

Watershed Summary Information

Accounting Unit Name:	Southwestern Lake Michigan
State(s):	IL WI
Political Boundaries:	Kenosha, Racine, Cook, Milwaukee, Lake, Lake, Waukesha
Major Waterways:	Root R Pike R
Number of Stations in Watershed:	Tier1 - 34 Tier2 - 30 Tier3 - 8

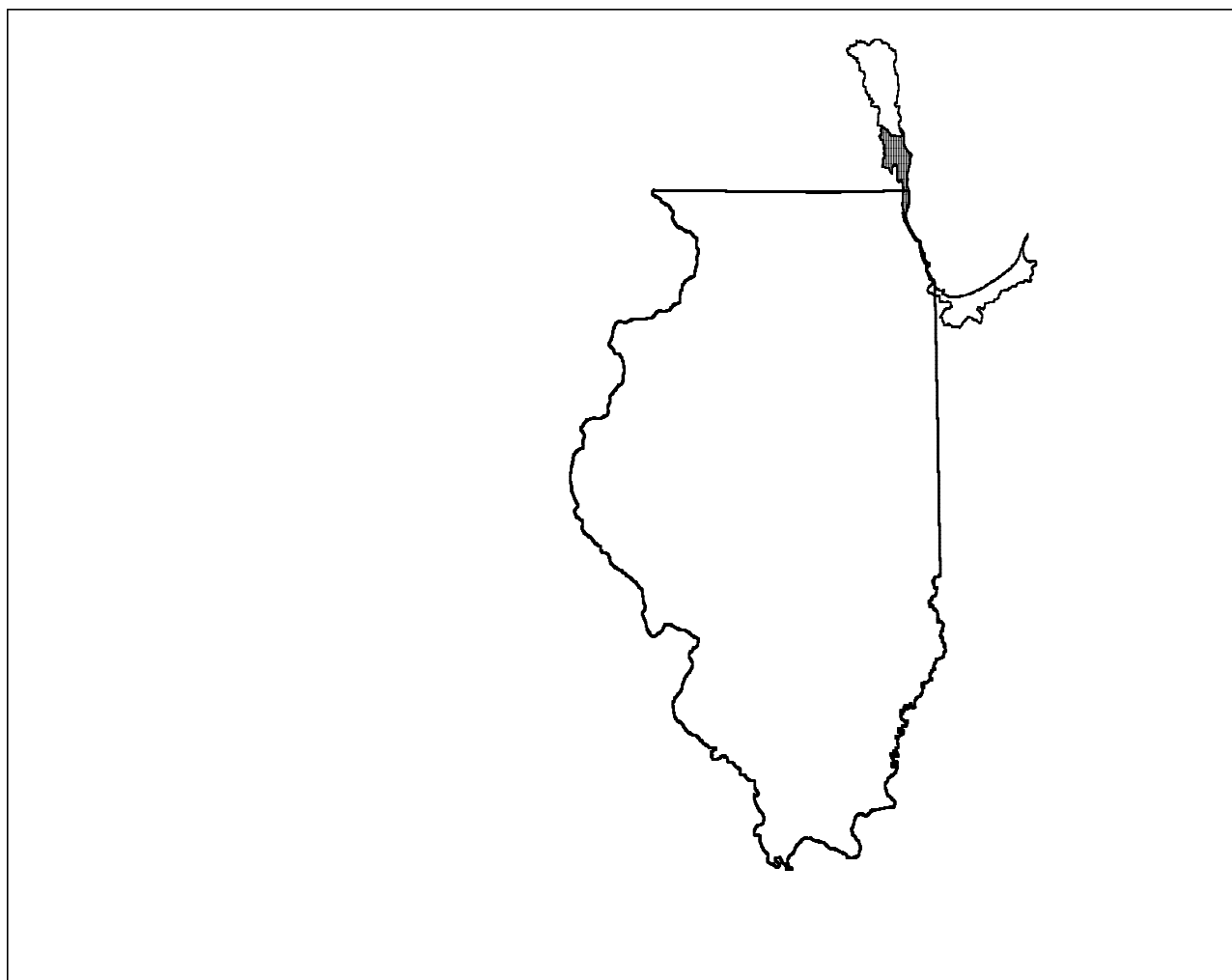


Figure 51. Watershed Location Map

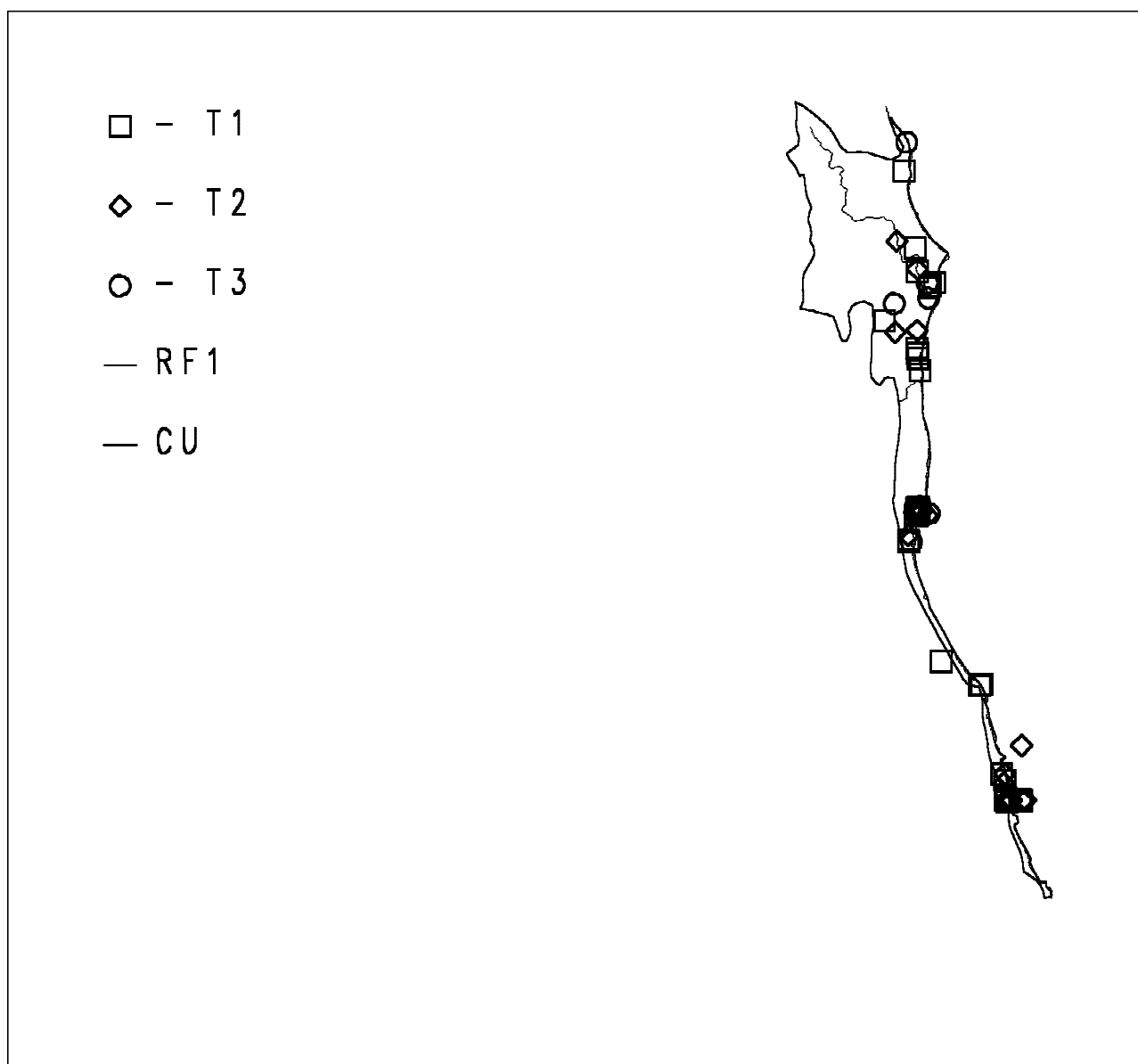


Figure 52. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **STORET** Agency: **11COECHI**
 Monitoring Program: **Corps of Engineers Data Chicago District**
 Num. of Stations: 25 Date Range: 1980-81

Source: **STORET** Agency: **1115GLSB**
 Monitoring Program: **USEPA Region 5 Great Lakes Surveillance Branch Data**
 Num. of Stations: 6 Date Range: 1980

Source: **STORET** Agency: **21ILFISH**
 Monitoring Program: **USEPA Region 5 Data**
 Num. of Stations: 5 Date Range: 1981-91

Source: **STORET** Agency: **21ILLAKE**
Monitoring Program: **USEPA Region 5 Data**
Num. of Stations: 3 Date Range: 1989-91

Source: **STORET** Agency: **21ILSED**
Monitoring Program: **Illinois EPA Div of Water Pollution Control Data**
Num. of Stations: 14 Date Range: 1980-92

Source: **STORET** Agency: **21WIS**
Monitoring Program: **Wisconsin DNR Div Env Protection Water And Sediment Data**
Num. of Stations: 2 Date Range: 1980-91

Source: **STORET** Agency: **21WITIS**
Monitoring Program: **Tissue Data Wisconsin Dept of Nat Res Div of Environ Protection**
Num. of Stations: 17 Date Range: 1980-90

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
Polychlorinated biphenyls	61	39	28	11	13	7	15	24
Copper	48	39	.	39	.	39	.	.
Lead	51	37	.	37	.	37	.	.
Arsenic	51	29	1	28	1	27	.	1
Cadmium	51	25	.	25	.	25	.	.
Zinc	36	22	.	22	.	22	.	.
Mercury	54	21	5	16	5	16	.	.
DDT	40	16	3	13	3	1	.	15
Dieldrin	38	15	.	15	.	1	.	15
Chromium	51	11	1	10	1	10	.	.
Nickel	27	8	.	8	.	8	.	.
Chlordane	38	7	.	7	.	.	.	7
Pyrene	8	4	1	3	1	3	.	.
Bis(2-ethylhexyl)phthalate	11	3	1	2	1	2	.	1
Heptachlor epoxide	23	3	.	3	.	.	.	3
Silver	17	2	2	.	2	.	.	.
Fluoranthene	8	2	.	2	.	2	.	.
Heptachlor	24	2	.	2	.	.	.	2
Chrysene	8	1	1	.	1	.	.	.
Aldrin	24	1	.	1	.	.	.	1
Anthracene	8	1	.	1	.	1	.	.
Benzo(b)fluoranthene	8	1	.	1	.	1	.	1
Fluorene	8	1	.	1	.	1	.	.
Hexachlorobenzene	23	1	.	1	.	1	.	.
Indeno(1,2,3-cd)pyrene	8	1	.	1	.	.	.	1
Toluene	1	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	8	57.50	0.00	1	460.00	460.00
Acenaphthylene	8	0.00	0.00	0	.	.
Aldrin	23	0.00	0.00	0	.	.
Anthracene	8	73.75	0.00	1	590.00	590.00
Antimony	28	5000.00	0.00	2	80000.00	60000.00
Arsenic	67	10717.61	7000.00	64	71000.00	1000.00
Benzo(a)anthracene	7	0.00	0.00	0	.	.
Benzo(a)pyrene	7	0.00	0.00	0	.	.
Benzo(b)fluoranthene	8	450.00	0.00	1	3600.00	3600.00
Benzo(ghi)perylene	8	60.00	0.00	1	480.00	480.00
Benzo(k)fluoranthene	8	237.50	0.00	1	1900.00	1900.00
Benzoic acid	7	0.00	0.00	0	.	.
Benzyl alcohol	7	0.00	0.00	0	.	.
Bis(2-ethylhexyl)phthalate	11	549.64	4.00	6	4200.00	4.00
Bromophenyl phenyl ether, 4-	7	0.00	0.00	0	.	.
Butyl benzyl phthalate	7	0.00	0.00	0	.	.
BHC	50	0.00	0.00	0	.	.
Cadmium	67	3161.79	0.00	27	74000.00	1000.00
Chlordane	71	0.00	0.00	0	.	.
Chromium	67	33250.75	16000.00	50	520000.0	4000.00
Chrysene	8	475.00	0.00	1	3800.00	3800.00
Copper	64	68015.63	39000.00	58	600000.0	2000.00
Cresol, o	7	0.00	0.00	0	.	.
Cresol, p-	7	88.57	0.00	1	620.00	620.00
Di-n-butyl phthalate	7	0.00	0.00	0	.	.
Di-n-octyl phthalate	7	0.00	0.00	0	.	.
Dibenzo(a,h)anthracene	8	0.00	0.00	0	.	.
Dibenzofuran	7	0.00	0.00	0	.	.
Dichlorobenzene, 1,2-	7	0.00	0.00	0	.	.
Dichlorobenzene, 1,3-	7	0.00	0.00	0	.	.
Dichlorobenzene, 1,4-	6	0.00	0.00	0	.	.
Dieldrin	23	0.38	0.00	1	8.70	8.70
Diethyl phthalate	7	0.00	0.00	0	.	.
Dimethyl phthalate	7	0.00	0.00	0	.	.
Dimethylphenol, 2,4-	7	0.00	0.00	0	.	.
Dioxins	1	0.00	0.00	0	.	.
DDT	158	28.43	0.00	13	1830.00	0.04
Endosulfan, alpha-	1	0.00	0.00	0	.	.
Endosulfan, beta-	1	0.00	0.00	0	.	.
Endrin	23	0.00	0.00	0	.	.
Fluoranthene	8	860.00	0.00	3	5600.00	620.00
Fluorene	8	58.75	0.00	1	470.00	470.00

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Heptachlor	25	6.16	0.00	2	82.00	72.00
Heptachlor epoxide	23	0.05	0.00	1	1.10	1.10
Hexachlorobenzene	27	1.81	0.00	1	49.00	49.00
Hexachlorobutadiene	7	0.00	0.00	0	.	.
Hexachloroethane	7	0.00	0.00	0	.	.
Indeno(1,2,3-cd)pyrene	8	80.00	0.00	1	640.00	640.00
Isophorone	7	0.00	0.00	0	.	.
Lead	67	444522.4	54000.00	53	12000000	7000.00
Mercury	67	240.04	0.00	31	5000.00	10.00
Methoxychlor	22	0.00	0.00	0	.	.
Methylnaphthalene, 2-	7	0.00	0.00	0	.	.
Naphthalene	7	0.00	0.00	0	.	.
Nickel	44	23113.64	3000.00	22	400000.0	6000.00
Pentachlorophenol	7	0.00	0.00	0	.	.
Phenanthrene	8	475.00	0.00	1	3800.00	3800.00
Phenol	7	0.00	0.00	0	.	.
Polychlorinated biphenyls	248	341.43	0.00	29	19000.00	7.00
Pyrene	8	832.50	290.00	4	4800.00	580.00
Silver	19	1210.53	0.00	2	13000.00	10000.00
Toluene	1	3900.00	3900.00	1	3900.00	3900.00
Toxaphene	1	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	7	0.00	0.00	0	.	.
Zinc	55	156200.0	87000.00	41	1400000	15000.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	42	0.48	0.00	2	20.00	0.02
Arsenic	18	12.22	0.00	3	140.00	30.00
BHC	76	0.79	0.00	6	10.00	10.00
Cadmium	18	5.00	0.00	1	90.00	90.00
Chlordane	198	26.41	0.00	47	310.00	10.00
Chromium	18	155.56	0.00	3	2200.00	300.00
Copper	18	2014.44	1750.00	18	8600.00	260.00
Dieldrin	74	46.81	31.50	53	450.00	0.03
DDT	280	244.02	0.00	118	6600.00	33.00
Endrin	42	0.00	0.00	0	.	.
Heptachlor	25	0.00	0.00	0	.	.
Heptachlor epoxide	29	8.35	0.02	19	33.00	0.01
Hexachlorobenzene	39	0.00	0.00	2	0.01	0.01
Lead	18	0.00	0.00	0	.	.
Mercury	29	78.41	50.00	28	630.00	10.00

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Methoxychlor	40	0.00	0.00	0	.	.
Mirex/Dechlorane	22	0.00	0.00	0	.	.
Pentachlorophenol	9	0.00	0.00	0	.	.
Polychlorinated biphenyls	90	3237.09	1400.00	77	37000.00	110.00
Toxaphene	25	0.00	0.00	0	.	.
Trichlorophenol, 2,4,5-	2	0.00	0.00	0	.	.
Trichlorophenol, 2,4,6-	2	0.00	0.00	0	.	.