

Watershed Summary Information

Accounting Unit Name: Western Lake Erie
State(s): MI OH
Political Boundaries: Monroe, Lucas, Wayne, Washtenaw, Fulton
Major Waterways: Swan Cr
Ottawa Cr
Stony Cr
Swan Cr, N Br
Number of Stations in Watershed: Tier1 - 13
Tier2 - 15
Tier3 - 1



Figure 63. Watershed Location Map

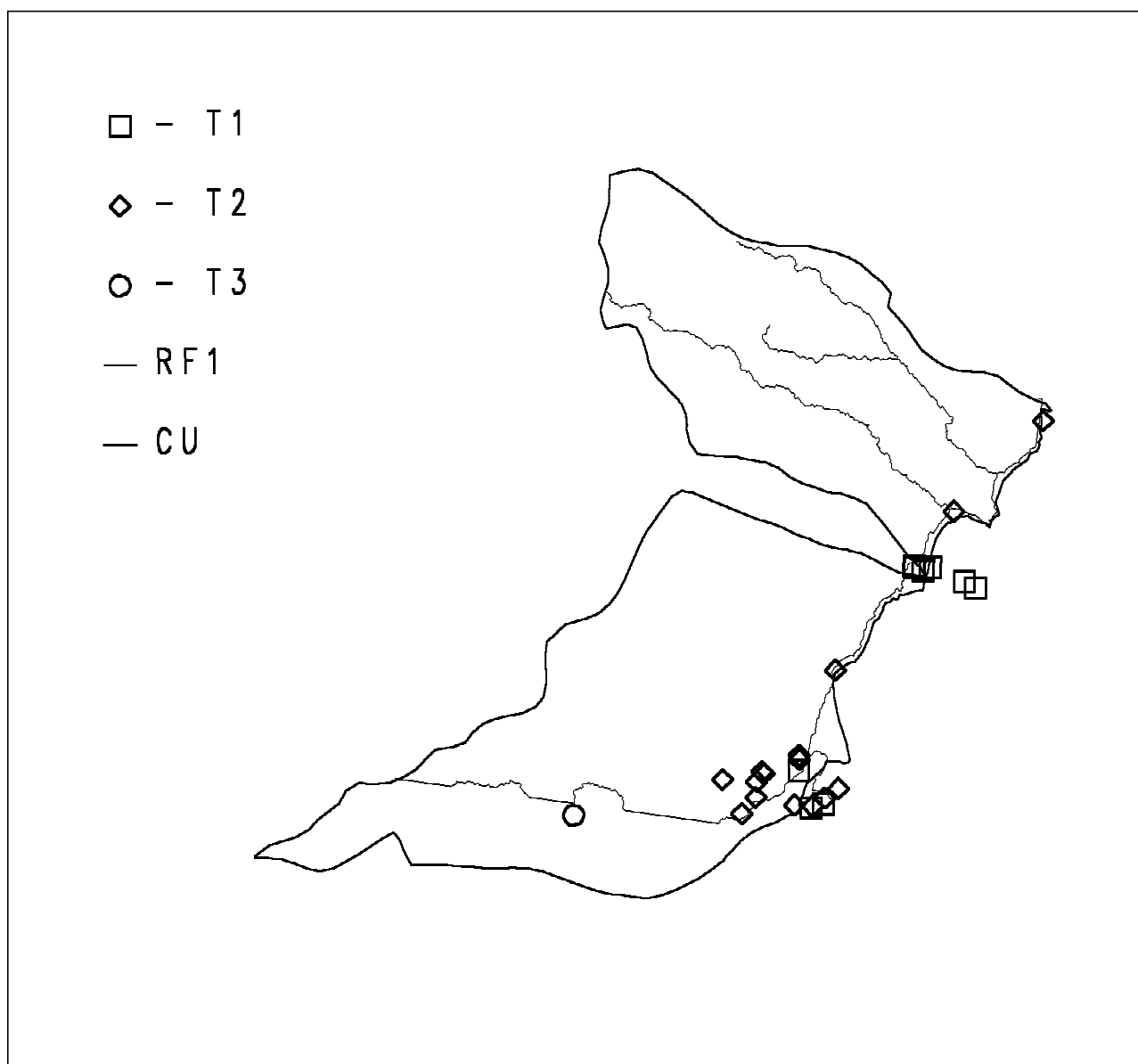


Figure 64. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **STORET** Agency: **11COEBUF**

Monitoring Program: **Corps of Engineers Data Buffalo District**

Num. of Stations: 3 Date Range: 1983-88

Source: **STORET** Agency: **1115GLSB**

Monitoring Program: **USEPA Region 5 Great Lakes Surveillance Branch Data**

Num. of Stations: 7 Date Range: 1981-85

Source: **STORET** Agency: **115LHRES**

Monitoring Program: **Grosse Ile Lab Data EPA Large Lakes Res Lab**

Num. of Stations: 10 Date Range: 1983-84

Source: **STORET** Agency: **21MICH**

Monitoring Program: **Michigan Dept of Nat Res Surface Water Quality Data - Surface Water Quality Division**

Num. of Stations: 1 Date Range: 1980

Source: **STORET** Agency: **21OHIO**

Monitoring Program: **Ohio EPA Water, Sediment, Tissue And Drinking Water Data**

Num. of Stations: 8 Date Range: 1986-92

Chemicals Responsible for Sampling Station Classification as Tier 1 or Tier 2

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Copper	18	16	.	16	.	16	.	.
Nickel	18	16	.	16	.	16	.	.
Polychlorinated biphenyls	18	15	12	3	11	3	1	14
Lead	17	14	.	14	.	14	.	.
DDT	16	12	3	9	3	8	.	4
Cadmium	19	12	.	12	.	12	.	.
Zinc	18	12	.	12	.	12	.	.
Bis(2-ethylhexyl)phthalate	10	10	3	7	3	7	.	3
Aldrin	11	8	.	8	.	.	.	8
Chromium	19	7	1	6	1	6	.	.
Fluoranthene	8	7	1	6	1	6	.	.
Phenanthrene	7	6	2	4	2	4	.	.
Pyrene	8	6	1	5	1	5	.	.
Chlordane	14	6	.	6	.	5	.	1
Benzo(a)anthracene/Chrysene	5	5	3	2	3	2	.	5
Naphthalene	8	5	3	2	3	2	.	.
Arsenic	10	5	.	5	.	5	.	.
Dieldrin	9	5	.	5	.	4	.	5
Fluorene	8	5	.	5	.	5	.	.
Mercury	14	5	.	5	.	5	.	.
Benzo(a)pyrene	6	4	2	2	2	2	.	4
BHC	12	3	1	2	1	2	.	1
Methylnaphthalene, 2-	3	3	1	2	1	2	.	.
Acenaphthene	5	2	.	2	.	2	.	.
Anthracene	5	2	.	2	.	2	.	.
Benzo(ghi)perylene	5	2	.	2	.	2	.	.
Heptachlor	8	2	.	2	.	.	.	2
Anthracene&Phenanthrene	1	1	1	.	1	.	.	.
Dibenzo(a,h)anthracene	4	1	1	.	1	.	.	1
Cresol, p-	1	1	.	1	.	1	.	.
Dimethylphenol, 2,4-	4	1	.	1	.	1	.	.
Heptachlor epoxide	9	1	.	1	.	.	.	1
Hexachlorobenzene	15	1	.	1	.	1	.	.

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Indeno(1,2,3-cd)pyrene	4	1	.	1	.	1	.	1
Methoxychlor	10	1	.	1	.	1	.	.
Phenol	5	1	.	1	.	1	.	.

Sediment Chemistry Data: Chemical Summary

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Acenaphthene	5	28.00	0.00	2	100.00	40.00
Acenaphthylene	3	0.00	0.00	0	.	.
Acrylonitrile	3	0.00	0.00	0	.	.
Aldrin	22	33.84	3.05	16	588.00	1.21
Anthracene	8	103.77	0.00	3	770.00	0.12
Anthracene&Phenanthrene	1	1410.00	1410.00	1	1410.00	1410.00
Arsenic	13	11826.15	8990.00	13	22000.00	4340.00
Benzene	4	3.00	0.00	1	12.00	12.00
Benzo(a)anthracene	6	0.00	0.00	0	.	.
Benzo(a)anthracene/Chrysene	5	4148.00	3660.00	5	12070.00	410.00
Benzo(a)pyrene	9	1772.21	0.00	4	11060.00	739.90
Benzo(b)fluoranthene	3	0.00	0.00	0	.	.
Benzo(ghi)perylene	8	1015.00	0.00	2	7370.00	750.00
Benzo(k)fluoranthene	6	0.00	0.00	0	.	.
Bis(2-ethylhexyl)phthalate	13	2638.63	680.00	12	15550.00	0.18
Butyl benzyl phthalate	6	0.00	0.00	0	.	.
BHC	43	4.18	0.00	19	93.00	0.03
Cadmium	21	4267.67	2000.00	20	36000.00	118.00
Chlordane	60	1.28	0.69	54	11.00	0.21
Chlorobenzene	6	0.00	0.00	0	.	.
Chromium	21	61217.62	29500.00	21	490000.0	9000.00
Chrysene	6	0.17	0.00	1	1.05	1.05
Copper	21	115841.4	50990.00	21	1500000	5000.00
Cresol, p-	1	7240.00	7240.00	1	7240.00	7240.00
Di-n-butyl phthalate	11	181.36	0.00	5	1150.00	60.00
Di-n-octyl phthalate	6	0.00	0.00	0	.	.
Dibenzo(a,h)anthracene	7	294285.9	0.00	2	2060000	1.05
Dibenzofuran	2	90.00	90.00	2	160.00	20.00
Dibromochloromethane	3	0.00	0.00	0	.	.
Dichlorobenzene, 1,2-	6	0.00	0.00	0	.	.
Dichlorobenzene, 1,3-	6	0.00	0.00	0	.	.
Dichlorobenzene, 1,4-	4	15.00	0.00	1	60.00	60.00
Dichloroethane 1,2-	3	0.00	0.00	0	.	.
Dichloroethene, trans-1,2-	3	0.00	0.00	0	.	.
Dichloromethane	5	6.44	4.00	5	17.00	1.20

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Dichloropropane, 1,2-	3	0.00	0.00	0	.	.
Dieldrin	15	7.65	0.31	9	61.15	0.09
Diethyl phthalate	6	0.00	0.00	0	.	.
Dimethyl phthalate	6	0.00	0.00	0	.	.
Dimethylphenol, 2,4-	4	167.50	0.00	1	670.00	670.00
Dioxins	3	0.00	0.00	0	.	.
DCPA/Dacthal	2	9.50	9.50	2	12.00	7.00
DDT	116	7.46	3.17	97	152.00	0.07
Endosulfan, alpha-	7	0.14	0.00	1	1.00	1.00
Endosulfan, beta-	10	1.00	0.00	3	5.00	1.00
Endrin	25	1.13	0.89	19	4.43	0.37
Ethylbenzene	3	0.00	0.00	0	.	.
Fluoranthene	11	987.31	250.00	10	5560.00	0.41
Fluorene	8	118.75	115.00	5	310.00	100.00
Heptachlor	15	3.35	0.10	9	35.02	0.06
Heptachlor epoxide	14	62.37	0.16	8	870.00	0.10
Hexachlorobenzene	22	4.12	0.57	19	63.00	0.29
Hexachlorobutadiene	3	0.00	0.00	0	.	.
Hexachloroethane	3	0.00	0.00	0	.	.
Indeno(1,2,3-cd)pyrene	7	440.00	0.00	1	3080.00	3080.00
Isophorone	3	0.00	0.00	0	.	.
Lead	20	58398.00	44745.00	19	135000.0	9180.00
Mercury	16	118.78	100.00	14	500.00	0.03
Methoxychlor	17	11.01	1.02	14	171.00	0.11
Methylnaphthalene, 2-	3	1133.33	130.00	3	3240.00	30.00
Mirex/Dechlorane	3	0.00	0.00	0	.	.
Naphthalene	8	486.33	180.00	6	1920.00	0.65
Nickel	21	48403.33	32000.00	21	170000.0	5000.00
Nitrosodiphenylamine, N-	3	0.00	0.00	0	.	.
Pentachlorobenzene	20	0.25	0.20	20	0.62	0.15
Pentachlorophenol	3	0.00	0.00	0	.	.
Phenanthrene	10	531.20	160.00	9	2630.00	0.53
Phenol	5	592.00	0.00	2	2890.00	70.00
Polychlorinated biphenyls	108	705.00	19.03	69	16440.00	6.01
Pyrene	11	887.45	210.00	9	4920.00	0.12
Silver	7	85.71	0.00	2	300.00	300.00
Tetrachloroethane, 1,1,2,2-	4	3.25	0.00	1	13.00	13.00
Tetrachloroethene	3	0.00	0.00	0	.	.
Tetrachloromethane	3	0.00	0.00	0	.	.
Toluene	4	1.25	0.00	1	5.00	5.00
Toxaphene	6	0.00	0.00	0	.	.
Tribromomethane/Bromoform	4	3.25	0.00	1	13.00	13.00
Trichlorobenzene, 1,2,4-	3	0.00	0.00	0	.	.
Trichloroethane, 1,1,1-	3	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Trichloroethane, 1,1,2-	3	0.00	0.00	0	.	.
Trichloroethene	6	8.50	3.50	3	24.00	7.00
Trichlorofluoromethane	3	0.00	0.00	0	.	.
Trichloromethane/Chloroform	3	0.00	0.00	0	.	.
Zinc	21	212633.3	150000.0	21	1000000	21000.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Cadmium	9	0.00	0.00	0	.	.
Chlordane	9	287.22	230.00	7	710.00	70.00
Chromium	9	36.67	0.00	3	130.00	100.00
Dieldrin	9	15.56	0.00	2	90.00	50.00
DDT	36	252.78	235.00	30	913.00	23.00
Heptachlor epoxide	9	0.00	0.00	0	.	.
Hexachlorobenzene	9	7.56	5.00	5	23.00	5.00
Mercury	9	71.11	0.00	4	200.00	130.00
Polychlorinated biphenyls	36	3919.53	2475.00	29	22450.00	53.00
Toxaphene	9	0.00	0.00	0	.	.