	0.22
SPIT	GULL	MEAN	ND	ND	0.22	0.22	0.22
LIANUI TON	DOUBLE	STD			o		
HAMILTON HARBOUR	DOUBLE- CRESTED	MEAN			٥		
HARBOUR	CORMORANT	STD					
	HERRING	N	0	(4)	. 1	4	1
	GULL	MEAN	U	(0.2)	ND	0.22	0.2
-3-	GULL	STD		(0.2)	ND	0.22	0.2
	RING-BILLED	N		1		o	
	GULL	MEAN		ND		J	
	GULL	STD		NU			
		210					

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234789-HEPTACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR						
			93	94	95	96	97		
COLONY NIAGARA RIVER		N	1	1	1	1	1		
	GULL	MEAN STD	ND	ND	ND	(0.24)	NE		

LAKE	ERIE				YEAR		
			93	94	95	96	97
COLONY	SPECIES		***	12-15-21-12-1			
PORT	HERRING	N	1		1	1	1
COLBORNE	GULL	MEAN	ND		ND	ND	ND
LIGHTHOUSE		STD					
MIDDLE ISLAND	HERRING	N	1	1	1	1	1
	GULL	MEAN	ND	ND	ND	ND	ND
		STD					
MIDDLE SISTER	HERRING	N	- 1	1			
ISLAND	GULL	MEAN		ND			
		STD	- 1			1	
EAST SISTER	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					

DETF	ROIT RIVER		YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 ND	1 ND	1 0.4	(0.14)		
	RING-BILLED GULL	N MEAN STD				0			

LAKE I	HURON				YEA	R		
			93	93	94	95	96	97
COLONY	SPECIES							
CHANTRY	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN STD	ND	2.0	ND	ND	ND	(0.1)
MAIDEN ISLAND	HERRING	N	1	1				
	GULL	MEAN STD	ND					
CHANNEL	HERRING	N	1		1	1	1	1
SHELTER ISLAND	GULL	MEAN STD	ND		(0.6)	ND	0.18	0.17
DUCK ISLAND	HERRING	N	1					
	GULL	MEAN STD	ND					
GULL ISLAND	HERRING	N	1				1.	
	GULL	MEAN STD	0.1					
WALLIS	DOUBLE-	N				0		
ROCKS	CRESTED CORMORANT	MEAN STD						

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* 1234789-HEPTACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)	50.0	a washin bankin		YEA	3	17 184	e was necessarians
			93	93	94	95	96	97
COLONY	SPECIES							
HALFMOON	GREAT BLACK	- N		1	0			
ISLAND	BACKED GULL	MEAN	1					
		STD					V	
	HERRING	N			0		k:	
	GULL	MEAN						
£		STD			J			
MOUSE ISLAND	HERRING	N			1			
	GULL	MEAN			ND			
		STD						
GERTRUDE	RING-BILLED	N			1			
ISLAND	GULL	MEAN			ND			
		STD						
DOUBLE	HERRING	N	1	0	1	1	1	1
ISLAND	GULL	MEAN	ND		ND	ND	ND	0.11
		STD						
AFRICA ROCK	DOUBLE-	N				0		
	CRESTED	MEAN				-		
	CORMORANT	STD						

LAKE M	ICHIGAN				YEA	R		
			93	94	94	95	96	97
COLONY GULL ISLAND	SPECIES HERRING GULL	N MEAN	1 ND	1 ND	0	1 ND	1 0.14	(0.03
GARY, INDIANA	HERRING	STD N	1	112		8 3		Ç
	GULL	MEAN STD	ND					
BIG SISTER	HERRING	N	1	1		1	1	1
ISLAND	GULL	MEAN STD	ND	ND		(0.4)	ND	ND
EAST CHICAGO	HERRING	N	3	1		1		
	GULL	MEAN STD	ND	ND		ND		4

LAKE S	UPERIOR			700	YEAR	201	
			93	94	95	96	97
COLONY	SPECIES						
STEAMBOAT	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
CONTRACTOR CONTRACTOR	CORMORANT	STD					
AGAWA ROCK	HERRING	N	0	1	1	13	2.5
	GULL	MEAN		ND	0.9	0.12	NE
37.		STD		1100100	***************************************		
GRANITE	HERRING	N	1	1	1		9)8
ISLAND	GULL	MEAN	ND	ND	ND		(0.1
		STD				77.5	
	RING-BILLED	N				0	
	GULL	MEAN					
		STD		- 1			
SILVER ISLET	HERRING	N				1	
	GULL	MEAN STD				0.18	

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OCTACHLORODIBENZOFURAN

ST. LAW	RENCE RIVER				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
STRACHAN	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	HERRING	N	- 1	1	1	- 1	1
	GULL	MEAN	ND	(0.6)	ND	0.51	ND
		STD					
	RING-BILLED	N		0	- 1	0	
	GULL	MEAN					
		STD					

LAKE O	NTARIO				YEAR		
			93	94	95	96	97
COLONY	SPECIES						
SNAKE ISLAND	HERRING	N	_1	1	1	1	1
	GULL	MEAN	ND	ND	ND	1.07	NE
		STD					
PIGEON ISLAND	DOUBLE-	N			0		
	CRESTED	MEAN			- 1		
	CORMORANT	STD					
	GREAT BLACK-		0	0			
	BACKED GULL	MEAN			- 1		
		STD					
	HERRING	N	1	1			
	GULL	MEAN	ND	(0.1)			
		STD	-				
LITTLE GALLOO	DOUBLE-	N			0		
ISLAND	CRESTED	MEAN					
	CORMORANT	STD					
	GREAT BLACK-	N	0	0			
	BACKED GULL	MEAN					
		STD					
	HERRING	N	1	1			
	GULL	MEAN	ND	ND			
		STD					
GULL ISLAND,	GREAT BLACK-		0		- 1		
PRESQU'ILE	BACKED GULL	MEAN					
PROVINCIAL		STD					
PARK	HERRING	N	1				
	GULL	MEAN	ND				
		STD				20	
LESLIE STREET	HERRING	N	1	1	1	1	1
SPIT	GULL	MEAN	ND	ND	0.97	0.44	0.77
LAND TON	DOUBLE.	STD					
HAMILTON	DOUBLE-	N			0		
HARBOUR	CRESTED	MEAN					
	CORMORANT	STD	-	4		- 2	
	HERRING	N	0	(0.7)	ND	0.50	1
	GULL	MEAN		(0.7)	ND	0.56	ND
	DINC BILLED	STD				0	
	RING-BILLED	N		(0.7)		0	
	GULL	MEAN		(0.7)			
		STD	-				

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g, all others in μg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED* OCTACHLORODIBENZOFURAN

NIAGARA RIVER			YEAR						
			93	94	95	96	97		
COLONY NIAGARA RIVER		N	1	1	1	1	1		
THE CO.	GULL	MEAN STD	ND	ND	0.48	ND	NE		

LAKE ERIE			YEAR							
Contract of the Contract of th			93	94	95	96	97			
COLONY	SPECIES	8660								
PORT	HERRING	N	1		1	1	1			
COLBORNE LIGHTHOUSE	GULL	MEAN STD	ND		ND	ND	ND			
MIDDLE ISLAND	HERRING	N	1	1	3	1	1			
	GULL	MEAN STD	ND	ND	ND	ND	ND			
EAST SISTER ISLAND	DOUBLE- CRESTED CORMORANT	N MEAN STD			0					
MIDDLE SISTER	HERRING	N		1						
ISLAND	GULL	MEAN STD		ND						

DETROIT RIVER			YEAR						
			93	94	95	96	97		
COLONY FIGHTING ISLAND	SPECIES HERRING GULL	N MEAN STD	0	1 ND	1 0.65	1 0.98	1 0.56		
A.	RING-BILLED GULL	N MEAN STD				0			

LAKE H	IURON		YEAR							
14/1-1-1			93	93	94	95	96	97		
COLONY	SPECIES									
CHANTRY	HERRING	N	1	0	1	1	1	-		
ISLAND	GULL	MEAN STD	ND		ND	0.44	1.33	0.61		
MAIDEN ISLAND	HERRING	N	1							
	GULL	MEAN STD	ND							
CHANNEL	HERRING	N	1	- 1	1	1	. 1	- JP 4		
SHELTER	GULL	MEAN STD	ND		ND	0.31	0.54	NE		
DUCK ISLAND	HERRING	N	1			1				
Ara L	GULL	MEAN STD	ND					1		
GULL ISLAND	HERRING	N	1	1						
	GULL	MEAN STD	ND							
WALLIS	DOUBLE-	N				0				
ROCKS	CRESTED CORMORANT	MEAN STD								

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

TABLE 11. CONTAMINANT DATA SUMMARIZED BY COMPOUND ANALYZED*
OCTACHLORODIBENZOFURAN

LAKE HUR	ON (CONT.)		YEAR							
			93	93	94	95	96	97		
COLONY	SPECIES									
HALFMOON	GREAT BLACK	- N			0					
ISLAND	BACKED GULL	MEAN STD								
	HERRING	N			0					
	GULL	MEAN STD	1							
MOUSE ISLAND	HERRING	N	- 1		1		1			
	GULL	MEAN STD			ND					
GERTRUDE	RING-BILLED	N	1		1					
ISLAND	GULL	MEAN STD			ND					
DOUBLE	HERRING	N	1	0	1	1	1	1		
ISLAND	GULL	MEAN STD	ND		ND	0.23	0.22	NE		
AFRICA ROCK	DOUBLE- CRESTED CORMORANT	N MEAN STD				0				

LAKE MICHIGAN			YEAR							
			93	94	94	95	96	97		
COLONY	SPECIES									
GULL ISLAND	HERRING	N	1	1	0	1	1	1		
9	GULL	MEAN STD	ND	ND		ND	ND	ND		
GARY, INDIANA	HERRING	N	1							
	GULL	MEAN STD	(0.2)							
EAST CHICAGO	HERRING	N	1	1		1				
	GULL	MEAN STD	ND	ND		ND				
BIG SISTER	HERRING	N	1	1		1	1	1		
ISLAND	GULL	MEAN STD	ND	ND		ND	ND	ND		

LAKE S	UPERIOR		YEAR							
			93	94	95	96	97			
COLONY	SPECIES									
STEAMBOAT	DOUBLE-	N	- 1	- 1	0	1				
ISLAND	CRESTED	MEAN				1				
	CORMORANT	STD	1		- 1					
AGAWA ROCK	HERRING	N		1	-1	1	1			
	GULL	MEAN	0	ND	3.57	0.38	ND			
		STD								
GRANITE	HERRING	N	1	1	1		1			
ISLAND	GULL	MEAN	ND	(0.1)	(0.56)		ND			
		STD		//4/30//2		1				
	RING-BILLED	N				0				
	GULL	MEAN	1							
		STD								
SILVER ISLET	HERRING	N				1				
	GULL	MEAN				0.48				
		STD								

^{*} All units measured on a wet weight basis. Dioxins and furans measured in pg/g; all others in µg/g. Percent lipid and percent moisture given in percent. For all compounds: ND indicates not detected. For organochlorines and PCBs: TR indicates trace amount. For dioxins and furans: () indicates trace amounts below the detection limit; i indicates compound detected at the incorrect ion ratio. See page 10 for methodology.

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