

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***RESEARCH AND DEVELOPMENT
DEPARTMENT***

REPORT NO. 06-83

2005 ANNUAL SUMMARY REPORT

**WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF
THE METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO**

December 2006

Metropolitan Water Reclamation District of Greater Chicago
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2005 ANNUAL SUMMARY REPORT
WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF
THE METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO

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Parameter	Sample Mean during 2005	Violation History through 2005	Mean History through 2005
	Page	Page	Page
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Carbonaceous Biochemical Oxygen Demand	AII-1		AII-64
Chemical Oxygen Demand			AII-65
Dissolved Oxygen	AII-1	AII-18	AII-66
Temperature	AII-1	AII-19	AII-67
pH	AII-2	AII-20	AII-68
Alkalinity (Total)	AII-2		AII-69
Chloride	AII-2	AII-21	AII-70
Turbidity	AII-2		AII-71
Electrical Conductivity			AII-72
Total Kjeldahl Nitrogen	AII-3		AII-73
Ammonium Nitrogen	AII-3	AII-22	AII-74
Un-ionized Ammonia	AII-3	AII-23	AII-75
Organic Nitrogen	AII-3		AII-76
Nitrite Plus Nitrate Nitrogen	AII-4		AII-77
Total Solids	AII-4		AII-78
Total Volatile Solids			AII-79
Total Suspended Solids	AII-4		AII-80
Volatile Suspended Solids	AII-4		AII-81
Total Dissolved Solids	AII-5	AII-24	AII-82
Phenols	AII-5	AII-25	AII-83
Sulfate	AII-5	AII-26	AII-84
Fats, Oils, and Greases	AII-5	AII-27	AII-85
Total Phosphorus	AII-6		AII-86
Soluble Phosphorus			AII-87

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Parameter	Sample Mean during 2005	Violation History through 2005	Mean History through 2005
	Page	Page	Page
Total Cyanide	AII-6	AII-28	AII-88
Weak Acid Dissociable Cyanide	AII-6	AII-29	AII-89
Fluoride	AII-6	AII-30	AII-90
Total Organic Carbon	AII-7		AII-91
Fecal Coliform	AII-7	AII-31	AII-92
Escherichia Coli	AII-7		AII-93
Total Calcium	AII-7		AII-94
Total Magnesium	AII-8		AII-95
Hardness	AII-8		AII-96
Gross Alpha Radioactivity	AII-8		AII-97
Gross Beta Radioactivity	AII-8	AII-32	AII-98
Chlorophyll <i>a</i>	AII-9		AII-99
Benzene*		AII-33	
Benzene	AII-9	AII-34	AII-100
Ethylbenzene	AII-9	AII-35	AII-101
Toluene	AII-9	AII-36	AII-102
Xylene	AII-10	AII-37	AII-103
Total Silver	AII-10	AII-38	AII-104
Total Arsenic	AII-10	AII-39	AII-105
Total Barium	AII-10	AII-40	AII-106
Total Boron	AII-11	AII-41	AII-107
Total Cadmium	AII-11	AII-42	AII-108
Total Copper	AII-11	AII-43	AII-109
Total Chromium	AII-11	AII-44	AII-110
Total Hexavalent Chromium	AII-12	AII-45	AII-111

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Parameter	Sample Mean during 2005	Violation History through 2005	Mean History through 2005
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Total Lead	AII-12	AII-47	AII-113
Total Nickel	AII-12	AII-48	AII-114
Total Manganese	AII-13	AII-49	AII-115
Total Mercury*		AII-50	
Total Mercury	AII-13	AII-51	AII-116
Total Zinc	AII-13	AII-52	AII-117
Total Selenium	AII-13	AII-53	AII-118
Soluble Calcium	AII-14		AII-119
Soluble Magnesium	AII-14		AII-120
Soluble Silver	AII-14		AII-121
Soluble Arsenic	AII-14	AII-54	AII-122
Soluble Barium	AII-15		AII-123
Soluble Boron	AII-15		AII-124
Soluble Cadmium	AII-15	AII-55	AII-125
Soluble Copper	AII-15	AII-56	AII-126
Soluble Chromium	AII-16	AII-57	AII-127
Soluble Iron	AII-16	AII-58	AII-128
Soluble Lead	AII-16	AII-59	AII-129
Soluble Nickel	AII-16	AII-60	AII-130
Soluble Manganese	AII-17		AII-131
Soluble Mercury	AII-17	AII-61	AII-132
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*Due to Human Health Standard in General Use Waters

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DISCLAIMER

Mention of proprietary equipment and chemicals in this report does not constitute endorsement by the Metropolitan Water Reclamation District of Greater Chicago.

SUMMARY AND CONCLUSIONS

Surface water quality data gathered by the Metropolitan Water Reclamation District of Greater Chicago (District) for the waterway systems within its jurisdiction have been evaluated for compliance with the Illinois Pollution Control Board (IPCB) water quality standards for the year 2005. In addition, the District compared these data with data for 2004.

Compliance with Water Quality Standards During 2005

General Use Waters. Thirty-one out of 68 water quality parameters assayed had applicable IPCB standards. They were dissolved oxygen, temperature, pH, chloride, ammonium nitrogen, total dissolved solids, phenols, sulfate, weak acid dissociable cyanide, fluoride, fecal coliform, gross beta radioactivity, benzene, ethylbenzene, toluene, xylene, total silver, total barium, total boron, total hexavalent chromium, total manganese, total selenium, soluble arsenic, soluble cadmium, soluble copper, soluble chromium, soluble iron, soluble lead, soluble nickel, soluble mercury, and soluble zinc. Two parameters (benzene and total mercury) had IPCB Human Health Standards. Water sample points were located throughout the five river systems including the General Use sectors of the Chicago River System, the Calumet River System, the Des Plaines River System, the West Branch of the Du Page River System, and the Fox River System (Poplar Creek).

Twenty-one water quality parameters were in total compliance with the standards in all river systems. They were ammonium nitrogen, phenols, weak acid dissociable cyanide, gross beta radioactivity, benzene, ethylbenzene, toluene, xylene, total silver, total barium, total boron, total selenium, soluble arsenic, soluble cadmium, soluble copper, soluble chromium, soluble iron, soluble lead, soluble nickel, soluble mercury, and soluble zinc. Benzene had total compliance with the Human Health Standard in all river systems.

Of the remaining 10 parameters, eight parameters (dissolved oxygen, temperature, pH, chloride, sulfate, fluoride, total hexavalent chromium, and total manganese) had compliance rates greater than 81.0 percent in all River Systems. Total dissolved solids had compliance rates of 80.5, 76.5, and 80.3 percent, respectively, in the Chicago, Calumet, and Des Plaines River Systems. Fecal coliform had the lowest compliance rate in the range of 38.6 to 45.8 percent in all river systems. The compliance rates for total mercury due to Human Health Standard were 70.6, 73.6, and 85.0 percent, respectively, in the Chicago, Calumet, and Des Plaines River Systems.

A comparison of 2005 data with 2004 data indicated that there was no significant difference between 2005 and 2004 compliance rates with water quality standards except for pH, total dissolved solids, fecal coliform, and total mercury. In the Chicago River System, the compliance rate for pH significantly decreased from total compliance in 2004 to 89.8 percent in 2005, and the compliance rate for total dissolved solids significantly decreased from 91.0 percent in 2004 to 80.5 percent in 2005. In the Des Plaines River System, the compliance rate for pH significantly decreased from total compliance in 2004 to 97.3 percent in 2005, the compliance rate for total dissolved solids significantly decreased from 87.3 percent in 2004 to 80.3 percent in 2005, the compliance rate for fecal coliform significantly decreased from 50.1 percent in 2004 to 38.6

percent in 2005, and the compliance rate for total mercury significantly increased from 75.7 percent in 2004 to 85.0 percent in 2005.

Comparison of data for Human Health Standards indicated that there was no significant difference between 2005 and 2004 compliance rates except for total mercury. Only in the Des Plaines River System, the compliance rate for total mercury significantly increased from 75.7 percent in 2004 to 85.0 percent in 2005.

Secondary Contact and Indigenous Aquatic Life Waters. This water use classification is principally applied to the man-made navigable canal system in the Chicago and Calumet River Systems. Twenty-three water quality parameters measured in the secondary contact waters during 2005 had applicable IPCB standards. They were dissolved oxygen; temperature; pH; un-ionized ammonia; total dissolved solids; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total iron; total lead; total nickel; total manganese; total mercury; total zinc; total selenium; and soluble iron.

Sixteen parameters were in complete compliance with the IPCB standards in the Chicago and Calumet River Systems in 2005. They were temperature; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total nickel; total manganese; total zinc; total selenium; and soluble iron.

The remaining seven parameters (dissolved oxygen, pH, un-ionized ammonia, total dissolved solids, total iron, total lead, and total mercury) had compliance rates greater than 94.0 percent in both river systems.

A comparison of 2005 data with 2004 data indicated that there was no significant difference between 2005 and 2004 compliance rates with water quality standards except for pH. In the Calumet River System, the compliance rate for pH significantly decreased from total compliance in 2004 to 94.2 percent in 2005.

INTRODUCTION

It is the responsibility of the District to conduct monitoring of the water quality of the streams and canals within its jurisdiction. Detailed annual water quality summaries (similar to this report) of all water quality data collected have been published by the District for the years 1972 through 2004. Complete tabulations of waterway surveillance data collected by the District are available for the years 1970 through 2005.

It should be noted that the Illinois Environmental Protection Agency (IEPA) has also conducted water quality sampling programs within the District's waterways, and has published annual summaries of its water quality network computerized database since 1971. These findings were consistent and supportive of the District's evaluation.

The primary purpose of this report is to establish a repository for the waterways data, and to present them in a variety of formats judged to be most useful to the reader. The tables included in the appendices are self contained to facilitate reproduction and transmittal of specific data requests.

In addition to the data formats included in Appendices AI, AII, and AIII, custom data presentation formats are available in hardcopy and electronic media.

WATER QUALITY NETWORK

Description of Waterways

The District is responsible for monitoring the quality of the waterways that are impacted by its operations. A map depicting the waterways is shown in Figure 1. These include both man-made and natural waterways. Principal manmade water courses are: the North Shore Channel, connecting Lake Michigan at Wilmette to the North Branch of the Chicago River; the Chicago Sanitary and Ship Canal (Main Channel), extending from Damen Avenue to the Lockport Powerhouse; and the Calumet-Sag Channel, connecting the Little Calumet River with the Main Channel. The functions of the canal system are to:

- Provide navigational facilities for boats and barges.
- Serve as receiving waters for the tributary streams and water reclamation plant (WRP) effluents, combined sewer overflows, and stormwater runoffs.
- Convey the flows from the Lake Michigan watershed to the Des Plaines River watershed through the waterway system, exiting at the Lockport Powerhouse.

The principal natural river systems germane to the Districts surveillance programs are: the Chicago River System, branches flowing south from Lake County into the North Branch of the Chicago River; the Des Plaines River System, flowing south from Lake County and joining with the discharge from the Main Channel downstream of the powerhouse at Lockport; and the Calumet River System, which flows into the Calumet-Sag Channel.

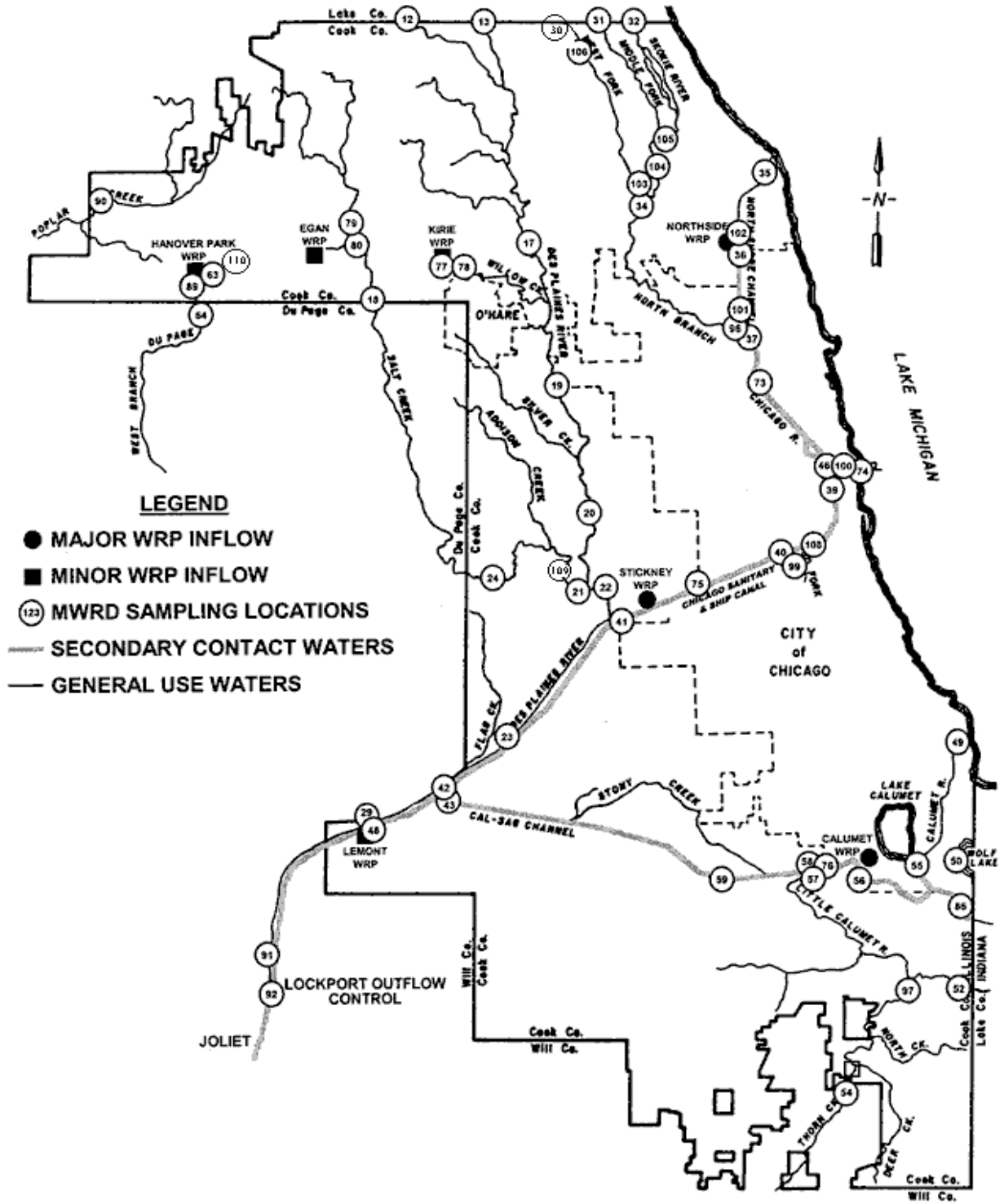
Water Use Designations. IPCB Regulations, Section 303.201, specify that "Except as otherwise specifically provided, all waters of the State must meet the General Use standards for Subpart B of Part 302. Section 303.441 delineates those waters which do not qualify for General Use but "... are designated as Secondary Contact and Indigenous Aquatic Life Waters (Secondary Contact Waters) and must meet the water quality standards of Subpart D, Part 302." The waters within District boundaries classified for use as Secondary Contact Waters are shown in Figure 1. In general, the Secondary Contact Waters coincide with the manmade canals or modified waterways in the Chicago and Calumet River Systems. A complete listing of the District's waterways sampling station water use designations is shown in Table AI-2, Appendix AI.

Scope of Waterways Data

The waterways data management system was designed to store and manage data resulting from the assays of water samples taken at locations throughout the District's waterways. In addition to storage, retrieval, and update capabilities, the system includes programs for:

- The generation of reports and graphs.
- The generation of annual summary statistics.

FIGURE 1: WATERWAYS SERVICE AREA AND SAMPLING LOCATION POINTS



- Comparisons of water quality with state of Illinois stream standards.
- Comparisons of water quality with the results of previous years.

The major computations of data are presented in Appendices AII and AIII, and in tables appearing in the main body of this report. The water quality parameter directory is shown in Appendix AI. Water quality parameters assayed in 2005 and sampling stations are listed in Tables AI-1 and AI-2, respectively.

Summary water quality results for 2005 are listed in Appendix II. Annual mean values of all water quality parameters assayed at all stations sampled (grab samples only) are tabulated in Table AII-1. This table presents the numerical values of various water quality parameters, which can be used to determine any relationships that exist among them. The results of the violations of the standards are tabulated in Tables AII-2 through AII-46. Note that Tables AII-2 through AII-46 list the sampling locations where violations occurred during 2005 and their most recent eight-year history.

In comparing data from a historical perspective, it is desirable to view summary data from past years together with data from the current year. Tables AII-47 through AII-118 (Appendix II) were designed to present the mean values of various parameters for 1993 through 2004, with the 2005 mean values for each parameter and all locations sampled.

Finally, Tables AIII-1 through AIII-5 were prepared to present comprehensive statistical analysis required to show whether the upstream and downstream means of various water quality parameters for each Water Reclamation Plant (WRP) are significantly different.

Water Sampling

Surface water grab samples were taken at 59 locations during 2005. Their locations, as well as the locations of recently discontinued sampling stations, are as shown in Figure 1. The samples were taken on a nominal monthly frequency, with one of the three principal river systems being sampled on a given day. The total number of samples collected monthly in each river system during 2005 is shown in Table 1. Note, that samples taken in the West Branch of the DuPage River (upstream and downstream of the Hanover Park WRP outfall), and in the Fox River System (Poplar Creek) are included with the Des Plaines River data. In addition, weekly grab samples were taken at the Lockport Powerhouse because of an inoperative automatic sampler.

Reconstruction of the Lockport Powerhouse during 1998 resulted in the Treblar sampler being inactivated. Grab sampling at the Lockport Powerhouse was initiated once per week in 1998 as a substitute for the inoperative sampler. This sampling was discontinued in April 2002. Sampling at the Lockport Powerhouse was replaced by collecting weekly grab samples at location 92 (Lockport Forebay) in 2002.

Locations sampled in the respective river systems during 2005 are shown without an asterisk in Table AI-2 of Appendix AI. Twenty-six sites were sampled in the Chicago River System, 13 sites in the Calumet River System, and 20 sites in the Des Plaines River System (including 4

TABLE 1: TOTAL NUMBER OF WATERWAYS (BRIDGE RUNS) SAMPLES
COLLECTED MONTHLY DURING 2005

Month	River System		
	Chicago	Calumet	Des Plaines
January	24	6	18
February	29	13	19
March	28	13	19
April	29	12	20
May	29	11	18
June	28	11	19
July	28	13	19
August	30	13	18
September	28	12	18
October	30	13	19
November	29	13	20
December	21	12	15

locations in the DuPage and Fox River Systems). The waterways system sampling station numbers correspond to the map numbers shown in Figure 1. The waterways system sampling station numbers correspond to the map numbers shown in Figure 1. The complete waterways sampling stations directory of all 107 stations, of which the 59 sampling locations in 2005 are a subset, are listed in Table AI-2, Appendix A1.

Water Assays and Water Quality Criteria

The District's laboratories performed 68 types of analyses on water samples taken in District waterways during 2005. A list of these assays and additional parameters computed from these assays appears in Table 2. Table 2 shows the water quality standard for each parameter as defined by the IPCB in the State of Illinois Rules and Regulations, Title 35 (2). The related IPCB rule number with the effective date of each rule are also included.

It should be noted that the General Use Water Quality Standards for ammonia nitrogen and un-ionized ammonia were revised effective November 8, 2002, and those for dissolved metals were adopted effective December 20, 2002. New revised standards are used to assess compliance rates starting from 2003.

Special Interpretation of Certain Water Quality Standards. In most cases, the standards are unambiguous; that is, a simple numerical limit or range is given which may not be exceeded or must be met. However, there are five water quality parameters (dissolved oxygen, fecal coliform, temperature, total cadmium, and soluble iron) which require interpretation in light of excessive cost of sample collection and sample assay techniques at the said frequency. These costs are related to the excessive manpower requirements, and cost of performing continuous DO measurements. The interpretations of IPCB standards are given in Table 3. In the case of dissolved oxygen, there are two standards, one based on 16 hours/day and the other based on all times. Since the District samples once per month, the District cannot define a 16-hour/day level. The District, therefore, interprets the IPCB standard for dissolved oxygen as the lower of the two numerical limits in each of the two instances shown.

The standard for fecal coliform is complicated by the required minimum of five samples collected over a 30-day period, and the use of a geometric mean. District protocols stipulate sampling once per month and, therefore, a geometric mean is not possible. Because of this, the District interprets the IPCB standard limitation as 400 cfu/100 mL in General Use Waters.

The standard for temperature also requires compliance with two temperatures for Secondary Contact Waters, depending on the number of observations. In this case, because temperatures are recorded by the District only once per month, the District interprets the IPCB standard as the maximum limit, or 37.8 °C at any time.

The IPCB water quality standards for chromium are specified separately for the trivalent and hexavalent oxidation states. Prior to 2003, the District did not differentiate between oxidation states when assaying for chromium because of the highly reactive nature of the total hexavalent

TABLE 2: WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2005¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Five-day Biochemical Oxygen Demand	NAS*		NAS*	
Five-day Carbonaceous Biochemical Oxygen Demand	NAS*		NAS*	
Dissolved Oxygen	5 mg/L ⁵	302.206	4 mg/L 3 mg/L ⁶	302.405 302.405
Temperature	32 °C ⁷ (Apr-Nov)	302.211	≤34.0 °C 95% of the time	302.408
Temperature	16 °C ⁷ (Dec-Mar)	302.211	≤37.8 °C 100% of the time	302.408
pH	6.5-9.0	302.204	6.0-9.0	302.404
Alkalinity (Total)	NAS*		NAS*	
Chloride	500 mg/L	302.208	NAS*	
Turbidity	NAS*		NAS*	
Total Kjeldahl Nitrogen	NAS*		NAS*	
Ammonium Nitrogen	mg/L ⁸	302.212	NAS*	
Un-ionized Ammonia	NAS*		0.1 mg/L	302.407
Organic Nitrogen	NAS*		NAS*	
Nitrite Plus Nitrate Nitrogen	NAS*		NAS*	
Total Solids	NAS*		NAS*	
Total Suspended Solids	NAS*		NAS*	
Volatile Suspended Solids	NAS*		NAS*	
Total Dissolved Solids	1000 mg/L	302.208	1500 mg/L	302.407
Phenols	100 µg/L	302.208	300 µg/L	302.407

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2005¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Sulfate	500 mg/L	302.208	NAS*	
Fats, Oils, and Greases	NAS*		15 mg/L	302.407
Total Phosphorus	NAS*		NAS*	
Total Cyanide	NAS*		0.1 mg/L	302.409
WAD Cyanide	0.022 mg/L	302.208	NAS*	
Fluoride	1.4 mg/L	302.208	15 mg/L	302.407
Total Organic Carbon	NAS*		NAS*	
Fecal Coliform	400 cfu/100mL	302.209	NAS*	
Escherichia Coli	NAS*		NAS*	
Total Calcium	NAS*		NAS*	
Total Magnesium	NAS*		NAS*	
Hardness	NAS*		NAS*	
Gross Alpha Radioactivity	NAS*		NAS*	
Gross Beta Radioactivity	100 pCi/L	302.208	NAS*	
Chlorophyll <i>a</i>	NAS*		NAS*	
Benzene**	310 µg/L	302.208	NAS*	
Benzene	4200 µg/L	302.208	NAS*	
Ethylbenzene	150 µg/L	302.208	NAS*	
Toluene	2000 µg/L	302.208	NAS*	
Xylene	920 µg/L	302.208	NAS*	
Total Silver	0.005 mg/L	302.208	1.1 mg/L	302.407
Total Arsenic	NAS*		1 mg/L	302.407
Total Barium	5 mg/L	302.208	5 mg/L	302.407
Total Boron	1 mg/L	302.208	NAS*	
Total Cadmium	NAS*		0.15 mg/L	302.407

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2005¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Total Copper	NAS*		1 mg/L	302.407
Total Chromium	NAS*		NAS*	
Total Hexavalent Chromium	16 µg/L	302.208	300 µg/L	302.407
Total Iron	NAS*		2 mg/L	302.407
Total Lead	NAS*		0.1 mg/L	302.407
Total Nickel	NAS*		1 mg/L	302.407
Total Manganese	1 mg/L	302.208	1 mg/L	302.407
Total Mercury**	0.012 µg/L	302.208	NAS*	
Total Mercury	NAS*		0.5 µg/L	302.407
Total Zinc	NAS*		1 mg/L	302.407
Total Selenium	1 mg/L	302.208	1 mg/L	302.407
Soluble Calcium	NAS*		NAS*	
Soluble Magnesium	NAS*		NAS*	
Soluble Silver	NAS*		NAS*	
Soluble Arsenic	0.36 mg/L	302.208	NAS*	
Soluble Barium	NAS*		NAS*	
Soluble Boron	NAS*		NAS*	
Soluble Cadmium	mg/L ⁹	302.208	NAS*	
Soluble Copper	mg/L ¹⁰	302.208	NAS*	
Soluble Chromium	mg/L ¹¹	302.208	NAS*	
Soluble Iron	1 mg/L	302.208	0.5 mg/L	302.407
Soluble Lead	mg/L ¹²	302.208	NAS*	
Soluble Nickel	mg/L ¹³	302.208	NAS*	
Soluble Manganese	NAS*		NAS*	
Soluble Mercury	2.21 µg/L	302.208	NAS*	
Soluble Zinc	mg/L ¹⁴	302.208	NAS*	

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2005¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Soluble Selenium	NAS*		NAS*	

¹Water Quality Standards from ‘State of Illinois Rules and Regulations’, Title 35: Environmental Protection, Subtitle C: Water Pollution.

²General Use Waters Designations, defined in Section 302.201 from 1 above, See Figure 1, for delineation.

³Secondary Contact and Indigenous Aquatic Life Waters Use Designation, defined in Section 303.441 from 1 above. See Figure 1, for delineation.

⁴Section Number from 1 above.

⁵Water Quality Standard as interpreted by the District. Due to such factors as type of assay, infrequent sampling, etc. strict adherence to IPCB requirements was not possible (see text).

⁶Calumet-Sag Channel only.

⁷The upper value can not be exceeded during more than 1% of the hours in the preceding 12-month period. The lower value can not be exceeded any time.

⁸ $\text{Min}[0.411/(1 + 10^{7.204-\text{pH}}) + 58.4/(1 + 10^{\text{pH}-7.204}), 15]$

⁹ $\text{Min}[(1.138672 - 0.041838 \ln(\text{Hard})) * e^{-2.918+1.128 \ln(\text{Hard})} * 0.001, 0.05]$

¹⁰ $e^{-1.464+0.9422 \ln(\text{Hard})} * 0.000960$

¹¹ $e^{3.688+0.819 \ln(\text{Hard})} * 0.000316$

¹² $[1.46203 - 0.145712 \ln(\text{Hard})] * e^{-1.301+1.273 \ln(\text{Hard})} * 0.001$

¹³ $e^{0.5173+0.846 \ln(\text{Hard})} * 0.000998$

¹⁴ $e^{0.9035+0.8473 \ln(\text{Hard})} * 0.000978$

*NAS = No Applicable Standard.

** = Human Health Standard.

TABLE 3: ILLINOIS POLLUTION CONTROL BOARD (IPCB)
WATER QUALITY STANDARDS AND CORRESPONDING
DISTRICT'S INTERPRETATIONS FOR 2005

Parameter	Water Use Designation	IPCB Standard	District Interpreted Standard
1. Dissolved Oxygen	General Use Waters	≥ 6.0 mg/L at least 16 hours/day	≥ 5.0 mg/L anytime
	Secondary Contact Waters	≥ 5.0 mg/L at least 16 hours/day	≥ 4.0 mg/L anytime
	(Calumet Sag Channel effective 5/19/88)	≥ 4.0 mg/L anytime	≥ 3.0 mg/L anytime
2. Temperature	Secondary Contact Waters	$\leq 34.0^{\circ}\text{C}$, 95% of the time	$\leq 37.8^{\circ}\text{C}$
		$\leq 37.8^{\circ}\text{C}$, 100% of the time	anytime
3. Fecal Coliform	General Use Waters	Based on a minimum of five samples in a 30-day period geometric mean ≤ 200 cfu/100 mL; ≤ 400 cfu/100 mL in 90% of the samples	≤ 400 cfu/100 mL anytime

chromium, but reported the results as total chromium (trivalent plus hexavalent), and applied the IPCB numerical limit for total trivalent chromium to the measured total chromium concentrations. However, since January 2003, the District assays for total chromium, total hexavalent chromium and soluble chromium. The standard currently contains a limit for total hexavalent chromium and for soluble trivalent chromium. The District applies the analysis of soluble chromium to the soluble trivalent chromium standard.

Starting from January 2003, the IPCB also dropped the water quality standards of total arsenic, total cadmium, total copper, total iron, total lead, total nickel, total mercury, and total zinc, and introduced standards for the dissolved fraction of the above metals in the General Use waters. The IPCB also introduced standards for total arsenic, total cadmium, total copper, total iron, total lead, total nickel, total mercury, and total zinc in the Secondary Contact Waters. In addition, it should be noted that in 1996, the General Use standard for cyanide was changed from total cyanide to weak acid dissociable cyanide. Thus, beginning with the 1996 report, compliance determinations are made in terms of weak acid dissociable cyanide.

COMPLIANCE WITH WATER QUALITY STANDARDS IN GENERAL USE WATERS

Sampling Locations and Frequencies

By definition, all sampling locations not in waters classified as Secondary Contact Waters are within General Use Waters. The delineation of these two water use classifications is shown in Figure 1. A tabulation of locations sampled in General Use Waters during 2005 is shown in Table 4. Of the five river systems sampled during 2005, three (Des Plaines, Du Page, and Fox) lie entirely within the General Use classification. The General Use Waters in the Chicago and Calumet River Systems mostly consists of the streams that are tributary to the principal man-made channels and modified river sections.

In the subsequent evaluation, when the Fox River System is referred to in this report, Station 90 is considered to be General Use. Similarly, in the Du Page River System, data from three sampling locations are considered to be General Use: 8,342 feet upstream (Station 110), 1,000 feet downstream (Station 89), and 7,900 feet downstream of the Hanover Park WRP treated effluent discharge into the West Branch of the Du Page River (Station 64). The frequency of sampling during 2005 was once per month at most locations. Table 4 shows the frequency of sampling at all General Use locations in 2005.

River System Compliance Data

In the General Use Waters sampled during 2005, 31 parameters were covered by the State of Illinois Water Quality Standards. Two parameters, benzene and total mercury, had IPCB Human Health Standards. Summary results, including means, number of observations, and number of violations of General Use Standards and Human Health Standards, are shown in Appendix AII at each sampling station of each of the three river systems.

The 21 parameters which were in 100 percent compliance in all river systems were ammonium nitrogen, phenols, weak acid dissociable cyanide, gross beta radioactivity, benzene, ethylbenzene, toluene, xylene, total silver, total barium, total boron, total selenium, soluble arsenic, soluble cadmium, soluble copper, soluble chromium, soluble iron, soluble lead, soluble nickel, soluble mercury, and soluble zinc. One parameter, Benzene, was in total compliance due to the Human Health Standard in all river systems.

The 10 water quality parameters and 1 Human Health parameter which were in less than complete compliance in 2005 are shown in Table 5. The percent compliance of these parameters in each river system is also presented.

Chicago River System. There are 13 locations (30, 106, 103, 31, 104, 32, 105, 34, 96, 35, 102, 74, and 100) in the General Use section of the river system. However, location 30 was not sampled in 2005.

Twenty-five parameters were in 100 percent compliance at each of the locations. In addition

TABLE 4: LOCATIONS SAMPLED AND ANNUAL SAMPLING
 FREQUENCIES OF GENERAL USE WATERS IN 2005

Map No. ¹	Station Name	Annual No. of Samples
<u>Chicago River System</u>		
106	Dundee Road, West Fork North Branch Chicago River	10
103	Golf Road, West Fork North Branch Chicago River	10
31	Lake-Cook Road, Middle Fork North Branch	10
104	Glenview Road, North Branch Chicago River	12
32	Lake-Cook Road, Skokie River	11
105	Frontage Road, Skokie River	12
34	Dempster Street, North Branch Chicago River	11
96	Albany Avenue, North Branch Chicago River	11
35	Central Street, North Shore Channel	8
102	Oakton Street, North Shore Channel	12
74	Lake Shore Drive, Chicago River	10
100	Wells Street, Chicago River	12
		<u>129</u>
<u>Calumet River System</u>		
49	Ewing Avenue, Calumet River	11
50	Burnham Avenue, Wolf Lake	12
55	130th Street, Calumet River	11
52	Wentworth Avenue, Little Calumet River	11
54	Joe Orr Road, Thorn Creek	8
97	170th Street, Thorn Creek	11
57	Ashland Avenue, Little Calumet River	11
		<u>75</u>
<u>Des Plaines River System</u>		
79	Higgins Road, Salt Creek	9
80	Arlington Heights Road, Salt Creek	12
18	Devon Avenue, Salt Creek	12
24	Wolf Road, Salt Creek	12
109	Brookfield Avenue, Salt Creek	12
77	Elmhurst Road, Higgins Creek	4
78	Wille Road, Higgins Creek	12

TABLE 4 (Continued): LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF GENERAL USE WATERS IN 2005

Map No. ¹	Station Name	Annual No. of Samples
<u>Des Plaines River System (Continued)</u>		
12	Lake-Cook Road, Buffalo Creek	7
13	Lake-Cook Road, Des Plaines River	12
17	Oakton Steet, Des Plaines River	12
19	Belmont Avenue, Des Plaines River	12
20	Roosevelt Road, Des Plaines River	12
22	Ogden Avenue, Des Plaines River	12
23	Willow Springs Road, Des Plaines River	12
29	Stephen Street, Des Plaines River	12
91	Material Service Road, Des Plaines River	12
		<u>176</u>
<u>Du Page River System</u>		
89	Walnut Lane, West Branch DuPage River	12
64	Lake Street, West Branch DuPage River	12
110	Springinsguth Road, West Branch DuPage River	11
		<u>35</u>
<u>Fox River System</u>		
90	Route 19, Poplar Creek	11
		<u>11</u>

¹Refer to Figure 1.

TABLE 5: WATER QUALITY PARAMETERS NOT IN TOTAL COMPLIANCE
IN GENERAL USE WATERS OF ALL RIVER SYSTEMS IN 2005

Parameter	Estimated Percent Compliance*		
	Chicago	Calumet	Des Plaines
Dissolved Oxygen	87.3	81.6	92.7
Temperature	98.5	100.0	100.0
pH	89.8	94.6	97.3
Chloride	89.3	98.6	90.4
Total Dissolved Solids	80.5	76.5	80.3
Sulfate	100.0	86.8	100.0
Fluoride	100.0	86.3	100.0
Fecal Coliform	45.3	45.8	38.6
Total Hexavalent Chromium	100.0	100.0	98.6
Total Manganese	100.0	100.0	99.6
Total Mercury**	70.6	73.6	85.0

*Based on the total number of samples in compliance divided by the total number of samples collected, multiplied by 100.

**Due to Human Health Standard.

to the 21 parameters listed above, sulfate, fluoride, total hexavalent chromium, and total manganese were also in total compliance. Violations of the pertinent General Use Standards for the remaining six parameters (dissolved oxygen, temperature, pH, chloride, total dissolved solids, fecal coliform) and one Human Health Standard (total mercury) occurred in at least one of the locations sampled. Detailed violation records for the noncompliant parameters are shown in [Table 6](#).

A comparison of 2005 data with 2004 data indicated that there was no significant difference between 2005 and 2004 compliance rates except for pH and total dissolved solids. In the Chicago River System, the compliance rate for pH significantly decreased from total compliance in 2004 to 89.8 percent in 2005, and the compliance rate for total dissolved solids significantly decreased from 91.0 percent in 2004 to 80.5 percent in 2005.

Calumet River System. There are 7 sampling locations (49, 50, 55, 52, 54, 97, and 57) in the General Use section of the river system. Twenty-four parameters were in 100 percent compliance at each of the locations. In addition to the 21 parameters listed above, temperature, total hexavalent chromium, and total manganese were also in total compliance. Detailed violation records for the noncompliant parameters are shown in [Table 7](#).

A comparison of 2005 data with 2004 data indicated that there was no significant difference between 2005 and 2004 compliance rates for all parameters in this river system.

Des Plaines River System. All 20 sampling locations (90, 89, 64, 79, 80, 18, 24, 109, 77, 78, 12, 13, 17, 19, 20, 22, 23, 29, 91, and 110) of the river system are in General Use Waters. Three sampling locations (110, 89, and 64) on the Du Page River and 1 sampling location (90) on Poplar Creek are included in this sampling program.

Twenty-four parameters were in 100 percent compliance at each of the locations. In addition to the 21 parameters listed above, temperature, sulfate, and fluoride were also in total compliance. Detailed violation records for the noncompliant parameters are shown in [Table 8](#).

A comparison of 2005 data with 2004 data indicated that there was no significant difference between 2005 and 2004 compliance rates except for pH, total dissolved solids, fecal coliform, and total mercury. In the Des Plaines River System, the compliance rate for pH significantly decreased from total compliance in 2004 to 97.3 percent in 2005, the compliance rate for total dissolved solids significantly decreased from 87.3 percent in 2004 to 80.3 percent in 2005, the compliance rate for fecal coliform significantly decreased from 50.1 percent in 2004 to 38.6 percent in 2005, and the compliance rate for total mercury significantly increased from 75.7 percent in 2004 to 85.0 percent in 2005. Only in the Des Plaines River System, the compliance rate for total mercury significantly increased from 75.7 percent in 2004 to 85.0 percent in 2005.

The compliance rates for 31 water quality parameters with the General Use Standards, and compliance rates for 2 parameters (benzene and total mercury) with the Human Health Standards for the Chicago, Calumet, and Des Plaines River Systems are presented in [Figures 2, 3, and 4](#), respectively.

TABLE 6: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS
OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE CHICAGO RIVER SYSTEM IN 2005

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
DO	103	2	May, and Jun
	31	6	Jun, Jul, Aug, Sep, Oct, and Nov
	104	1	Jun
	32	2	Jun, and Sep
	34	3	May, Jun, and Nov
	96	1	Jun
	35	2	Jun, and Nov
			<u>17</u>	Total violation of Dissolved Oxygen (DO)
Temp	104	1	Jun
	32	1	Jun
		<u>2</u>	Total violation of Temperature (Temp)
pH	104	2	Oct, and Dec
	32	2	Sep, and Dec
	105	2	Sep, and Dec
	96	2	Oct, and Nov
	102	1	Nov
	100	1	Aug
		<u>10</u>	Total violation of pH (pH)
Cl	106	2	Feb, and Mar
	103	5	Jan, Feb, Mar, Apr, and May
	104	1	Mar
	32	2	Mar, and Jul
	34	2	Jan, and Mar
	96	1	Mar
			<u>13</u>	Total violation of Chloride (Cl)
TDS	106	2	Feb, and Mar
	103	6	Jan, Feb, Mar, Apr, May, and Jul
	31	3	Mar, Apr, and Jul
	104	1	Mar
	32	5	Mar, Apr, May, Jun, and Jul
	34	3	Jan, Mar, and Apr

TABLE 6 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF THE CHICAGO RIVER SYSTEM IN 2005

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
	96	4	Jan, Feb, Mar, and Apr
		24	Total violation of Total Dissolved Solids (TDS)
FC	106	3	Mar, Aug, and Nov
	103	8	Jan, Feb, Mar, Apr, Jul, Sep, Oct, and Nov
	31	5	Mar, Jul, Aug, Sep, and Nov
	104	9	Jan, Feb, May, Jun, Jul, Aug, Sep, Oct, and Dec
	32	7	Feb, Mar, Apr, May, Jun, Sep, and Dec
	105	2	Apr, and Sep
	34	9	Jan, Feb, Mar, May, Jun, Jul, Aug, Sep, and Nov
	96	9	Jan, Feb, May, Jun, Jul, Aug, Sep, Oct, and Nov
	35	1	May
	102	7	Jan, Feb, Mar, Apr, Jun, Nov, and Dec
	74	2	Mar, and Sep
	100	3	Feb, Oct, and Dec
		65	Total violation of Fecal Coliform (FC)
Hg*	103	5	Jan, Feb, May, Jun, and Jul
	31	2	Feb, and May
	104	6	Feb, May, Jun, Jul, Aug, and Oct
	32	3	Feb, May, and Sep
	105	5	Jan, Feb, May, Jul, and Aug
	34	4	Jan, Feb, May, and Jun
	96	4	Jan, Feb, May, and Sep
	35	1	May
	102	3	Jan, May, and Jun
	100	3	Mar, Apr, and May
		36	Total violation of Total Mercury (Hg*)

¹Number of violations in each month is 1 unless otherwise indicated in the parenthesis.

*Due to Human Health Standard in General Use Water.

TABLE 7: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS
OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE CALUMET RIVER SYSTEM IN 2005

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
DO	50	1	Aug
	52	5	May, Jun, Jul, Aug, and Sep
	54	2	Jul, and Aug
	97	1	Jul
	57	5	May, Jun, Jul, Aug, and Sep
		14	Total violation of Dissolved Oxygen (DO)
pH	52	1	Dec
	97	1	Dec
	57	2	Sep, and Oct
		4	Total violation of pH (pH)
Cl	57	1	Dec
		1	Total violation of Chloride (Cl)
TDS	54	5	Jan, Feb, Mar, Aug, and Oct
	97	9	Jan, Feb, Mar, May, Jul, Sep, Oct, Nov, and Dec
	57	2	Jun, and Dec
		16	Total violation of Total Dissolved Solids (TDS)
SO ₄	54	4	Jan, Apr, Aug, and Oct
	97	4	May, Jul, Sep, and Oct
	57	1	Jun
		9	Total violation of Sulfate (SO₄)
F	52	7	Apr, May, Jun, Jul, Aug, Sep, and Dec
	57	3	Jun, Jul, and Sep
		10	Total violation of Fluoride (F)
FC	50	2	Jul, and Sep
	52	10	Feb, Mar, Apr, Jun, Jul, Aug, Sep, Oct, Nov, and Dec
	54	8	Jan, Feb, Mar, Apr, Jul, Aug, Oct, and Nov
	97	11	Jan, Feb, Mar, Apr, May, Jul, Aug, Sep, Oct, Nov, and Dec
	57	10	Feb, Mar, Apr, May, Jul, Aug, Sep, Oct, Nov, and Dec
		41	Total violation of Fecal Coliform (FC)

TABLE 7 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF THE CALUMET RIVER SYSTEM IN 2005

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
Hg*	50	1	Oct
	55	3	Jul, Nov, and Dec
	52	5	Feb, Sep, Oct, Nov, and Dec
	54	2	Jul, and Nov
	97	5	Jan, Feb, Oct, Nov, and Dec
	57	4	Mar, Sep, Oct, and Nov
		20	Total violation of Total Mercury (Hg*)

¹Number of violations in each month is 1 unless otherwise indicated in the paranthesis.

*Due to Human Health Standard in General Use Water.

TABLE 8: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS
OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE DES PLAINES RIVER SYSTEM IN 2005

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
DO	79	3	Jul, Aug, and Sep
	109	1	Jun
	17	2	Jul, and Aug
	19	3	Jul, Aug, and Sep
	20	2	Jul, and Aug
	23	1	Jul
	110	4	Jun, Jul, Aug, and Sep
			16	Total violation of Dissolved Oxygen (DO)
pH	78	1	Sep
	13	2	Sep, and Nov
	17	1	Sep
	19	1	Sep
	20	1	Sep
			6	Total violation of pH (pH)
Cl	90	1	Feb
	79	2	Mar, and Jun
	80	2	Feb, and Apr
	18	2	Feb, and Apr
	24	1	Apr
	109	1	Apr
	77	2	Feb, and Apr
	78	1	Feb
	12	1	Feb
	17	1	Feb
	20	1	Feb
	22	1	Feb
	23	1	Feb
	29	1	Feb
	91	1	Feb
	110	3	Jan, Mar, and Jun
		22	Total violation of Chloride (Cl)

TABLE 8 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF THE DES PLAINES RIVER SYSTEM IN 2005

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
TDS	90	3	Feb, Mar, and Apr
	64	1	Feb
	79	4	Mar, Apr, May, and Jun
	80	2	Feb, and Mar
	18	4	Jan, Feb, Mar, and Apr
	24	3	Feb, Mar, and Apr
	109	3	Feb, Mar, and Apr
	77	2	Feb, and Apr
	78	1	Feb
	12	5	Feb, Mar, Apr, Jun, and Jul
	13	1	Feb
	17	1	Feb
	19	1	Feb
	20	1	Feb
	22	1	Feb
	23	2	Feb, and Mar
	29	2	Feb, and Mar
	91	2	Feb, and Mar
	110	6	Jan, Feb, Mar, Apr, May, and Jun
		45	Total violation of Total Dissolved Solids (TDS)
FC	90	5	Jan, Jul, Sep, Oct, and Nov
	89	10	Jan, Feb, Mar, Apr, Jun, Jul, Aug, Oct, Nov, and Dec
	64	10	Jan, Feb, Mar, Apr, Jun, Jul, Aug, Oct, Nov, and Dec
	79	3	Jul, Oct, and Nov
	80	6	Jan, Feb, Mar, Jul, Nov, and Dec
	18	9	Jan, Feb, Mar, Jun, Jul, Aug, Oct, Nov, and Dec
	24	9	Jan, Feb, Mar, Apr, Jun, Aug, Oct, Nov, and Dec
	109	10	Jan, Feb, Mar, Apr, Jun, Jul, Aug, Oct, Nov, and Dec
	77	3	Feb, Oct, and Nov
	78	5	Jan, Feb, Jul, Oct, and Nov
	12	3	Jun, Jul, and Nov

TABLE 8 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF THE DES PLAINES RIVER SYSTEM IN 2005

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
	13	6	Jan, Feb, Jul, Oct, Nov, and Dec
	17	7	Jan, Feb, Jul, Aug, Oct, Nov, and Dec
	19	7	Jan, Feb, Mar, Jun, Aug, Oct, and Nov
	20	8	Jan, Feb, Mar, Jun, Jul, Aug, Oct, and Nov
	22	10	Jan, Feb, Mar, Apr, Jun, Jul, Aug, Oct, Nov, and Dec
	23	6	Jan, Feb, Jun, Jul, Oct, and Nov
	29	5	Jan, Feb, Jun, Oct, and Nov
	91	5	Jan, Feb, Jun, Nov, and Dec
	110	9	Jan, Feb, May, Jun, Jul, Aug, Sep, Oct, and Nov
		136	Total violation of Fecal Coliform (FC)
Cr ⁺⁶	19	1	Jan
	20	1	Jan
	23	1	Oct
		3	Total violation of Total Hexavalent Chromium (Cr⁺⁶)
Mn	110	1	Jun
		1	Total violation of Total Manganese (Mn)
Hg*	90	3	Jan, Apr, and Jul
	89	2	Jan, and Mar
	64	2	Mar, and Jul
	79	1	Jul
	80	2	Jan, and Apr
	18	2	Jan, and Mar
	24	2	Mar, and Aug
	78	2	Mar, and Dec
	12	1	Jan
	13	1	Jan
	17	2	Mar, and Dec
	20	2	Mar, and May
	22	2	Jan, and Jun
	23	2	Jan, and Mar
	29	2	Mar, and Jun

TABLE 8 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF GENERAL USE LIMITS IN THE GENERAL USE WATERS OF THE DES PLAINES RIVER SYSTEM IN 2005

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
	91	2	Jan, and Jun
	110	3	Jan, Mar, and May
		33	Total violation of Total Mercury (Hg*)

¹Number of violations in each month is 1 unless otherwise indicated in the paranthesis.

*Due to Human Health Standard in General Use Water.

FIGURE 2: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2004 AND 2005

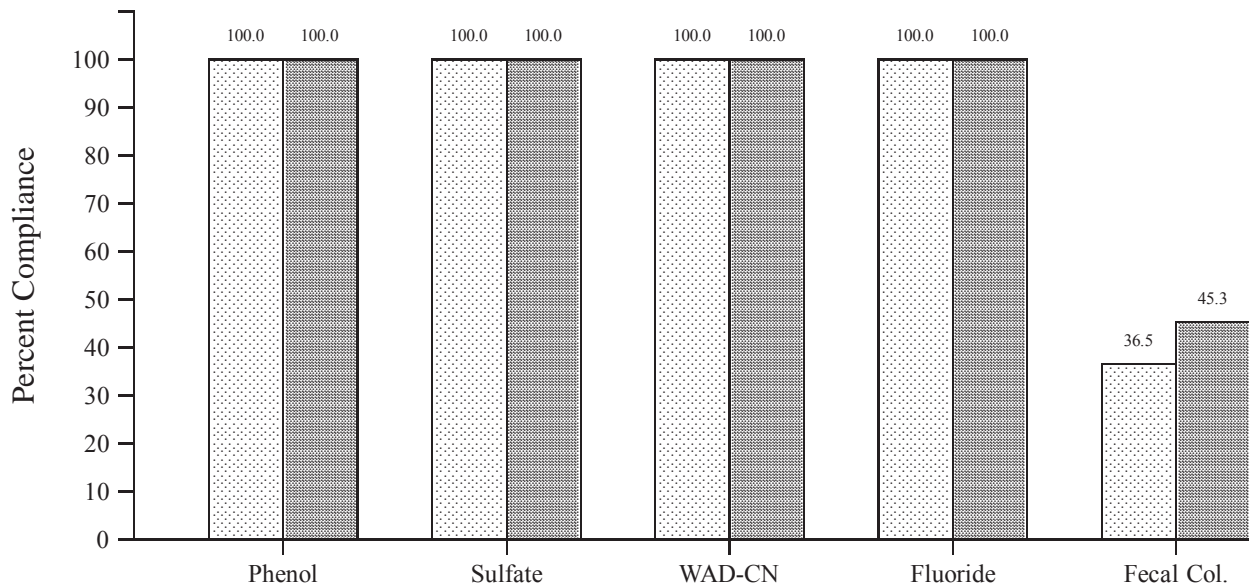
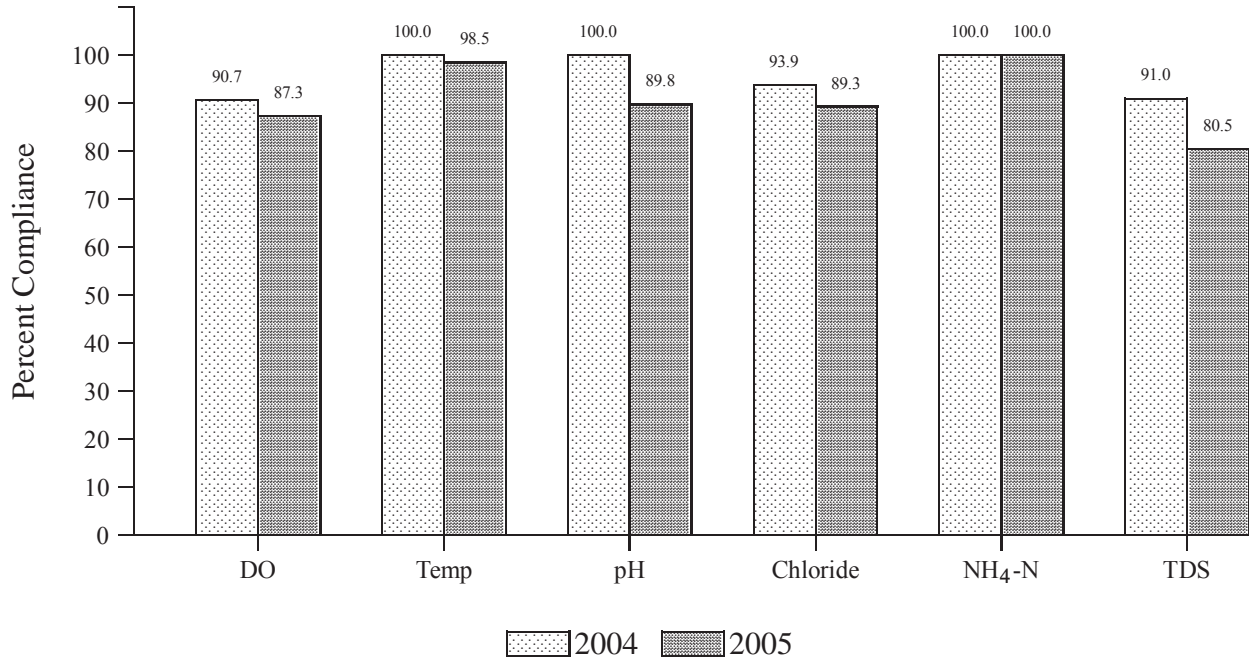


FIGURE 2 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2004 AND 2005

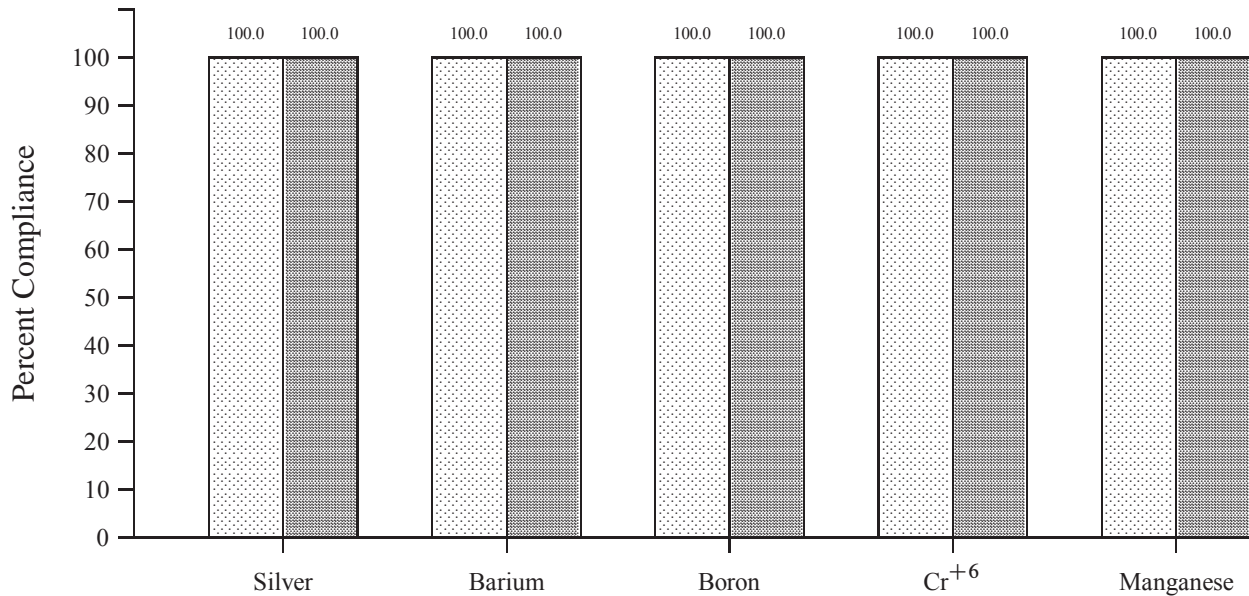
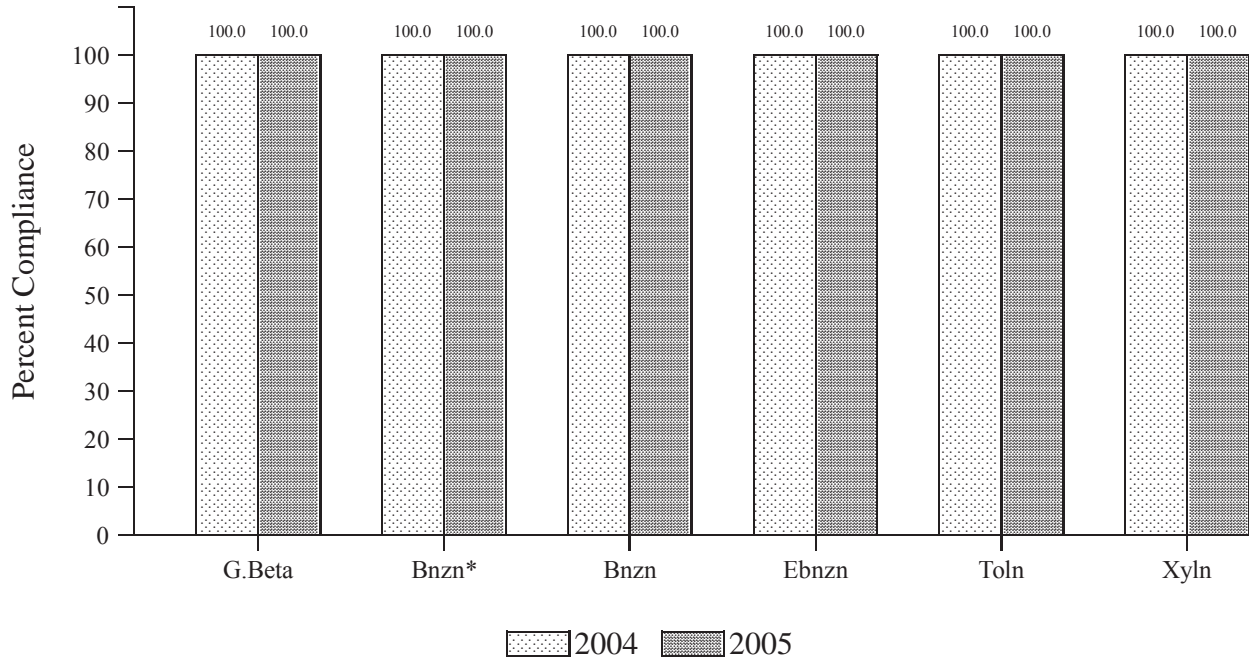
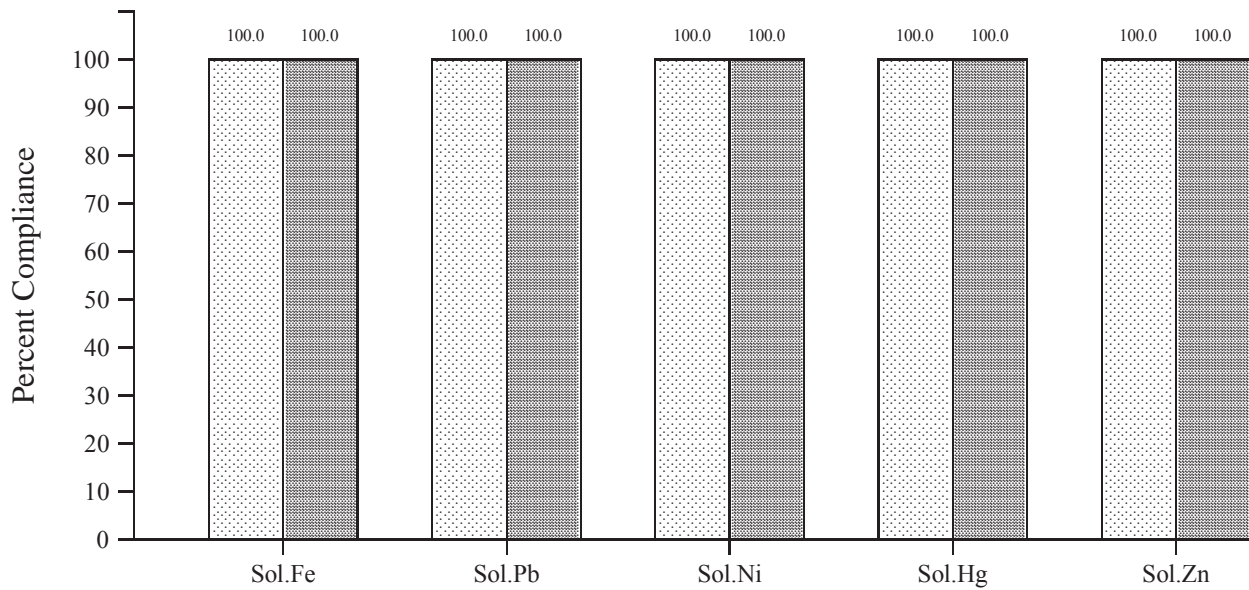
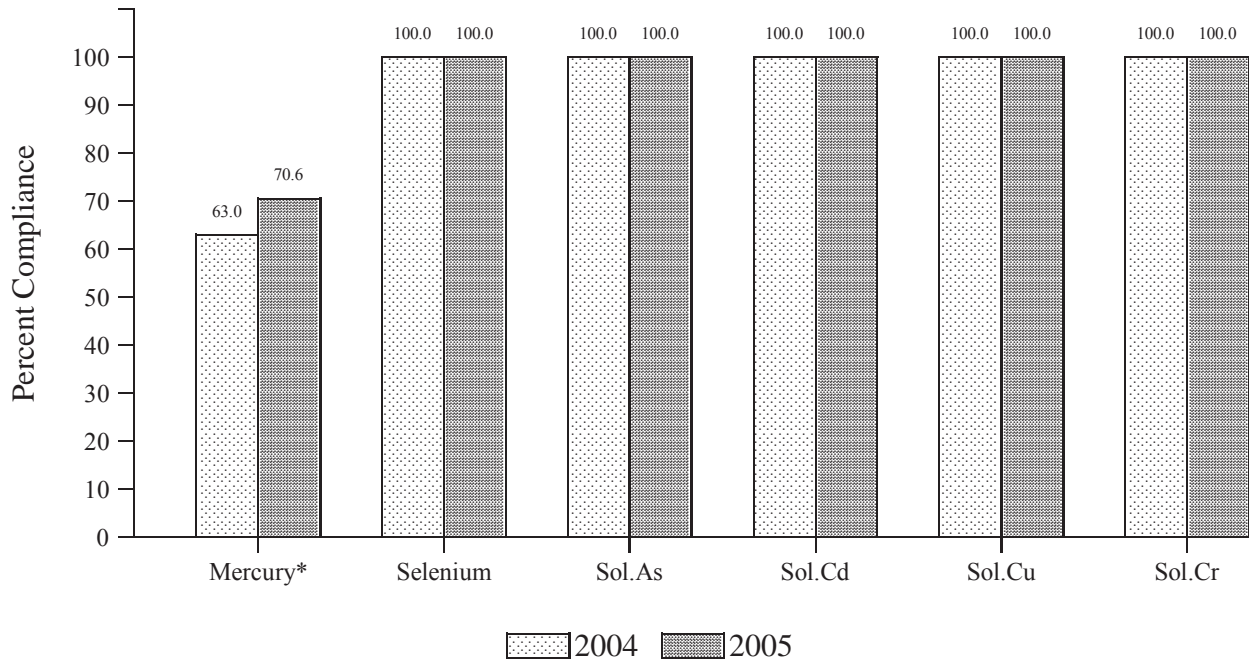


FIGURE 2 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2004 AND 2005



*Human Health Standard became effective in General Use Waters in December, 2002

FIGURE 3: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2004 AND 2005

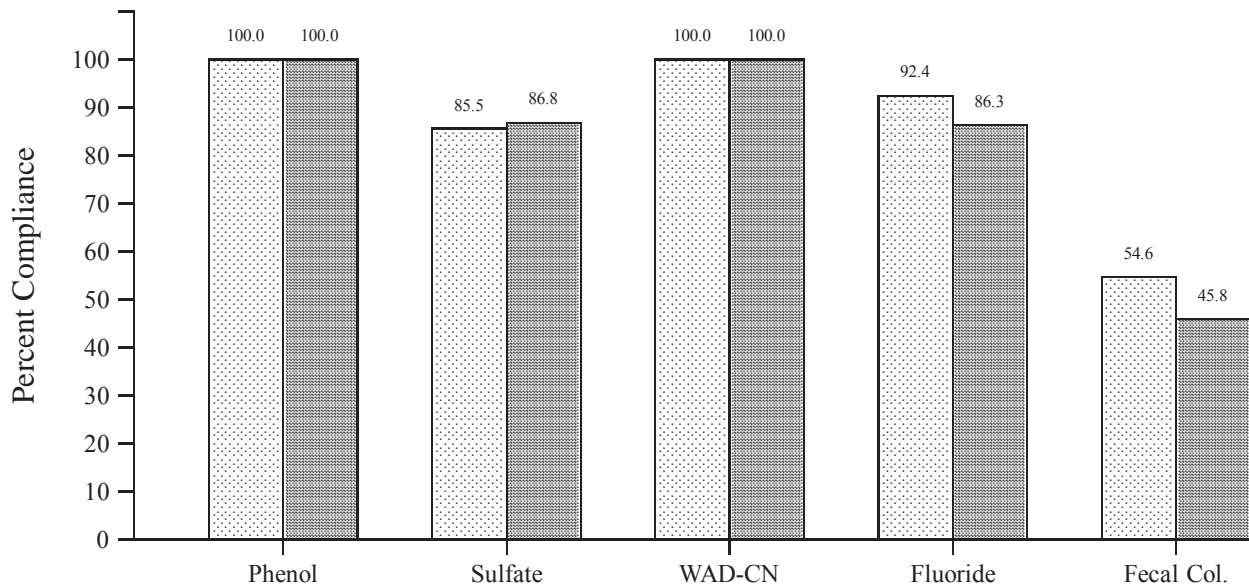
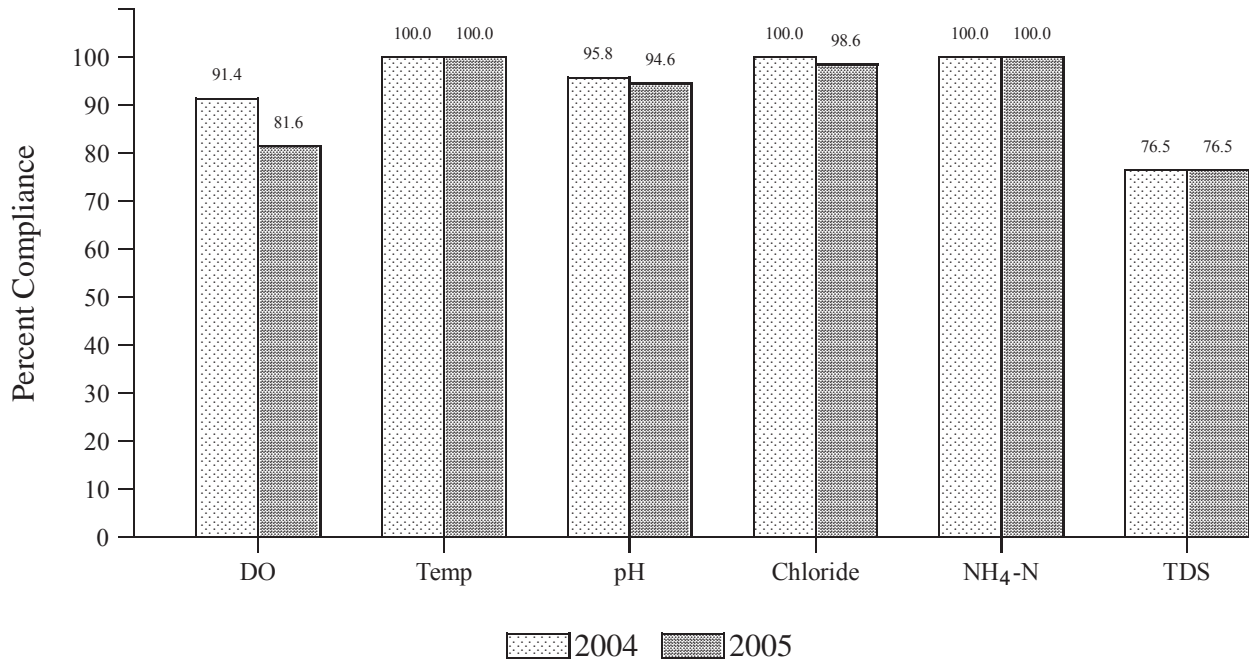


FIGURE 3 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2004 AND 2005

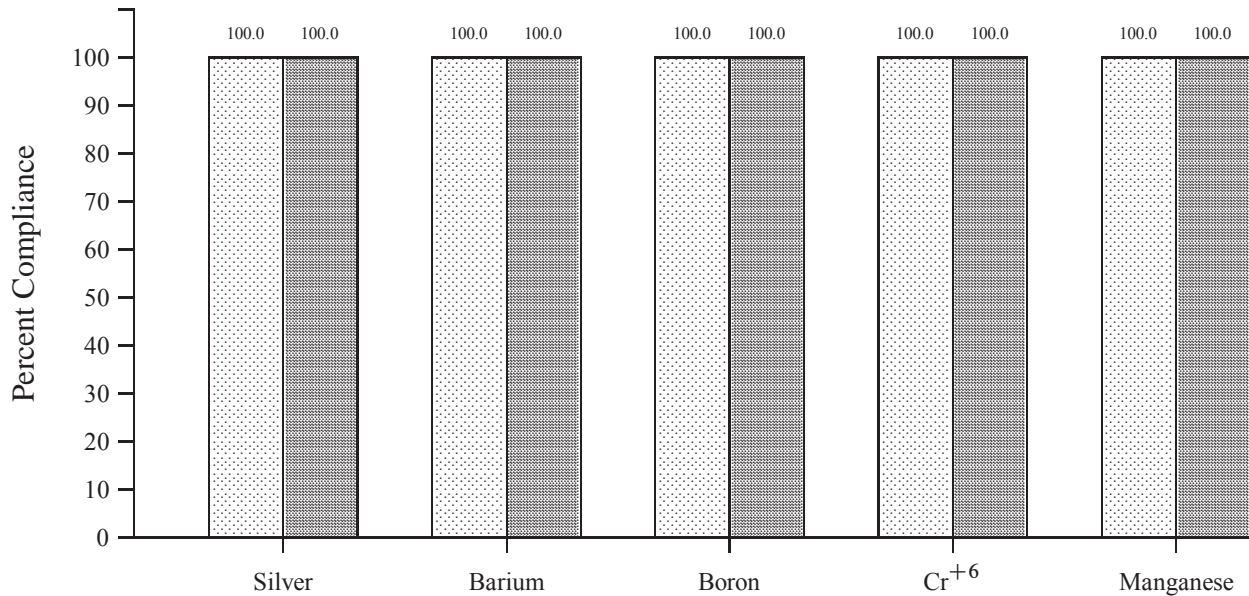
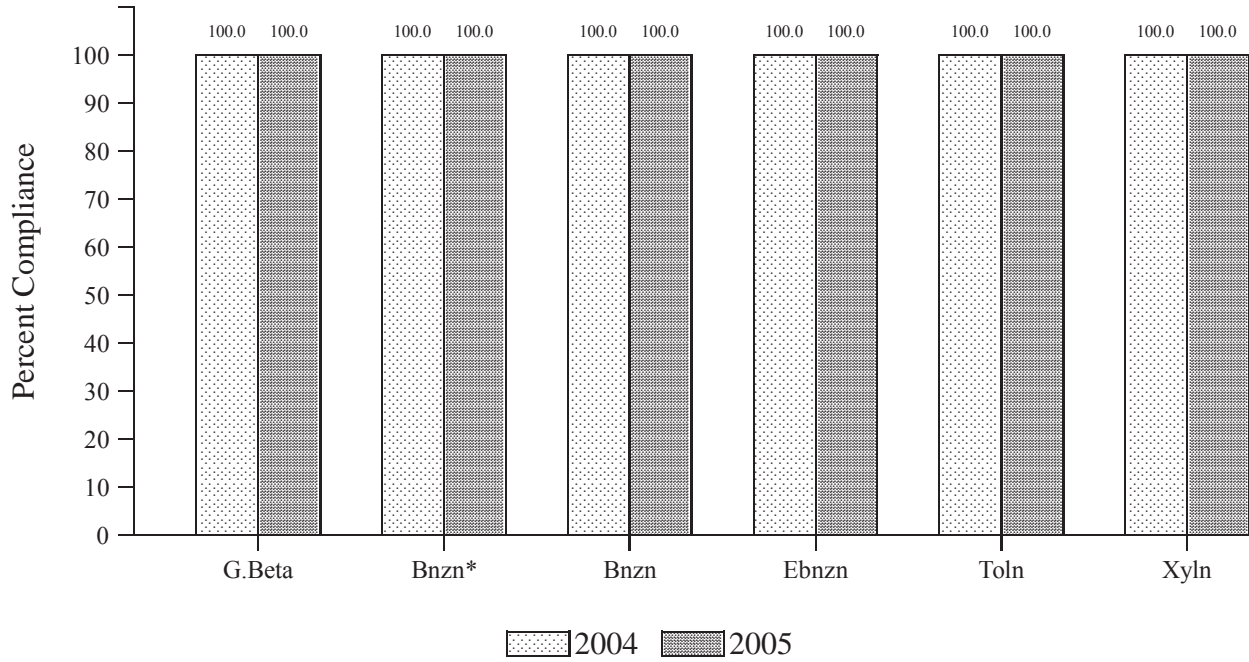
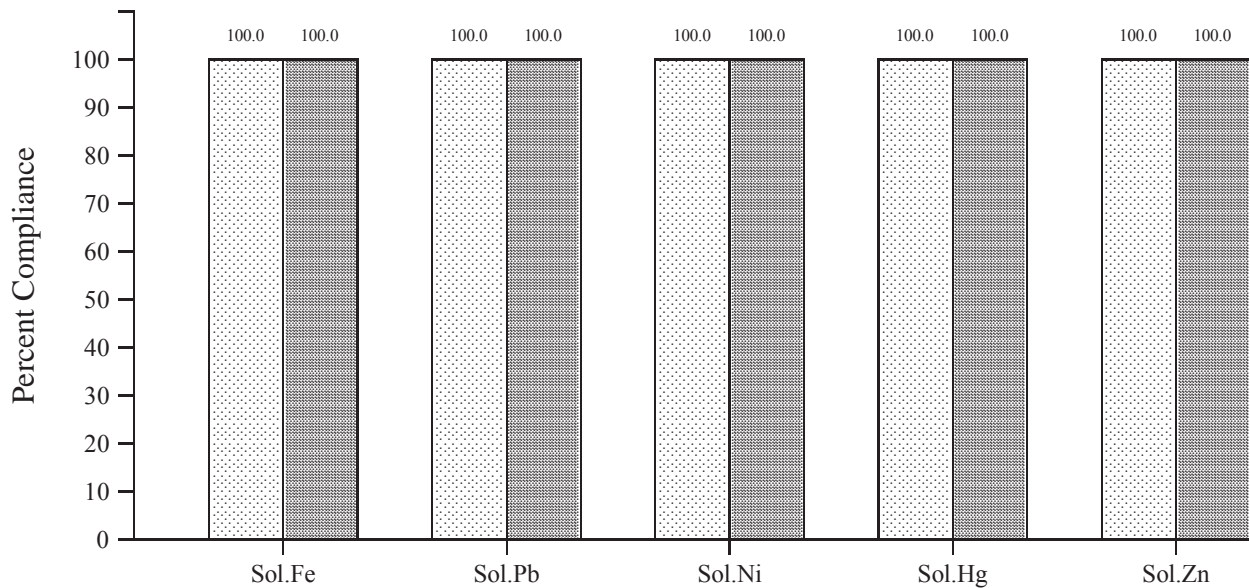
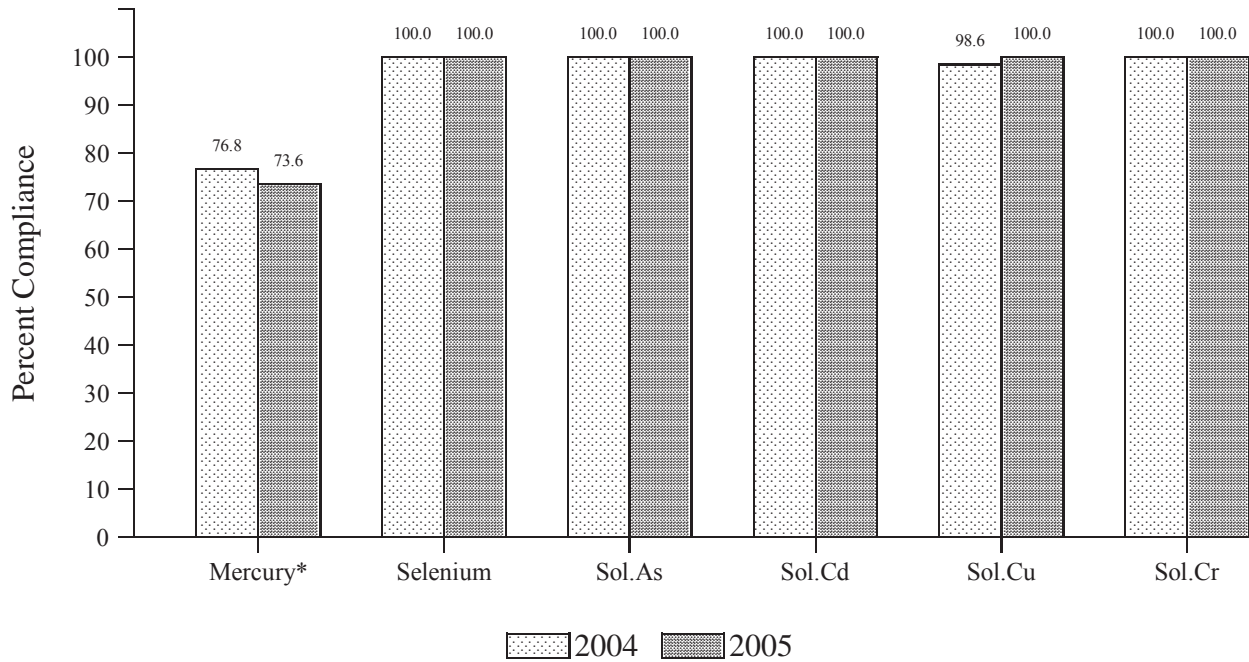


FIGURE 3 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2004 AND 2005



*Human Health Standard became effective in General Use Waters in December, 2002

FIGURE 4: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2004 AND 2005

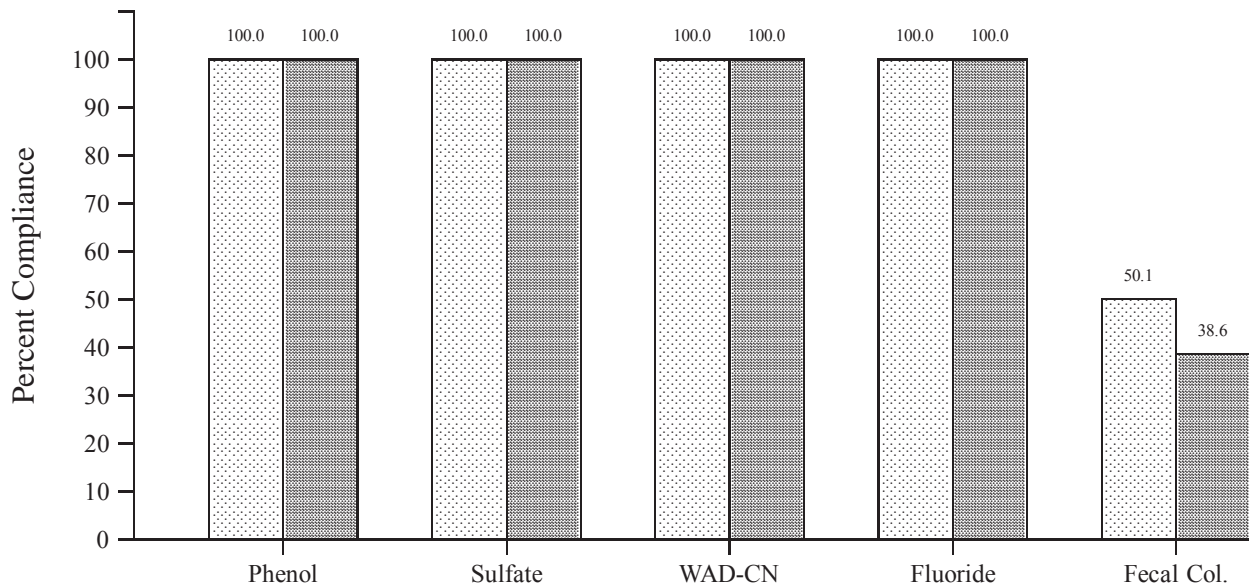
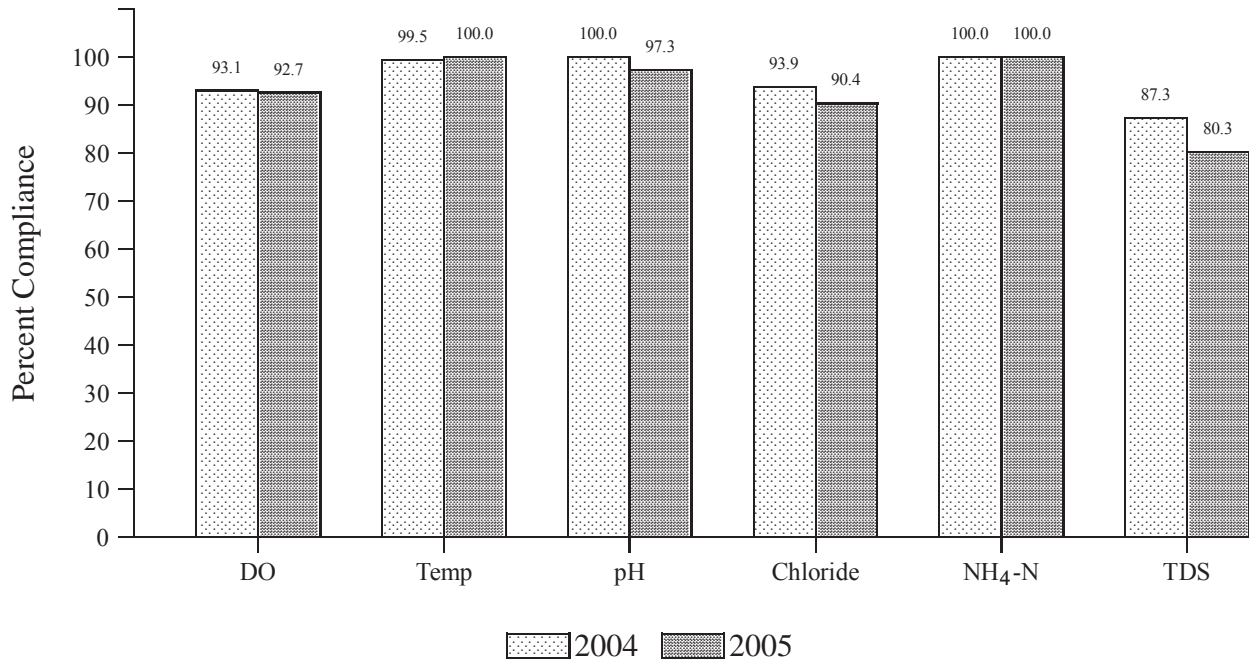


FIGURE 4 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2004 AND 2005

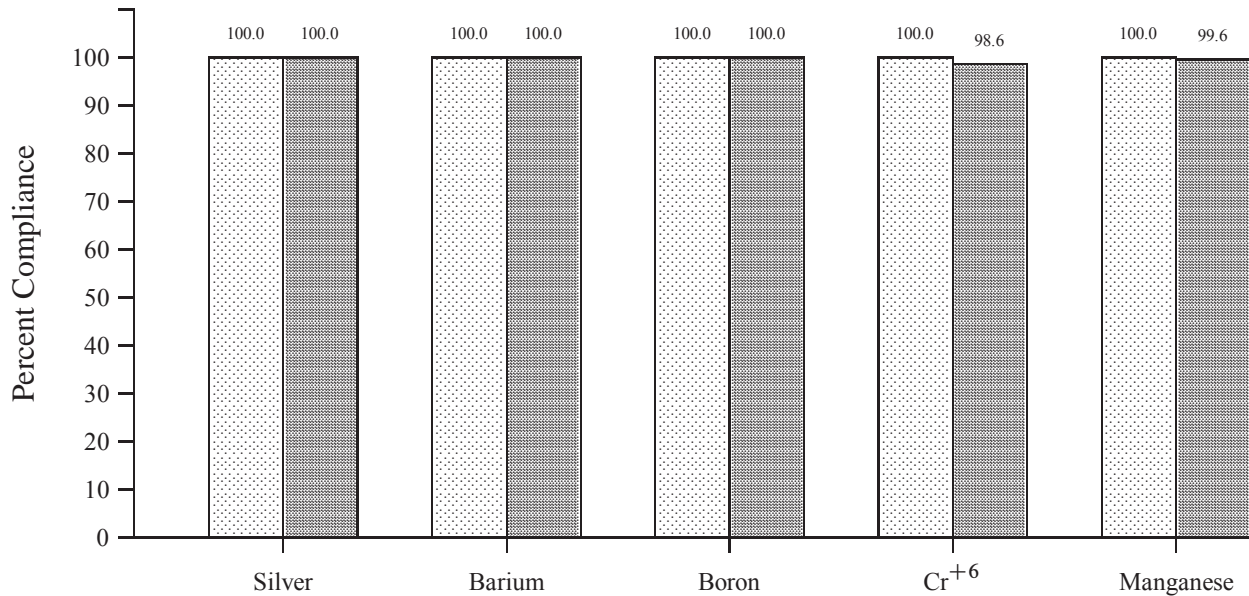
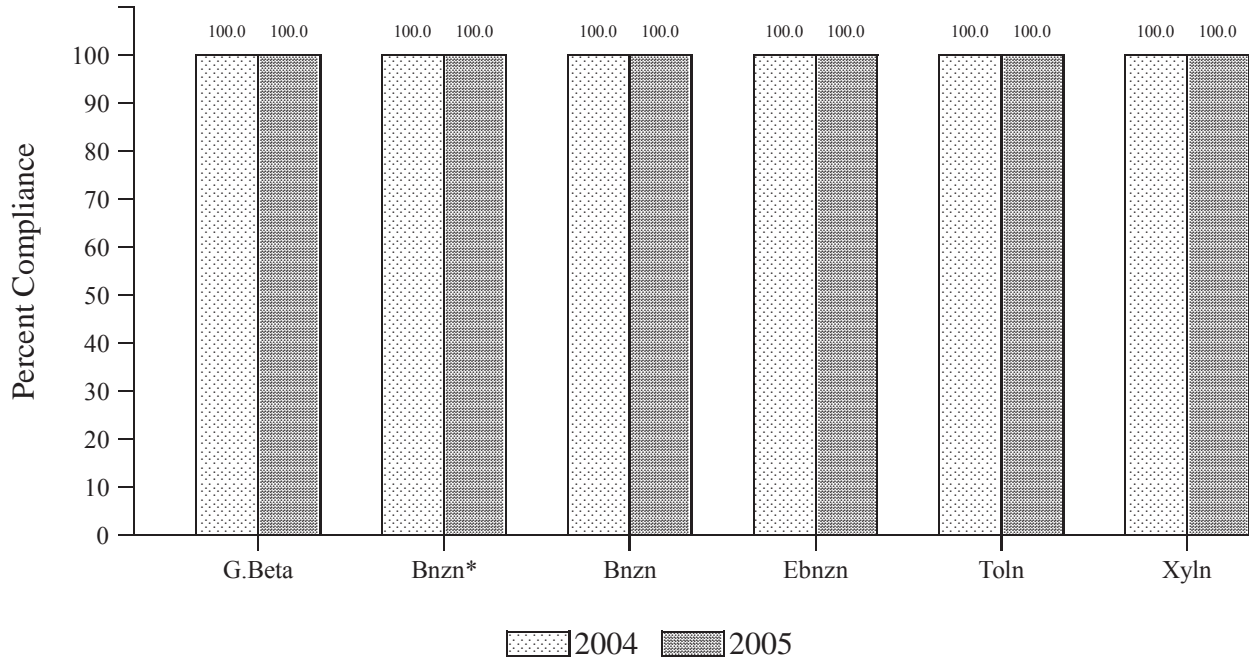
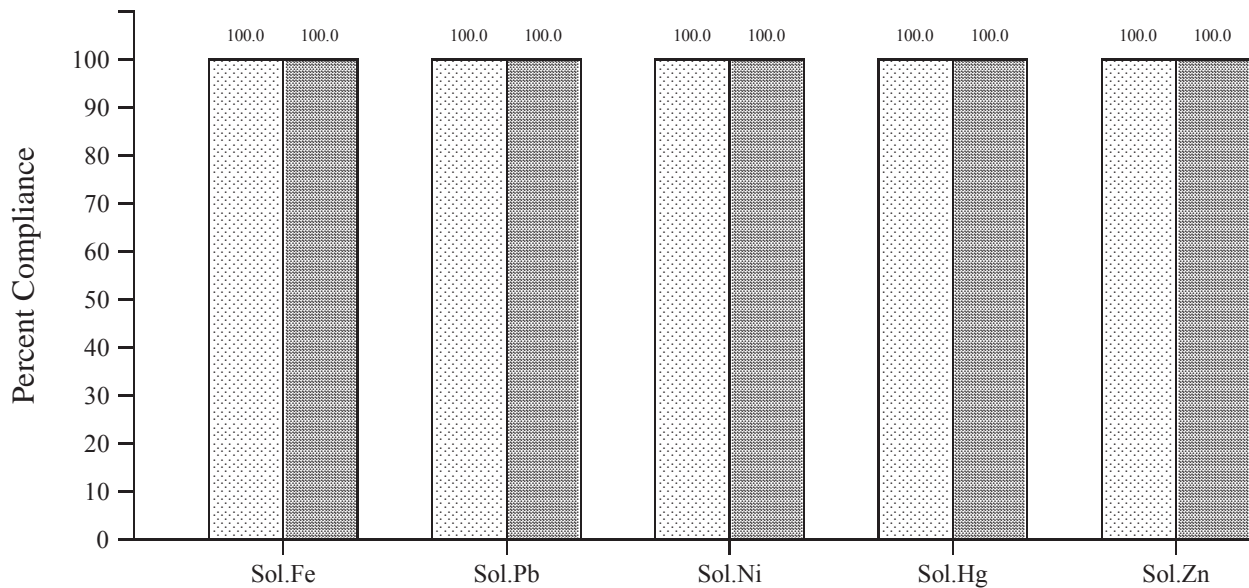
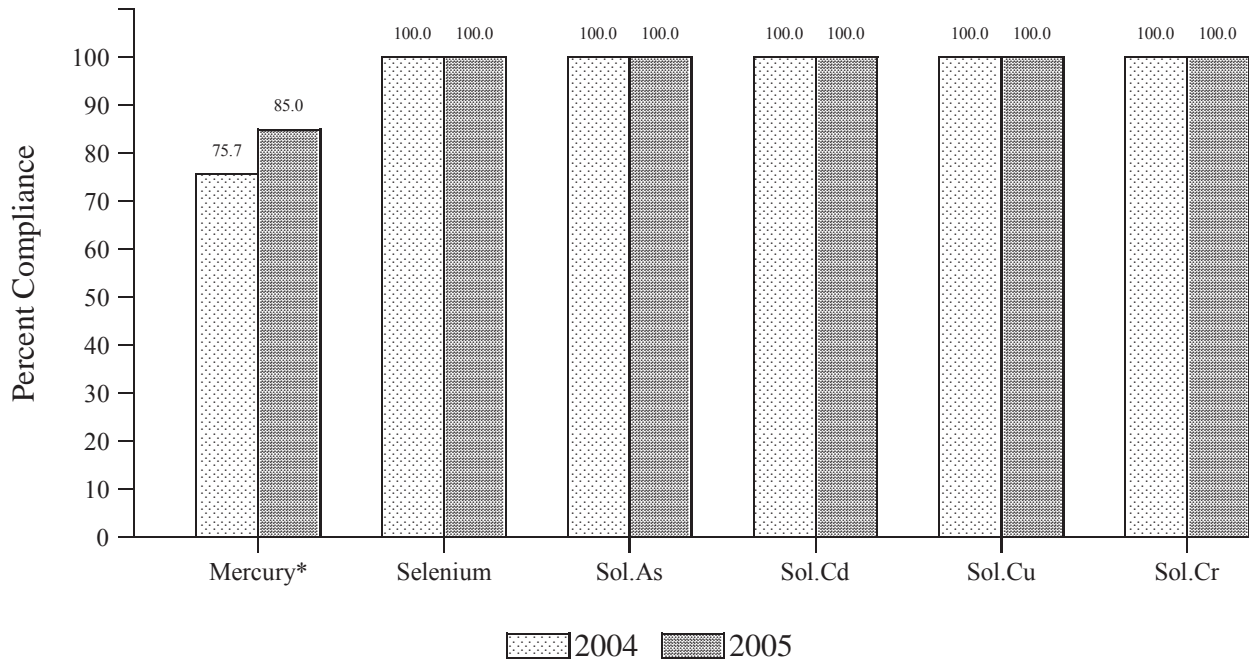


FIGURE 4 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2004 AND 2005



*Human Health Standard became effective in General Use Waters in December, 2002

COMPLIANCE WITH WATER QUALITY STANDARDS IN SECONDARY CONTACT WATERS

Sampling Locations and Frequencies

As shown in Figure 1, the waters designated as Secondary Contact Waters include the principal man-made canals in the Chicago and Calumet River Systems. The sampling locations used during 2005 and the annual frequencies of sampling are shown in Table 9. Also, Tables AII-2 through AII-46 show the number of violations and the annual sampling frequencies. In 2002, grab samples were collected at the Lockport Powerhouse (Chicago River System) once per week, but sampling at this location was discontinued after April 2002. Sampling at the Lockport Powerhouse was replaced by the collection of weekly grab samples at location 92 (Lockport Forebay) in 2002. Location 92 was sampled 52 times in 2005.

River System Compliance Data

In Secondary Contact Waters sampled during 2005, 23 parameters had IPCB Water Quality Standards. They were dissolved oxygen; temperature; pH; un-ionized ammonia; total dissolved solids; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total iron; total lead; total nickel; total manganese; total mercury; total zinc; total selenium; and soluble iron. Summary results, including means and compliance standards, are shown in Appendix AII for the Chicago and Calumet River Systems.

Generally, compliance with IPCB standards was high in 2005 in both the Chicago and Calumet River Systems. Sixteen water quality parameters were in complete compliance in both of these river systems. They were temperature; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total nickel; total manganese; total zinc; total selenium; and soluble iron. Seven water quality parameters which were not in complete compliance in both of the river systems are listed below with observed compliance rates.

Parameters	Percent Compliance Rate	
	Chicago	Calumet
Dissolved Oxygen	95.6	94.2
pH	99.5	94.2
Un-ionized Ammonia	99.5	100.0
Total Dissolved Solids	99.5	100.0
Total Iron	100.0	96.9
Total Lead	100.0	98.6
Total Mercury	100.0	98.6

TABLE 9: LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF SECONDARY CONTACT WATERS IN 2005

Map No. ¹	Station Name	Annual No. of Samples
<u>Chicago River System</u>		
36	Touhy Avenue, North Shore Channel	12
101	Foster Avenue, North Shore Channel	12
37	Wilson Avenue, North Branch Chicago River	12
73	Diversey Parkway, North Branch Chicago River	12
46	Grand Avenue, North Branch Chicago River	12
39	Madison Street, South Branch Chicago River	12
108	Loomis Street, South Branch Chicago River	10
99	Archer Avenue, South Fork South Branch Chicago River	12
40	Damen Avenue, Chicago Sanitary & Ship Canal	12
75	Cicero Avenue, Chicago Sanitary & Ship Canal	12
41	Harlem Avenue, Chicago Sanitary & Ship Canal	12
42	Route 83, Chicago Sanitary & Ship Canal	11
48	Stephen Street, Chicago Sanitary & Ship Canal	11
92	Lockport Forebay, Chicago Sanitary & Ship Canal	52
		<u>204</u>
<u>Calumet River System</u>		
86	Burnham Avenue, Grand Calumet River	10
56	Indiana Avenue, Little Calumet River	9
76	Halsted Street, Little Calumet River	12
58	Ashland Avenue, Calumet Sag Channel	13
59	Cicero Avenue, Calumet Sag Channel	12
43	Route 83, Calumet Sag Channel	11
		<u>67</u>

¹Refer to Figure 1.

Chicago River System. In addition to the 16 parameters listed above, total iron, total lead, and total mercury were also in total compliance. Violations of the pertinent Secondary Contact Standards for the remaining four parameters (dissolved oxygen, pH, un-ionized ammonia, total dissolved solids) occurred in at least one of the locations sampled. The compliance rates of these four parameters ranged from 95.6 to 99.5 percent. Detailed violation records for the noncompliant parameters are shown in Table 10.

A comparison of 2005 data with 2004 data indicated that there was no significant difference between 2005 and 2004 compliance rates for all parameters in this river system.

Calumet River System. In addition to the 16 parameters listed above, un-ionized ammonia and total dissolved solids were also in total compliance. Violations of the pertinent Secondary Contact Standards for the remaining five parameters (dissolved oxygen, pH, total iron, total lead, total mercury) occurred in at least one of the locations sampled.

The compliance rates of these five parameters ranged from 94.2 to 98.6 percent. Detailed violation records for the noncompliant parameters are shown in Table 11.

A comparison of 2005 data with 2004 data indicated that there was no significant difference between 2005 and 2004 compliance rates except for pH. In the Calumet River System, the compliance rate for pH significantly decreased from total compliance in 2004 to 94.2 percent in 2005.

The compliance rates for 23 water quality parameters due to Secondary Contact Standards for the Chicago and Calumet River Systems are presented in Figures 5 and 6, respectively.

TABLE 10: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS
OF SECONDARY CONTACT LIMITS IN THE SECONDARY CONTACT WATERS OF
THE CHICAGO RIVER SYSTEM IN 2005

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
DO	73	1	May
	46	1	May
	99	1	Apr
	75	1	Apr
	92	5	Apr, Jun(2), and Jul(2)
		9	Total violation of Dissolved Oxygen (DO)
pH	92	1	Sep
		1	Total violation of pH (pH)
NH ₃ -N	75	1	Feb
		1	Total violation of Un-ionized Ammonia (NH₃-N)
TDS	92	1	Jan
		1	Total violation of Total Dissolved Solids (TDS)

¹Number of violations in each month is 1 unless otherwise indicated in the paranthesis.

*Due to Human Health Standard in General Use Water.

TABLE 11: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS
OF SECONDARY CONTACT LIMITS IN THE SECONDARY CONTACT WATERS OF
THE CALUMET RIVER SYSTEM IN 2005

Parameter	Location No.	Total Violations	Months (No. of Viol) ¹
DO	86	$\frac{4}{4}$	May, Jun, Jul, and Aug Total violation of Dissolved Oxygen (DO)
pH	56 76 58 59	1 1 1 $\frac{1}{4}$	Sep Sep Sep Dec Total violation of pH (pH)
Fe	86	$\frac{2}{2}$	May, and Nov Total violation of Total Iron (Fe)
Pb	86	$\frac{1}{1}$	Nov Total violation of Total Lead (Pb)
Hg	86	$\frac{1}{1}$	Nov Total violation of Total Mercury (Hg)

¹Number of violations in each month is 1 unless otherwise indicated in the paranthesis.

*Due to Human Health Standard in General Use Water.

FIGURE 5: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CHICAGO RIVER IN 2004 AND 2005

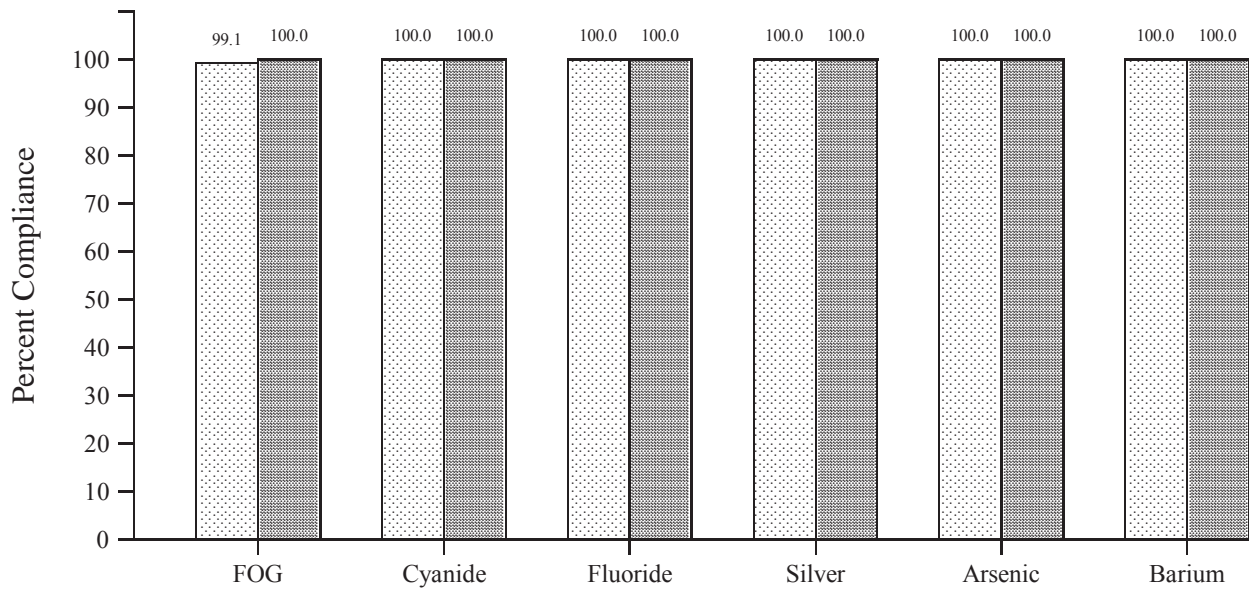
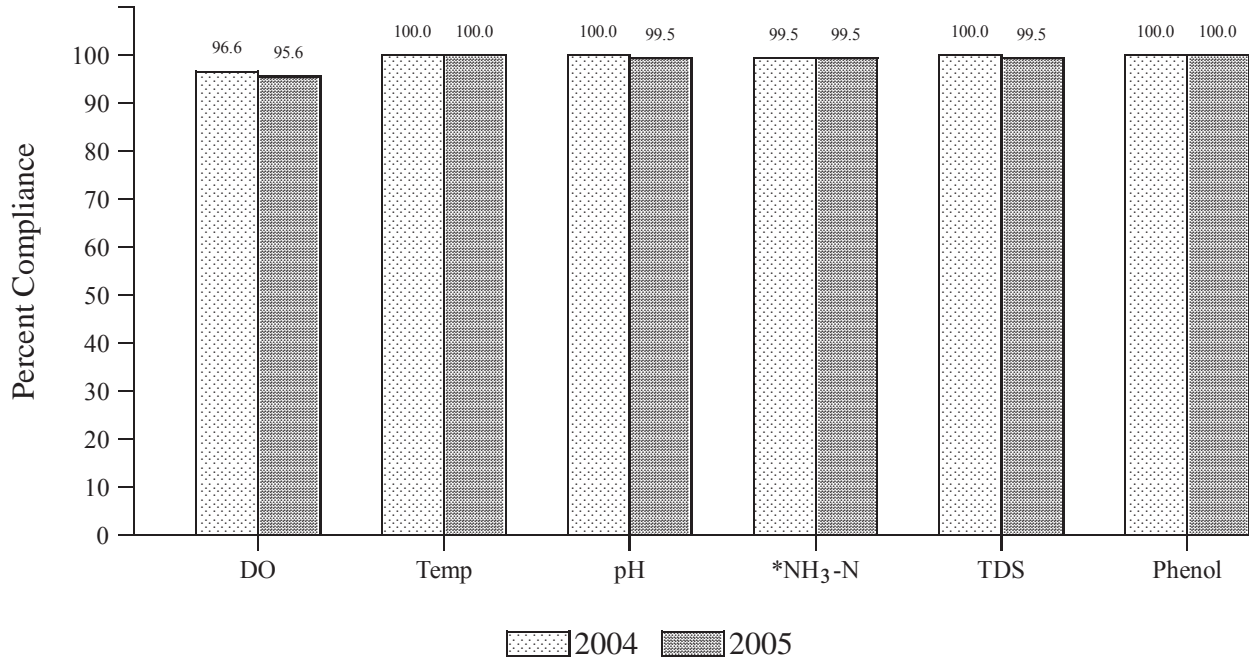
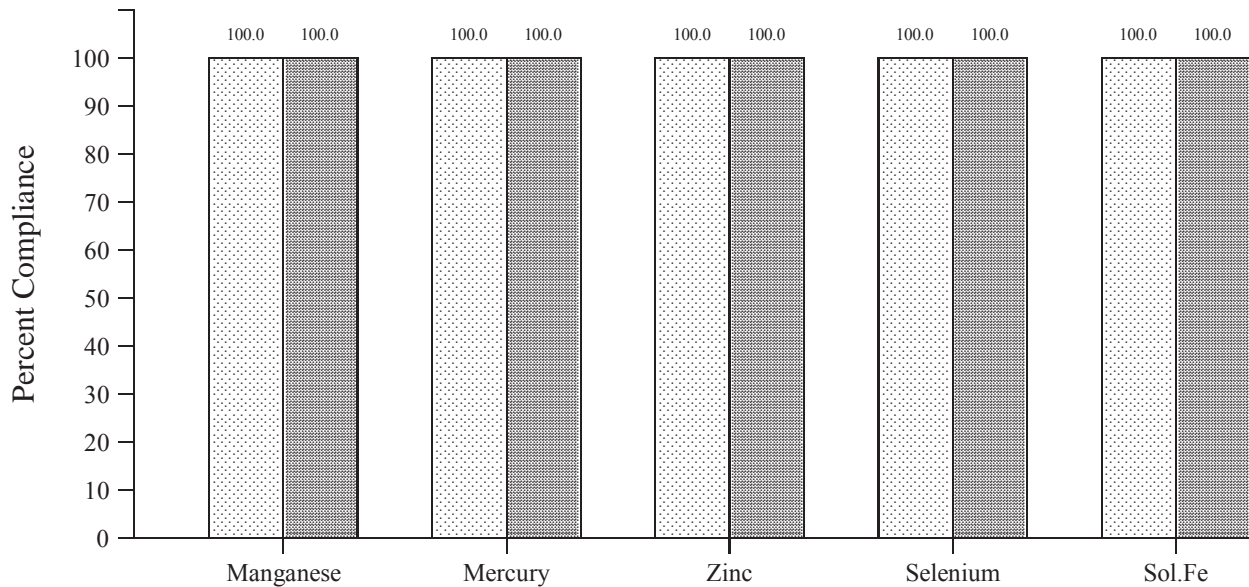
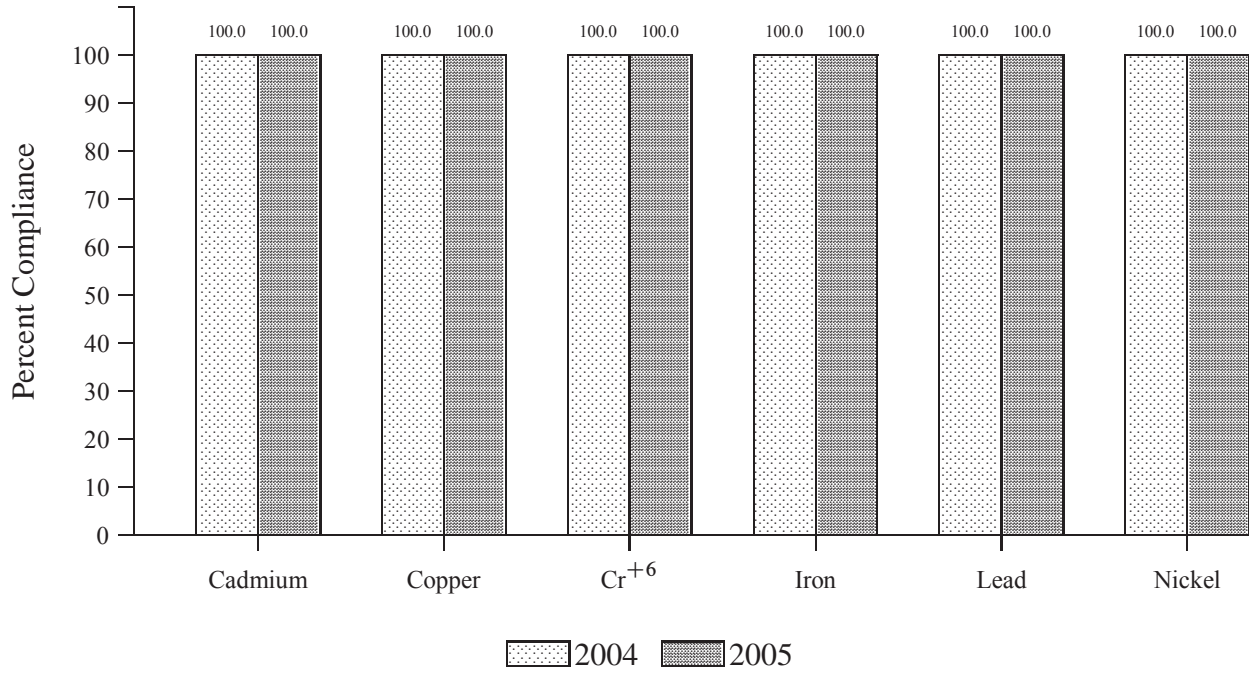


FIGURE 5 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CHICAGO RIVER IN 2004 AND 2005



*NH₃-N = Un-ionized Ammonia

FIGURE 6: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CALUMET RIVER IN 2004 AND 2005

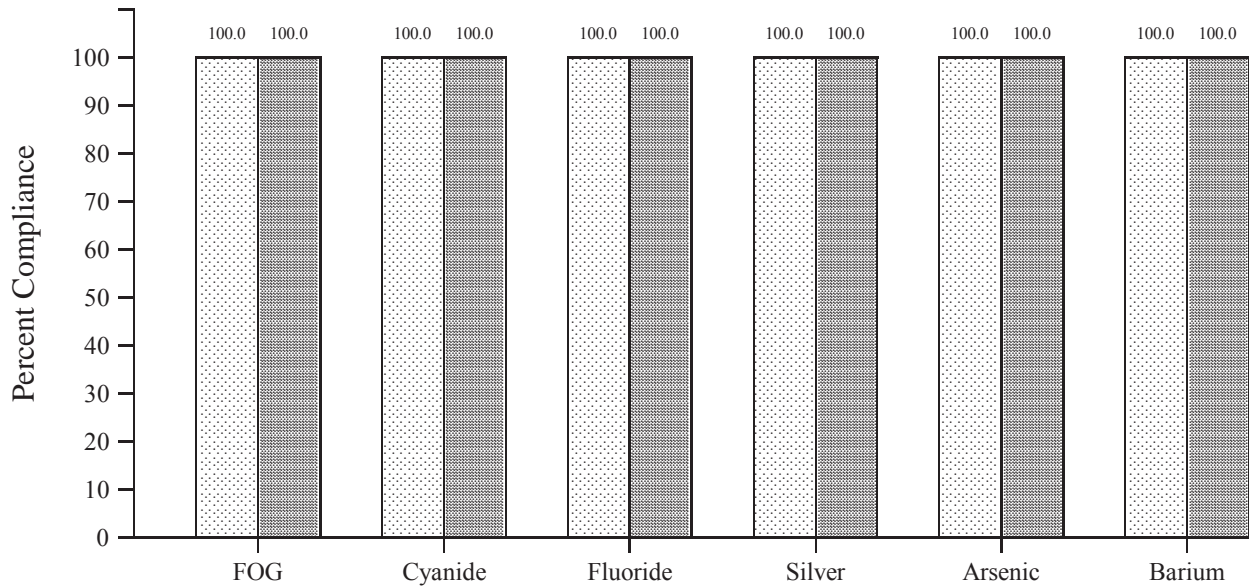
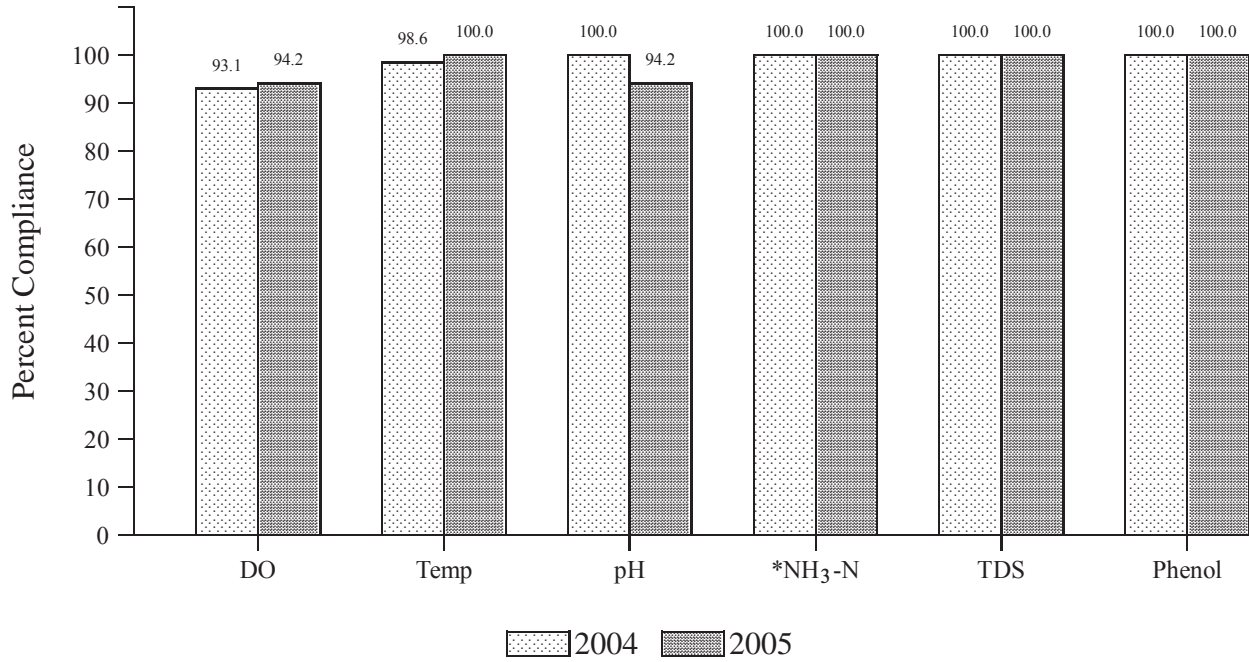
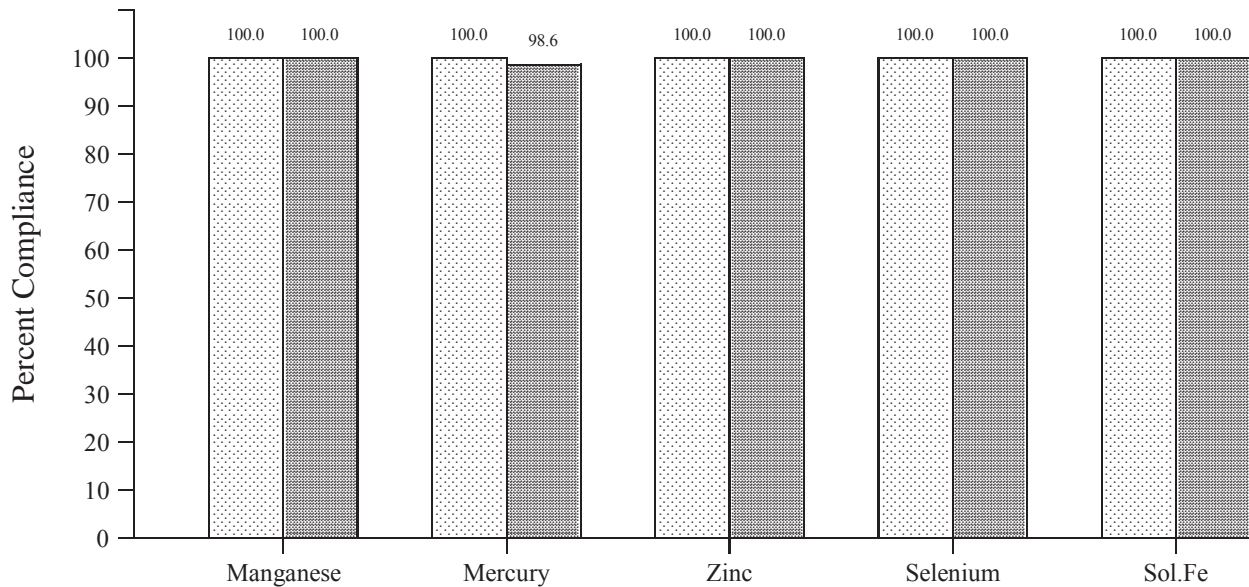
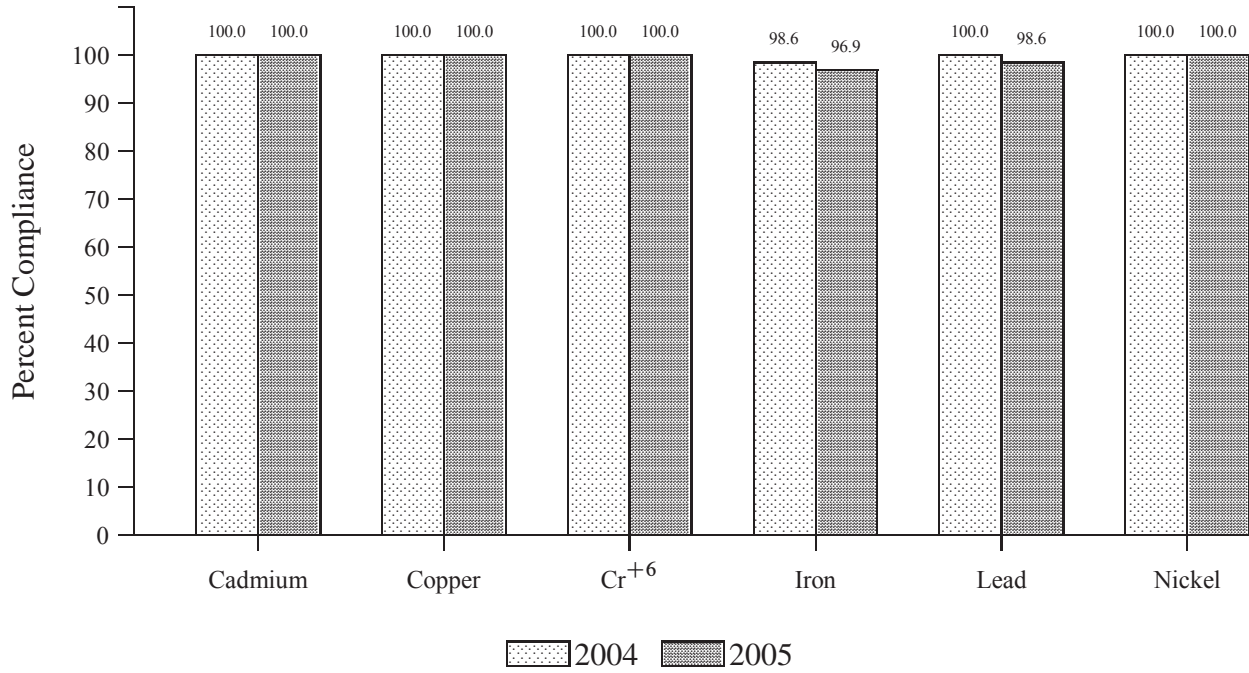


FIGURE 6 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CALUMET RIVER IN 2004 AND 2005



*NH₃-N = Un-ionized Ammonia

COMPLIANCE WITH RECEIVING WATER QUALITY STANDARDS UPSTREAM AND DOWNSTREAM OF DISTRICT OUTFALLS

Surface Water Sample Locations and Sample Frequencies

The District currently operates seven WRPs. The receiving waters upstream and downstream of the outfalls, the discharge points of the effluent from WRPs, for six of these WRPs were sampled during 2005. Three of these WRPs (Hanover Park, John E. Egan, and James C. Kirie) discharge their treated effluents into General Use Waters. The North Side, Stickney, and Calumet WRPs discharge their effluents into Secondary Contact Waters. During 2005, the lack of an upstream sampling location for the Lemont WRP, which was downstream of the Calumet-Sag junction, precluded an evaluation. Upstream and downstream sampling locations, as well as annual sampling frequencies for the respective WRPs, are shown in Table 12.

The outfalls for Hanover Park, John E. Egan, and James C. Kirie WRPs are located in the West Branch of the Du Page River, Salt Creek, and Higgins Creek, respectively. More specifically, the sampling stations for the plants that discharge to General Use Waters are located as follows:

1. The upstream station for the Hanover Park WRP is located at Long Meadow Lane, 100 feet above the outfall, and the downstream station is located at Walnut Lane, at 1,000 feet below the outfall.
2. The upstream station for the John E. Egan WRP is located at Higgins Road, 7,500 feet above the outfall, and the downstream station is located at Arlington Heights Road, 1,300 feet below the outfall.
3. The upstream sampling point for the James C. Kirie WRP is located at the Elmhurst Road, about 1,000 feet upstream of the outfall, while the downstream station is at the Wille Road Bridge, about 300 feet downstream of the outfall.

Specific locations of WRPs having outfalls located within the Secondary Contact Waters of the District's canal system are:

1. The North Side WRP discharges its treated effluent into the North Shore Channel. The upstream and downstream sample points are located at Central Road and Touhy Avenue, respectively. Central Road is 17,000 feet above the outfall, and Touhy Avenue is 3,600 feet below.
2. The upstream and downstream sample points for the Stickney WRP are Cicero Avenue and Harlem Avenue, respectively, both on the Chicago Sanitary and Ship Canal. Cicero Avenue is 7,900 feet above the outfall and Harlem Avenue is 9,200 feet below.
3. The upstream sample point for the Calumet WRP is located at Indiana Avenue on the Little Calumet River. Downstream samples of the outfall are taken at Halsted Street on the Little Calumet River. Indiana Avenue is 5,500 feet above the outfall, and Halsted Street is 6,600 feet below.

TABLE 12: ANNUAL SAMPLING FREQUENCIES AT UPSTREAM AND DOWNSTREAM LOCATIONS OF DISTRICT WATER RECLAMATION PLANTS IN 2005¹

WRP	Upstream Sample			Downstream Sample		
	Location	No. ¹	Freq.	Location	No. ¹	Freq.
North Side	Central Street, North Shore Channel	35	8	Touhy Avenue, North Shore Channel	36	12
Stickney	Cicero Avenue, Chicago Sanitary & Ship Canal	75	12	Harlem Avenue, Chicago Sanitary & Ship Canal	41	12
Calumet	Indiana Avenue, Little Calumet River	56	9	Halsted Street, Little Calumet River	76	12
John E. Egan	Higgins Road, Salt Creek	79	9	Arlington Heights Road, Salt Creek	80	12
James C. Kirie	Elmhurst Road, Higgins Creek	77	4	Wille Road, Higgins Creek	78	12
Hanover Park	Longmeadow Lane, West Branch DuPage River*	63	0	Walnut Lane, West Branch DuPage River	89	12

¹Location No. of stations are shown in Figure 1.

*Not sampled because the water level was too low to obtain a representative sample without being contaminated by sediment

Annual Summary Results for Water Quality Upstream and Downstream of District Outfalls

Several statistical analyses were performed to evaluate the effect of flow from each WRP on its receiving stream. The sample values of each parameter at the upstream and downstream locations were first tested to see if they exhibited normal distribution and then tested for equality of variances. If the upstream and downstream sample data came from normally distributed populations and had equal variance, an exact t-test was used for testing the equality of upstream and downstream means. An approximate t-test was used if the data came from two different normally distributed populations.

If the sample size for each of the upstream and downstream data sets was less than 30, and did not come from normally distributed populations, a Wilcoxon rank-sum test was used to test for the equality of two population centers. Wilcoxon test applies to sample mean and median if both upstream and downstream populations come from symmetric populations otherwise, the test applies to population medians only. Symmetry of a population was determined by a box plot if the sample size was small ($n < 30$).

The mean levels for each parameter measured at the upstream and downstream locations of each WRP, and the appropriate significance probability associated with the exact t-test/approximate t-test or Wilcoxon rank-sum test are tabulated in Tables 13 through 17. Tables AIII-1 through AIII-5 in Appendix AIII show in detail the significance probability for testing normality, and equality of variances of the upstream and downstream data, and the significance probability for testing the equality of upstream and downstream means employing an appropriate test.

Sixty-eight water quality parameters, including 42 parameters which have either IPCB General Use, Human Health, or Secondary Contact limits, were assayed for all WRPs in 2005. Comparison of the mean concentrations of the common parameters (maximum of 68) at upstream and downstream locations showed that the downstream mean concentrations are significantly different from the upstream mean concentrations for some parameters, and about the same for the other parameters. This was indicated by the significance probabilities given in Tables 13 through 17. A value of 0.05 or smaller indicates that the two means are significantly different, and a value greater than 0.05 indicates there is no difference between means.

Steps involved in the evaluation of the results of this type of comparison were:

1. Identify the parameters that exhibit a difference in the mean concentration levels observed at the upstream and downstream locations.
2. Determine if the mean concentration levels at the upstream and downstream locations for a parameter are different, and if the difference in the levels is attributable to wastewater treatment processing.
3. Determine if the fluctuations in the concentration levels of the parameter adversely affect the quality of the receiving stream as assessed by compliance with the water quality standard pertinent to that parameter.

TABLE 13: COMPARISON OF LEVELS OF 59 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Dissolved Oxygen	DO (mg/L)	7.5		8.0	0.603
Temperature	Temp (°C)	18		16	0.600
pH	pH	7.7		7.1	0.057
Alkalinity (Total)	Alk (mg/L)	115		136	0.029
Chloride	Cl (mg/L)	35		150	0.017
Turbidity	Turb (NTU)	5.9		6.5	0.609
Total Kjeldahl Nitrogen	TKN (mg/L)	0.39		3.08	0.002
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.07		1.72	0.009
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.002		0.012	0.027
Organic Nitrogen	ORG-N (mg/L)	0.32		1.37	0.000
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.23		5.24	0.000
Total Solids	TS (mg/L)	244		511	0.004
Total Suspended Solids	TSS (mg/L)	8.5		10.9	0.352
Volatile Suspended Solids	VSS (mg/L)	3.4		4.9	0.316
Total Dissolved Solids	TDS (mg/L)	236		500	0.005
Phenols	Phenol (µg/L)	4.3		9.1	0.013
Sulfate	SO ₄ (mg/L)	27		47	0.001
Total Phosphorus	TP (mg/L)	<0.04		1.24	0.000
WAD Cyanide	WAD-CN (mg/L)	0.0004		0.0010	0.001
Fluoride	F (mg/L)	0.14		0.68	0.000
Total Organic Carbon	TOC (mg/L)	2.5		6.4	0.001
Fecal Coliform *	FC (cfu/100mL)	144		11481	0.001
Escherichia Coli *	EColi (cfu/100mL)	78		10341	0.077
Total Calcium	Ca (mg/L)	39		52	0.004
Total Magnesium	Mg (mg/L)	13		18	0.008
Hardness	Hard (mg/L)	153		205	0.005

TABLE 13 (Continued): COMPARISON OF LEVELS OF 59 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.3		4.3	0.035
Gross Beta Radioactivity	G.Beta (pCi/L)	4.3		7.9	0.000
Chlorophyll <i>a</i>	Chlrphl ($\mu\text{g/L}$)	3.6		1.6	0.474
Benzene	Bnzn ($\mu\text{g/L}$)	<2		<2	-
Ethylbenzene	Ebnzn ($\mu\text{g/L}$)	<2		<2	-
Toluene	Toln ($\mu\text{g/L}$)	<2		<2	-
Xylene	Xyln ($\mu\text{g/L}$)	<2		<2	-
Total Silver	Ag (mg/L)	<0.0008		<0.0008	-
Total Barium	Ba (mg/L)	0.025		0.022	0.142
Total Boron	B (mg/L)	0.039		0.180	0.000
Total Cadmium	Cd (mg/L)	<0.0004		<0.0004	-
Total Copper	Cu (mg/L)	0.014		0.017	0.223
Total Hexavalent Chromium	Cr ⁺⁶ ($\mu\text{g/L}$)	<2		<2	-
Total Iron	Fe (mg/L)	0.329		0.209	0.364
Total Lead	Pb (mg/L)	0.002		0.003	0.556
Total Nickel	Ni (mg/L)	<0.002		0.002	0.014
Total Manganese	Mn (mg/L)	0.045		0.021	0.492
Total Mercury	Hg ($\mu\text{g/L}$)	<0.05		<0.05	-
Total Zinc	Zn (mg/L)	0.019		0.042	0.040
Total Selenium	Se (mg/L)	0.007		0.008	0.600
Soluble Calcium	Sol.Ca (mg/L)	32.8		46.8	0.002
Soluble Magnesium	Sol.Mg (mg/L)	11.3		16.8	0.007
Soluble Silver	Sol.Ag (mg/L)	<0.0003		<0.0003	-
Soluble Arsenic	Sol.As (mg/L)	<0.002		<0.002	-
Soluble Barium	Sol.Ba (mg/L)	0.019		0.018	0.545
Soluble Boron	Sol.B (mg/L)	0.030		0.168	0.000

TABLE 13 (Continued): COMPARISON OF LEVELS OF 59 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Soluble Cadmium	Sol.Cd (mg/L)	<0.0003		<0.0003	-
Soluble Chromium	Sol.Cr (mg/L)	0.001		<0.0007	0.630
Soluble Iron	Sol.Fe (mg/L)	0.022		0.025	0.870
Soluble Lead	Sol.Pb (mg/L)	0.001		0.001	0.304
Soluble Manganese	Sol.Mn (mg/L)	0.005		0.013	0.005
Soluble Zinc	Sol.Zn (mg/L)	0.004		0.029	0.000
Soluble Selenium	Sol.Se (mg/L)	0.007		0.006	0.409

¹Nine out of 68 parameters are not included because they were not analyzed.

²Value following < sign is the detection limit.

³Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

⁴Some tests may be based on Wilcoxon rank-sum statistics that apply to population medians only in the absence of population symmetry. Please see appendix AIII-1 for details.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means (see appendix AIII-1) for details.

-=No test was done since standard deviation is zero.

TABLE 14: COMPARISON OF LEVELS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Dissolved Oxygen	DO (mg/L)	6.1		7.3	0.059
Temperature	Temp (°C)	20		17	0.437
pH	pH	7.2		7.1	0.639
Alkalinity (Total)	Alk (mg/L)	140		126	0.241
Chloride	Cl (mg/L)	156		162	0.883
Turbidity	Turb (NTU)	12		6	0.000
Total Kjeldahl Nitrogen	TKN (mg/L)	2.1		1.9	0.773
Ammonium Nitrogen	NH ₄ -N (mg/L)	1.2		0.9	0.620
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.023		0.007	0.160
Organic Nitrogen	ORG-N (mg/L)	0.92		0.99	0.556
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	4.1		7.7	0.000
Total Solids	TS (mg/L)	495		530	0.670
Total Suspended Solids	TSS (mg/L)	13		10	0.039
Volatile Suspended Solids	VSS (mg/L)	2.5		3.5	0.414
Total Dissolved Solids	TDS (mg/L)	482		520	0.640
Phenols	Phenol (µg/L)	6.8		6.6	0.895
Sulfate	SO ₄ (mg/L)	50		71	0.006
Fats, Oils, and Greases	FOG (mg/L)	<1.8		<1.8	-
Total Phosphorus	TP (mg/L)	0.75		0.99	0.217
Total Cyanide	CN (mg/L)	0.002		0.003	0.039
WAD Cyanide	WAD-CN (mg/L)	0.0007		0.0011	0.030
Fluoride	F (mg/L)	0.53		0.74	0.002
Total Organic Carbon	TOC (mg/L)	5.1		5.9	0.334
Fecal Coliform *	FC (cfu/100mL)	129		2668	0.000
Escherichia Coli *	EColi (cfu/100mL)	78		2267	0.016
Total Calcium	Ca (mg/L)	54		54	0.967

TABLE 14 (Continued): COMPARISON OF LEVELS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Total Magnesium	Mg (mg/L)	20		20	0.979
Hardness	Hard (mg/L)	217		216	0.972
Gross Alpha Radioactivity	G.Alpha (pCi/L)	4.2		4.3	0.806
Gross Beta Radioactivity	G.Beta (pCi/L)	7.4		8.0	0.505
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	6.5		3.6	0.120
Benzene	Bzn (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<2		<2	-
Total Arsenic	As (mg/L)	<0.003		<0.003	-
Total Barium	Ba (mg/L)	0.025		0.020	0.029
Total Boron	B (mg/L)	0.133		0.176	0.003
Total Cadmium	Cd (mg/L)	<0.0004		<0.0004	-
Total Copper	Cu (mg/L)	0.019		0.013	0.049
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	0.401		0.256	0.005
Total Lead	Pb (mg/L)	0.007		0.004	0.048
Total Nickel	Ni (mg/L)	0.004		0.006	0.028
Total Manganese	Mn (mg/L)	0.029		0.019	0.033
Total Zinc	Zn (mg/L)	0.040		0.041	0.812
Total Selenium	Se (mg/L)	0.010		0.008	0.631
Soluble Calcium	Sol.Ca (mg/L)	51.1		51.4	0.973
Soluble Magnesium	Sol.Mg (mg/L)	18.8		18.9	0.978
Soluble Silver	Sol.Ag (mg/L)	<0.0003		<0.0003	-
Soluble Arsenic	Sol.As (mg/L)	<0.002		<0.002	-
Soluble Barium	Sol.Ba (mg/L)	0.020		0.016	0.176

TABLE 14 (Continued): COMPARISON OF LEVELS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Soluble Boron	Sol.B (mg/L)	0.126		0.165	0.002
Soluble Cadmium	Sol.Cd (mg/L)	<0.0003		<0.0003	-
Soluble Chromium	Sol.Cr (mg/L)	<0.0007		0.001	0.002
Soluble Iron	Sol.Fe (mg/L)	0.026		0.027	0.981
Soluble Lead	Sol.Pb (mg/L)	0.001		0.001	0.971
Soluble Nickel	Sol.Ni (mg/L)	0.002		0.004	0.010
Soluble Manganese	Sol.Mn (mg/L)	0.018		0.013	0.213
Soluble Zinc	Sol.Zn (mg/L)	0.021		0.024	0.447
Soluble Selenium	Sol.Se (mg/L)	0.006		0.006	0.893

¹Seven out of 68 parameters are not included because they were not analyzed.

²Value following < sign is the detection limit.

³Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

⁴Some tests may be based on Wilcoxon rank-sum statistics that apply to population medians only in the absence of population symmetry. Please see appendix AIII-2 for details.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means (see appendix AIII-2) for details.

-=No test was done since standard deviation is zero.

TABLE 15: COMPARISON OF LEVELS OF 61 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Dissolved Oxygen	DO (mg/L)	8.8		7.0	0.044
Temperature	Temp (°C)	16		16	0.911
pH	pH	7.1		7.1	0.892
Alkalinity (Total)	Alk (mg/L)	125		153	0.035
Chloride	Cl (mg/L)	82		174	0.030
Turbidity	Turb (NTU)	25		10	0.001
Total Kjeldahl Nitrogen	TKN (mg/L)	0.84		1.26	0.022
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.20		0.28	0.313
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.001		0.003	0.185
Organic Nitrogen	ORG-N (mg/L)	0.64		0.98	0.010
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	1.4		5.3	0.000
Total Solids	TS (mg/L)	370		559	0.061
Total Suspended Solids	TSS (mg/L)	25		11	0.012
Volatile Suspended Solids	VSS (mg/L)	4.7		3.6	0.502
Total Dissolved Solids	TDS (mg/L)	345		548	0.047
Phenols	Phenol (µg/L)	5.0		9.9	0.002
Sulfate	SO ₄ (mg/L)	64		91	0.046
Total Phosphorus	TP (mg/L)	0.37		2.08	0.000
Total Cyanide	CN (mg/L)	<0.002		0.003	0.024
WAD Cyanide	WAD-CN (mg/L)	0.0006		0.0010	0.086
Fluoride	F (mg/L)	0.32		0.58	0.000
Total Organic Carbon	TOC (mg/L)	3.8		5.9	0.033
Fecal Coliform *	FC (cfu/100mL)	73		2759	0.000
Escherichia Coli *	EColi (cfu/100mL)	63		2838	0.023
Total Calcium	Ca (mg/L)	48		63	0.033
Total Magnesium	Mg (mg/L)	18		22	0.097

TABLE 15 (Continued): COMPARISON OF LEVELS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Hardness	Hard (mg/L)	193		249	0.050
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.6		4.7	0.064
Gross Beta Radioactivity	G.Beta (pCi/L)	6.6		9.1	0.021
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	16		7	0.045
Benzene	Bnzn (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<2		<2	-
Total Silver	Ag (mg/L)	<0.0008		<0.0008	-
Total Arsenic	As (mg/L)	<0.003		<0.003	-
Total Barium	Ba (mg/L)	0.030		0.022	0.001
Total Boron	B (mg/L)	0.116		0.205	0.014
Total Cadmium	Cd (mg/L)	<0.0004		<0.0004	-
Total Copper	Cu (mg/L)	0.015		0.015	0.837
Total Chromium	Cr (mg/L)	<0.004		<0.004	-
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	0.684		0.321	0.004
Total Lead	Pb (mg/L)	0.006		0.005	0.385
Total Nickel	Ni (mg/L)	0.002		0.004	0.225
Total Manganese	Mn (mg/L)	0.037		0.037	0.998
Total Mercury	Hg (μ g/L)	<0.05		<0.05	-
Total Zinc	Zn (mg/L)	0.030		0.051	0.032
Total Selenium	Se (mg/L)	0.005		0.006	0.633
Soluble Calcium	Sol.Ca (mg/L)	44.7		60.7	0.022
Soluble Magnesium	Sol.Mg (mg/L)	16.7		21.7	0.073
Soluble Silver	Sol.Ag (mg/L)	<0.0003		<0.0003	-
Soluble Barium	Sol.Ba (mg/L)	0.025		0.018	0.003

TABLE 15 (Continued): COMPARISON OF LEVELS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Soluble Boron	Sol.B (mg/L)	0.111		0.193	0.021
Soluble Cadmium	Sol.Cd (mg/L)	<0.0003		<0.0003	-
Soluble Chromium	Sol.Cr (mg/L)	<0.0007		0.001	0.228
Soluble Iron	Sol.Fe (mg/L)	0.006		0.038	0.000
Soluble Lead	Sol.Pb (mg/L)	0.002		0.002	0.372
Soluble Nickel	Sol.Ni (mg/L)	<0.002		0.002	0.196
Soluble Manganese	Sol.Mn (mg/L)	0.012		0.029	0.017
Soluble Zinc	Sol.Zn (mg/L)	0.009		0.026	0.000
Soluble Selenium	Sol.Se (mg/L)	0.003		0.004	0.808

¹Seven out of 68 parameters are not included because they were not analyzed.

²Value following < sign is the detection limit.

³Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

⁴Some tests may be based on Wilcoxon rank-sum statistics that apply to population medians only in the absence of population symmetry. Please see appendix AIII-3 for details.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means (see appendix AIII-3) for details.

-=No test was done since standard deviation is zero.

TABLE 16: COMPARISON OF LEVELS OF 62 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Dissolved Oxygen	DO (mg/L)	6.2		8.5	0.093
Temperature	Temp (°C)	19		16	0.505
pH	pH	7.4		7.4	0.798
Alkalinity (Total)	Alk (mg/L)	142		136	0.725
Chloride	Cl (mg/L)	409		323	0.335
Turbidity	Turb (NTU)	43		6	0.003
Total Kjeldahl Nitrogen	TKN (mg/L)	1.4		1.2	0.052
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.10		0.16	0.306
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.002		0.006	0.696
Organic Nitrogen	ORG-N (mg/L)	1.3		1.0	0.048
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.27		7.98	0.000
Total Solids	TS (mg/L)	1075		733	0.056
Total Suspended Solids	TSS (mg/L)	41		10	0.003
Volatile Suspended Solids	VSS (mg/L)	11		5	0.001
Total Dissolved Solids	TDS (mg/L)	1034		723	0.085
Phenols	Phenol (µg/L)	11		6	0.014
Sulfate	SO ₄ (mg/L)	79		83	0.758
Total Phosphorus	TP (mg/L)	0.11		2.02	0.000
Total Cyanide	CN (mg/L)	<0.002		0.003	0.043
WAD Cyanide	WAD-CN (mg/L)	0.0004		0.0017	0.004
Fluoride	F (mg/L)	0.21		0.55	0.001
Total Organic Carbon	TOC (mg/L)	8.4		7.1	0.168
Fecal Coliform *	FC (cfu/100mL)	499		389	0.843
Escherichia Coli *	EColi (cfu/100mL)	158		487	0.624
Total Calcium	Ca (mg/L)	66		66	0.951
Total Magnesium	Mg (mg/L)	30		26	0.441

TABLE 16 (Continued): COMPARISON OF LEVELS OF 62 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Hardness	Hard (mg/L)	286		273	0.734
Gross Alpha Radioactivity	G.Alpha (pCi/L)	6.3		5.7	0.515
Gross Beta Radioactivity	G.Beta (pCi/L)	8.3		10.3	0.143
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	31		12	0.000
Benzene	Bnzn (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<2		<2	-
Total Silver	Ag (mg/L)	<0.0008		<0.0008	-
Total Arsenic	As (mg/L)	<0.003		<0.003	-
Total Barium	Ba (mg/L)	0.053		0.033	0.007
Total Boron	B (mg/L)	0.098		0.205	0.001
Total Cadmium	Cd (mg/L)	0.001		0.001	0.503
Total Copper	Cu (mg/L)	0.017		0.018	0.731
Total Chromium	Cr (mg/L)	<0.004		<0.004	-
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<2		2.250	0.479
Total Iron	Fe (mg/L)	1.534		0.344	0.004
Total Lead	Pb (mg/L)	0.005		0.003	0.180
Total Nickel	Ni (mg/L)	0.004		0.003	0.276
Total Manganese	Mn (mg/L)	0.138		0.063	0.003
Total Mercury	Hg (μ g/L)	<0.05		<0.05	-
Total Zinc	Zn (mg/L)	0.028		0.039	0.127
Total Selenium	Se (mg/L)	0.007		0.009	0.533
Soluble Calcium	Sol.Ca (mg/L)	60.1		62.7	0.767
Soluble Magnesium	Sol.Mg (mg/L)	27.6		25.0	0.520
Soluble Silver	Sol.Ag (mg/L)	<0.0003		<0.0003	-

TABLE 16 (Continued): COMPARISON OF LEVELS OF 62 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Soluble Arsenic	Sol.As (mg/L)	<0.002		<0.002	-
Soluble Barium	Sol.Ba (mg/L)	0.041		0.028	0.027
Soluble Boron	Sol.B (mg/L)	0.092		0.192	0.001
Soluble Cadmium	Sol.Cd (mg/L)	<0.0003		<0.0003	-
Soluble Iron	Sol.Fe (mg/L)	0.043		0.044	0.915
Soluble Lead	Sol.Pb (mg/L)	0.002		0.001	0.480
Soluble Nickel	Sol.Ni (mg/L)	<0.002		0.002	0.384
Soluble Manganese	Sol.Mn (mg/L)	0.037		0.025	0.353
Soluble Zinc	Sol.Zn (mg/L)	0.004		0.022	0.000
Soluble Selenium	Sol.Se (mg/L)	0.005		0.007	0.277

¹Six out of 68 parameters are not included because they were not analyzed.

²Value following < sign is the detection limit.

³Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

⁴Some tests may be based on Wilcoxon rank-sum statistics that apply to population medians only in the absence of population symmetry. Please see appendix AIII-4 for details.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means (see appendix AIII-4) for details.

-=No test was done since standard deviation is zero.

TABLE 17: COMPARISON OF LEVELS OF 60 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Dissolved Oxygen	DO (mg/L)	9.2		8.9	0.827
Temperature	Temp (°C)	12		17	0.250
pH	pH	7.4		7.4	0.952
Alkalinity (Total)	Alk (mg/L)	120		150	0.108
Chloride	Cl (mg/L)	478		220	0.123
Turbidity	Turb (NTU)	29		4	0.017
Total Kjeldahl Nitrogen	TKN (mg/L)	1.3		1.5	0.517
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.12		0.27	0.073
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.003		0.003	0.916
Organic Nitrogen	ORG-N (mg/L)	1.2		1.2	0.798
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.44		9.44	0.000
Total Solids	TS (mg/L)	1110		716	0.225
Total Suspended Solids	TSS (mg/L)	29		3	0.005
Volatile Suspended Solids	VSS (mg/L)	9.5		1.2	0.000
Total Dissolved Solids	TDS (mg/L)	1081		713	0.251
Phenols	Phenol (µg/L)	11		8	0.033
Sulfate	SO ₄ (mg/L)	47		104	0.000
Total Phosphorus	TP (mg/L)	0.10		1.58	0.000
Total Cyanide	CN (mg/L)	0.003		0.003	0.785
WAD Cyanide	WAD-CN (mg/L)	0.0006		0.0009	0.381
Fluoride	F (mg/L)	0.19		0.88	0.000
Total Organic Carbon	TOC (mg/L)	7.8		7.9	0.843
Fecal Coliform *	FC (cfu/100mL)	1932		382	0.289
Escherichia Coli *	EColi (cfu/100mL)	890		1077	0.941
Total Calcium	Ca (mg/L)	60		69	0.428
Total Magnesium	Mg (mg/L)	20		26	0.243

TABLE 17 (Continued): COMPARISON OF LEVELS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs	D ²	Sig. Prob. ^(3,4)
Hardness	Hard (mg/L)	233		278	0.344
Gross Alpha Radioactivity	G.Alpha (pCi/L)	7.8		4.8	0.191
Gross Beta Radioactivity	G.Beta (pCi/L)	11		15	0.074
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	14		2	0.011
Benzene	Bnzn (μ g/L)	<2		<2	-
Ethylbenzene	Ebnzn (μ g/L)	<2		<2	-
Toluene	Toln (μ g/L)	<2		<2	-
Xylene	Xyln (μ g/L)	<2		<2	-
Total Barium	Ba (mg/L)	0.056		0.020	0.027
Total Boron	B (mg/L)	0.081		0.366	0.000
Total Cadmium	Cd (mg/L)	<0.0004		<0.0004	-
Total Copper	Cu (mg/L)	0.016		0.017	0.839
Total Chromium	Cr (mg/L)	<0.004		<0.004	-
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<2		<2	-
Total Iron	Fe (mg/L)	0.866		0.160	0.008
Total Lead	Pb (mg/L)	0.004		0.004	1.000
Total Nickel	Ni (mg/L)	0.002		0.014	0.000
Total Manganese	Mn (mg/L)	0.106		0.023	0.012
Total Zinc	Zn (mg/L)	0.041		0.076	0.048
Total Selenium	Se (mg/L)	0.010		0.008	0.416
Soluble Calcium	Sol.Ca (mg/L)	52.2		64.0	0.259
Soluble Magnesium	Sol.Mg (mg/L)	17.8		24.3	0.138
Soluble Arsenic	Sol.As (mg/L)	<0.002		<0.002	-
Soluble Barium	Sol.Ba (mg/L)	0.049		0.018	0.055
Soluble Boron	Sol.B (mg/L)	0.074		0.341	0.000
Soluble Cadmium	Sol.Cd (mg/L)	<0.0003		<0.0003	-

TABLE 17 (Continued): COMPARISON OF LEVELS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2005¹

Parameter	Abbreviation (Units)	U ²	vs D ²	Sig. Prob. ^(3,4)
Soluble Copper	Sol.Cu (mg/L)	<0.002	0.002	0.129
Soluble Chromium	Sol.Cr (mg/L)	0.001	0.001	0.123
Soluble Iron	Sol.Fe (mg/L)	0.052	0.046	0.691
Soluble Lead	Sol.Pb (mg/L)	0.002	0.002	0.957
Soluble Nickel	Sol.Ni (mg/L)	<0.002	0.012	0.000
Soluble Manganese	Sol.Mn (mg/L)	0.072	0.016	0.026
Soluble Zinc	Sol.Zn (mg/L)	0.017	0.063	0.000
Soluble Selenium	Sol.Se (mg/L)	0.009	0.006	0.144

¹Eight out of 68 parameters are not included because they were not analyzed.

²Value following < sign is the detection limit.

³Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

⁴Some tests may be based on Wilcoxon rank-sum statistics that apply to population medians only in the absence of population symmetry. Please see appendix AIII-5 for details.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means (see appendix AIII-5) for details.

--No test was done since standard deviation is zero.

A study of the concentrations of the water quality parameters presented in Tables 13 through 17 and the tables in Appendix II revealed that the quality of effluents from the District's WRPs was high with respect to most parameters. This conclusion was based on the interpretation of the statistical inferences. In general, statistically significant differences existed between upstream and downstream locations for those parameters that were affected by wastewater treatment. Parameters which are significantly different in the downstream location from the upstream location and were subject to water quality limits are identified for each WRP. For some of the parameters, water quality standards exist whereas for others there are no such standards. A discussion of the results from each WRP follows. Parameters which are significantly different in the downstream location from the upstream location and were subject to water quality limits are identified for each WRP.

North Side WRP. Locations 35 and 36, upstream and downstream, respectively, of the North Side WRP, are classified as General Use and Secondary Contact waters. Sixty water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 29 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- alkalinity (total), chloride, total Kjeldahl nitrogen, ammonium nitrogen, un-ionized ammonia, organic nitrogen, nitrite plus nitrate nitrogen, total solids, total dissolved solids, phenols, sulfate, total phosphorus, weak acid dissociable cyanide, fluoride, total organic carbon, fecal coliform, total calcium, total magnesium, hardness, gross alpha radioactivity, gross beta radioactivity, total boron, total nickel, total zinc, soluble calcium, soluble magnesium, soluble boron, soluble manganese, and soluble zinc.

The downstream average concentrations of all parameters were significantly higher than the upstream average concentration.

Out of the 29 parameters listed above, 14 parameters have either IPCB Human Health, General Use, or Secondary Contact Water quality limits. These parameters are:

- chloride, ammonium nitrogen, un-ionized ammonia, total dissolved solids, phenols, sulfate, weak acid dissociable cyanide, fluoride, fecal coliform, gross beta radioactivity, total boron, total nickel, total zinc, and soluble zinc.

Ten of the 14 parameters referenced with IPCB Human Health, General Use, or Secondary Contact limits were in total compliance at the upstream location. These parameters were:

- chloride, ammonium nitrogen, total dissolved solids, phenols, sulfate, weak acid dissociable cyanide, fluoride, gross beta radioactivity, total boron, and soluble zinc.

The percent compliance rate of fecal coliform was 87.5 percent. The remaining three parameters (un-ionized ammonia, total nickel, and total zinc) were not regulated by IPCB Human Health or General Use limits.

Six of the 14 parameters referenced with IPCB Human Health, General Use, or Secondary Contact water quality limits were in total compliance at the downstream location. These parameters were:

- un-ionized ammonia, total dissolved solids, phenols, fluoride, total nickel, and total zinc

The remaining eight parameters (chloride, ammonium nitrogen, sulfate, weak acid dissociable cyanide, fecal coliform, gross beta radioactivity, total boron, and soluble zinc) were not regulated by IPCB Secondary Contact limits.

Stickney WRP. Both the upstream and downstream sampling locations (75 and 41, respectively) of the Stickney WRP are located in the Secondary Contact Waters of the Chicago River System. Sixty-three water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 19 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- turbidity, nitrite plus nitrate nitrogen, total suspended solids, sulfate, total cyanide, weak acid dissociable cyanide, fluoride, fecal coliform, escherichia coli, total barium, total boron, total copper, total iron, total lead, total nickel, total manganese, soluble boron, soluble chromium, and soluble nickel.

Seven parameters had significantly higher mean concentrations upstream than downstream. These parameters were:

- turbidity, total suspended solids, total barium, total copper, total iron, total lead, and total manganese.

The remaining 12 parameters had significantly higher mean concentrations downstream than upstream. These parameters were:

- nitrite plus nitrate nitrogen, sulfate, total cyanide, weak acid dissociable cyanide, fluoride, fecal coliform, escherichia coli, total boron, total nickel, soluble boron, soluble chromium, and soluble nickel.

Out of the 19 parameters listed above, 8 parameters have IPCB Secondary Contact Water quality limits. These parameters are:

- total cyanide, fluoride, total barium, total copper, total iron, total lead, total nickel, and total manganese.

All eight of the parameters listed above were in total compliance at both locations.

Calumet WRP. Both the upstream and downstream sampling locations (56 and 76, respectively) of Calumet WRP are located in the Secondary Contact Waters of the Calumet River System. Sixty-one water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations: The following 31 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- dissolved oxygen, alkalinity (total), chloride, turbidity, total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, total suspended solids, total dissolved solids, phenols, sulfate, total phosphorus, total cyanide, fluoride, total organic carbon, fecal coliform, escherichia coli, total calcium, hardness, gross beta radioactivity, chlorophyll *a*, total barium, total boron, total iron, total zinc,

soluble calcium, soluble barium, soluble boron, soluble iron, soluble manganese, and soluble zinc.

Seven parameters had significantly higher mean concentrations upstream than downstream. These parameters were:

- dissolved oxygen, turbidity, total suspended solids, chlorophyll *a*, total barium, total iron, and soluble barium.

The remaining 24 parameters had significantly higher mean concentrations downstream than upstream. These parameters were:

- alkalinity (total), chloride, total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, total dissolved solids, phenols, sulfate, total phosphorus, total cyanide, fluoride, total organic carbon, fecal coliform, escherichia coli, total calcium, hardness, gross beta radioactivity, total boron, total zinc, soluble calcium, soluble boron, soluble iron, soluble manganese, and soluble zinc.

Out of the 31 parameters listed above, 9 parameters have IPCB Secondary Contact Water quality limits. These parameters are:

- dissolved oxygen, total dissolved solids, phenols, total cyanide, fluoride, total barium, total iron, total zinc, and soluble iron.

All nine of the parameters listed above were in total compliance at both locations.

John E. Egan WRP. Both the upstream and downstream sampling locations (79 and 80, respectively) of John E. Egan WRP are located in the General Use Waters of the Des Plaines River System. Sixty-two water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 18 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- turbidity, organic nitrogen, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, phenols, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, chlorophyll *a*, total barium, total boron, total iron, total manganese, soluble barium, soluble boron, and soluble zinc.

Ten parameters had significantly higher mean concentrations upstream than downstream. These parameters were:

- turbidity, organic nitrogen, total suspended solids, volatile suspended solids, phenols, chlorophyll *a*, total barium, total iron, total manganese, and soluble barium.

The remaining eight parameters had significantly higher mean concentrations downstream than upstream. These parameters were:

- nitrite plus nitrate nitrogen, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, total boron, soluble boron, and soluble zinc.

Out of the 18 parameters listed above, 7 parameters have IPCB General Use or Human Health water quality limits. These parameters are:

- phenols, weak acid dissociable cyanide, fluoride, total barium, total boron, total manganese, and soluble zinc.

All seven of the parameters listed above were in total compliance at both locations.

James C. Kirie WRP. Both the upstream and downstream sampling locations (77 and 78, respectively) of James C. Kirie WRP are located in the General Use Waters of the Des Plaines River System. Sixty water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 19 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- turbidity, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, phenols, sulfate, total phosphorus, fluoride, chlorophyll *a*, total barium, total boron, total iron, total nickel, total manganese, total zinc, soluble boron, soluble nickel, soluble manganese, and soluble zinc.

Nine parameters had significantly higher mean concentrations upstream than downstream. These parameters were:

- turbidity, total suspended solids, volatile suspended solids, phenols, chlorophyll *a*, total barium, total iron, total manganese, and soluble manganese.

The remaining 10 parameters had significantly higher mean concentrations downstream than upstream. These parameters were:

- nitrite plus nitrate nitrogen, sulfate, total phosphorus, fluoride, total boron, total nickel, total zinc, soluble boron, soluble nickel, and soluble zinc.

Out of the 19 parameters listed above, 8 parameters have IPCB General Use or Human Health water quality limits. These parameters are:

- phenols, sulfate, fluoride, total barium, total boron, total manganese, soluble nickel, and soluble zinc.

All eight of the parameters listed above were in total compliance at both locations.

Hanover Park WRP. Both the upstream and downstream sampling locations (63 and 89, respectively) of Hanover Park WRP are located in the General Use Waters of the Des Plaines River System. No sample at the upstream location of the Hanover Park WRP (Location 63) was taken in 2005, because the water level was too low to obtain a representative sample without being contaminated by sediments. Therefore, no comparison of mean concentrations between upstream and downstream locations was made.

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APPENDIX AI

WATERWAYS DATA MANAGEMENT SYSTEM DESCRIPTION

TABLE AI-1: DIRECTORY OF WATER QUALITY PARAMETERS
ASSAYED IN 2005

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
BOD ₅	Biochemical Oxygen Demand	mg/L	None	None
CBOD ₅	Carbonaceous Biochemical Oxygen Demand	mg/L	None	None
DO	Dissolved Oxygen	mg/L	5	(3, 4) ¹
Temp	Temperature	°C	16 (32 Apr - Nov)	37.8
pH	pH		6.5 - 9	6 - 9
Alk	Alkalinity (Total)	mg/L	None	None
Cl	Chloride	mg/L	500	None
Turb	Turbidity	NTU	None	None
TKN	Total Kjeldahl Nitrogen	mg/L	None	None
NH ₄ -N	Ammonium Nitrogen	mg/L	(15) ²	None
NH ₃ -N	Un-ionized Ammonia	mg/L	None	0.1
ORG-N	Organic Nitrogen	mg/L	None	None
NO ₂ + NO ₃	Nitrite Plus Nitrate Nitrogen	mg/L	None	None
TS	Total Solids	mg/L	None	None
TSS	Total Suspended Solids	mg/L	None	None
VSS	Volatile Suspended Solids	mg/L	None	None
TDS	Total Dissolved Solids	mg/L	1000	1500
Phenol	Phenols	µg/L	100	300
SO ₄	Sulfate	mg/L	500	None
FOG	Fats, Oils, and Greases	mg/L	None	15
TP	Total Phosphorus	mg/L	None	None
CN	Total Cyanide	mg/L	None	0.1
WAD-CN	Weak Acid Dissociable Cyanide	mg/L	0.022	None
F	Fluoride	mg/L	1.4	15
TOC	Total Organic Carbon	mg/L	None	None
FC	Fecal Coliform	cfu/100mL	400	None
EColi	Escherichia Coli	cfu/100mL	None	None
Ca	Total Calcium	mg/L	None	None
Mg	Total Magnesium	mg/L	None	None
Hard	Hardness	mg/L	None	None
Alpha	Gross Alpha Radioactivity	pCi/L	None	None
Beta	Gross Beta Radioactivity	pCi/L	100	None
Chlrphl	Chlorophyll <i>a</i>	µg/L	None	None

TABLE AI-1 (Continued): DIRECTORY OF WATER QUALITY PARAMETERS
ASSAYED IN 2005

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
Bzn	Benzene**	$\mu\text{g/L}$	310	None
Bzn	Benzene	$\mu\text{g/L}$	4200	None
Ebnzn	Ethylbenzene	$\mu\text{g/L}$	150	None
Toln	Toluene	$\mu\text{g/L}$	2000	None
Xyln	Xylene	$\mu\text{g/L}$	920	None
Ag	Total Silver	mg/L	0.005	1.1
As	Total Arsenic	mg/L	None	1
Ba	Total Barium	mg/L	5	5
B	Total Boron	mg/L	1	None
Cd	Total Cadmium	mg/L	None	0.15
Cu	Total Copper	mg/L	None	1
Cr	Total Chromium	mg/L	None	None
Cr ⁺⁶	Total Hexavalent Chromium	$\mu\text{g/L}$	16	300
Fe	Total Iron	mg/L	None	2
Pb	Total Lead	mg/L	None	0.1
Ni	Total Nickel	mg/L	None	1
Mn	Total Manganese	mg/L	1	1
Hg	Total Mercury**	$\mu\text{g/L}$	0.012	None
Hg	Total Mercury	$\mu\text{g/L}$	None	0.5
Zn	Total Zinc	mg/L	None	1
Se	Total Selenium	mg/L	1	1
Sol.Ca	Soluble Calcium	mg/L	None	None
Sol.Mg	Soluble Magnesium	mg/L	None	None
Sol.Ag	Soluble Silver	mg/L	None	None
Sol.As	Soluble Arsenic	mg/L	0.36	None
Sol.Ba	Soluble Barium	mg/L	None	None
Sol.B	Soluble Boron	mg/L	None	None
Sol.Cd	Soluble Cadmium	mg/L	(0.029) ³	None
Sol.Cu	Soluble Copper	mg/L	(0.046) ⁴	None
Sol.Cr	Soluble Chromium	mg/L	(1.299) ⁵	None
Sol.Fe	Soluble Iron	mg/L	1	0.5
Sol.Pb	Soluble Lead	mg/L	(0.233) ⁶	None
Sol.Ni	Soluble Nickel	mg/L	(0.201) ⁷	None

TABLE AI-1 (Continued): DIRECTORY OF WATER QUALITY PARAMETERS
ASSAYED IN 2005

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
Sol.Mn	Soluble Manganese	mg/L	None	None
Sol.Hg	Soluble Mercury	μg/L	2.21	None
Sol.Zn	Soluble Zinc	mg/L	(0.291) ⁸	None
Sol.Se	Soluble Selenium	mg/L	None	None

*As per Illinois Pollution Control Board, except as modified (see text)

**As Human Health Standard

¹Standard is 3 mg/L for locations (43,58, and 59) and 4 mg/L for other Secondary Contact locations

²Based on $\min\left(\frac{0.411}{1+10^{7.204+\text{pH}}} + \frac{58.4}{1+10^{\text{pH}-7.204}}, 15\right)$

³Based on $\min\left(e^{-2.98+1.128 \ln(\text{Hard})} * (1.138672 - 0.041838 \ln(\text{Hard}))/1000, 0.005\right)$

⁴Based on $0.00090 e^{-1.464+0.9422 \ln(\text{Hard})}$

⁵Based on $0.000316 e^{3.688+0.819 \ln(\text{Hard})}$

⁶Based on $e^{-1.301+1.1.273 \ln(\text{Hard})} * (1.46203 - 0.145712 \ln(\text{Hard}))/1000$

⁷Based on $0.000998 e^{0.5173+0.846 \ln(\text{Hard})}$

⁸Based on $0.000978 e^{0.9035+0.8473 \ln(\text{Hard})}$

TABLE AI-2: DIRECTORY OF SAMPLING STATIONS
IN WATER QUALITY NETWORK

No.	Sampling Station	Type Sample	Water Use ¹	River System
1	Wilmette Harbor*	Auto	GEN	Chicago
2	Outer Drive Bridge*	Auto	GEN	Chicago
3	South District Water Filtration Plant*	Auto	GEN	Chicago
4	O'Brien Locks*	Auto	SEC	Chicago
5	Ohio Street*	Auto	SEC	Chicago
6	Willow Springs Road*	Auto	SEC	Chicago
7	Highway 83 & Archer*	Auto	SEC	Chicago
9	North Side WRP, Outfall*	Auto	EFF	Chicago
10	Stickney(Southwest) WRP, Outfall*	Auto	EFF	Chicago
11	Calumet WRP, Outfall*	Auto	EFF	Calumet
12	Lake-Cook Road, Buffalo Creek	Grab	GEN	Des Plaines
13	Lake-Cook Road, Des Plaines River	Grab	GEN	Des Plaines
14	Hintz Road, Wheeling Drain Ditch*	Grab	GEN	Des Plaines
15	Palatine Road, Des Plaines River*	Grab	GEN	Des Plaines
16	Central Road, Des Plaines River*	Grab	GEN	Des Plaines
17	Oakton Steet, Des Plaines River	Grab	GEN	Des Plaines
18	Devon Avenue, Salt Creek	Grab	GEN	Des Plaines
19	Belmont Avenue, Des Plaines River	Grab	GEN	Des Plaines
20	Roosevelt Road, Des Plaines River	Grab	GEN	Des Plaines
21	First Avenue, Salt Creek*	Grab	GEN	Des Plaines
22	Ogden Avenue, Des Plaines River	Grab	GEN	Des Plaines
23	Willow Springs Road, Des Plaines River	Grab	GEN	Des Plaines
24	Wolf Road, Salt Creek	Grab	GEN	Des Plaines
25	Grand Avenue, Des Plaines River*	Grab	GEN	Des Plaines
26	Lawrence Avenue, Des Plaines River*	Grab	GEN	Des Plaines
27	York Road, Salt Creek*	Grab	GEN	Des Plaines
28	Highway 83 & Des Plaines River*	Grab	GEN	Des Plaines
29	Stephen Street, Des Plaines River	Grab	GEN	Des Plaines
30	Lake-Cook Road, West Fork North Branch*	Grab	GEN	Chicago
31	Lake-Cook Road, Middle Fork North Branch	Grab	GEN	Chicago
32	Lake-Cook Road, Skokie River	Grab	GEN	Chicago
33	East Lake Avenue, Middle Fork North Branch*	Grab	GEN	Chicago
34	Dempster Street, North Branch Chicago River	Grab	GEN	Chicago
35	Central Street, North Shore Channel	Grab	GEN	Chicago

TABLE AI-2 (Continued): DIRECTORY OF SAMPLING STATIONS
IN WATER QUALITY NETWORK

No.	Sampling Station	Type Sample	Water Use ¹	River System
36	Touhy Avenue, North Shore Channel	Grab	SEC	Chicago
37	Wilson Avenue, North Branch Chicago River	Grab	SEC	Chicago
38	Ohio Street, North Branch Chicago River*	Grab	SEC	Chicago
39	Madison Street, South Branch Chicago River	Grab	SEC	Chicago
40	Damen Avenue, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
41	Harlem Avenue, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
42	Route 83, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
43	Route 83, Calumet Sag Channel	Grab	SEC	Calumet
44	Howard Street, North Shore Channel*	Grab	SEC	Chicago
45	Lawrence Avenue, North Branch Chicago River*	Grab	SEC	Chicago
46	Grand Avenue, North Branch Chicago River	Grab	SEC	Chicago
47	Randolph Street, South Branch Chicago River*	Grab	SEC	Chicago
48	Stephen Street, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
49	Ewing Avenue, Calumet River	Grab	GEN	Calumet
50	Burnham Avenue, Wolf Lake	Grab	GEN	Calumet
51	IHB Rail Road Bridge, Grand Calumet River*	Grab	SEC	Calumet
52	Wentworth Avenue, Little Calumet River	Grab	GEN	Calumet
53	Wentworth Avenue, North Creek*	Grab	GEN	Calumet
54	Joe Orr Road, Thorn Creek	Grab	GEN	Calumet
55	130th Street, Calumet River	Grab	GEN	Calumet
56	Indiana Avenue, Little Calumet River	Grab	SEC	Calumet
57	Ashland Avenue, Little Calumet River	Grab	GEN	Calumet
58	Ashland Avenue, Calumet Sag Channel	Grab	SEC	Calumet
59	Cicero Avenue, Calumet Sag Channel	Grab	SEC	Calumet
60	Crawford Avenue, Calumet Sag Channel*	Grab	SEC	Calumet
61	Ashland Avenue, South Branch Chicago River*	Grab	SEC	Chicago
62	Stephen Street, Chicago Sanitary & Ship Canal*	Grab	SEC	Chicago
63	Longmeadow Lane, West Branch DuPage River*	Grab	GEN	Des Plaines
64	Lake Street, West Branch DuPage River	Grab	GEN	Des Plaines
65	Oltendorf Road, Poplar Creek*	Grab	GEN	Des Plaines
66	Bartlett Road, Poplar Creek*	Grab	GEN	Des Plaines
67	171st Street, Union Drainage Ditch*	Grab	GEN	Calumet
68	Park Street, Union Drainage Ditch*	Grab	GEN	Calumet
69	Lincoln Highway, Deer Creek*	Grab	GEN	Calumet

TABLE AI-2 (Continued): DIRECTORY OF SAMPLING STATIONS
IN WATER QUALITY NETWORK

No.	Sampling Station	Type Sample	Water Use ¹	River System
70	Joe Orr Road, Deer Creek*	Grab	GEN	Calumet
71	Route 83, Chicago Sanitary & Ship Canal*	Grab	SEC	Chicago
72	Stephen Street, Chicago Sanitary & Ship Canal*	Grab	SEC	Chicago
73	Diversey Parkway, North Branch Chicago River	Grab	SEC	Chicago
74	Lake Shore Drive, Chicago River	Grab	GEN	Chicago
75	Cicero Avenue, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
76	Halsted Street, Little Calumet River	Grab	SEC	Calumet
77	Elmhurst Road, Higgins Creek	Grab	GEN	Des Plaines
78	Wille Road, Higgins Creek	Grab	GEN	Des Plaines
79	Higgins Road, Salt Creek	Grab	GEN	Des Plaines
80	Arlington Heights Road, Salt Creek	Grab	GEN	Des Plaines
81	Lockport Forebay*	Auto	SEC	Chicago
82	Lockport Trebler, Chicago Sanitary & Ship Canal*	Auto	SEC	Chicago
83	Lockport Solenoid*	Auto	SEC	Chicago
84	Lockport 16th Street Bridge*	Grab	SEC	Chicago
85	Demptser Street, North Shore Channel*	Grab	SEC	Chicago
86	Burnham Avenue, Grand Calumet River	Grab	SEC	Calumet
89	Walnut Lane, West Branch DuPage River	Grab	GEN	Des Plaines
90	Route 19, Poplar Creek	Grab	GEN	Des Plaines
91	Material Service Road, Des Plaines River	Grab	GEN	Des Plaines
92	Lockport Forebay, Chicago Sanitary & Ship Canal	Auto	SEC	Chicago
93	Jefferson Street, Joliet, Des Plaines River ²	Grab	SEC	Des Plaines
94	Empress Casino, Des Plaines River ²	Grab	SEC	Des Plaines
95	I-55, Des Plaines River ²	Grab	SEC	Des Plaines
96	Albany Avenue, North Branch Chicago River	Grab	GEN	Chicago
97	170th Street, Thorn Creek	Grab	GEN	Calumet
98	Halsted Street, South Branch Chicago River*	Grab	SEC	Chicago
99	Archer Avenue, South Fork South Branch Chicago River	Grab	SEC	Chicago
100	Wells Street, Chicago River	Grab	GEN	Chicago
101	Foster Avenue, North Shore Channel	Grab	SEC	Chicago
102	Oakton Street, North Shore Channel	Grab	GEN	Chicago
103	Golf Road, West Fork North Branch Chicago River	Grab	GEN	Chicago
104	Glenview Road, North Branch Chicago River	Grab	GEN	Chicago
105	Frontage Road, Skokie River	Grab	GEN	Chicago

TABLE AI-2 (Continued): DIRECTORY OF SAMPLING STATIONS
IN WATER QUALITY NETWORK

No.	Sampling Station	Type Sample	Water Use ¹	River System
106	Dundee Road, West Fork North Branch Chicago River	Grab	GEN	Chicago
107	Western Avenue, Chicago Sanitary & Ship Canal*	Grab	SEC	Chicago
108	Loomis Street, South Branch Chicago River	Grab	SEC	Chicago
109	Brookfield Avenue, Salt Creek	Grab	GEN	Des Plaines
110	Springinsguth Road, West Branch DuPage River	Grab	GEN	Des Plaines

¹GEN = General Use, SEC = Secondary Contact, EFF = Effluent

²Kept for Special Studies Separately

*Excluded in 2005 Sampling

APPENDIX AII

WATER QUALITY RESULTS
ANNUAL MEAN, STANDARD COMPLIANCE VIOLATION HISTORY,
AND MEAN HISTORY

TABLE AII-1: WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	BOD ₅ mg/L	CBOD ₅ mg/L	DO mg/L	Temp °C
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	10.30	12.4
103 Golf Road, West Fork North Branch Chicago River	ND	ND	7.38	15.2
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	5.42	16.1
104 Glenview Road, North Branch Chicago River	ND	ND	8.12	15.1
32 Lake-Cook Road, Skokie River	ND	ND	7.75	17.1
105 Frontage Road, Skokie River	ND	ND	8.79	14.4
34 Dempster Street, North Branch Chicago River	ND	ND	7.16	16.7
96 Albany Avenue, North Branch Chicago River	4.00	3.000	8.63	15.5
35 Central Street, North Shore Channel	ND	ND	7.50	17.9
102 Oakton Street, North Shore Channel	8.00	0.000	7.95	16.1
36 Touhy Avenue, North Shore Channel	11.00	4.000	7.98	16.4
101 Foster Avenue, North Shore Channel	8.00	2.000	7.30	16.8
37 Wilson Avenue, North Branch Chicago River	10.00	4.000	7.03	17.5
73 Diversey Parkway, North Branch Chicago River	6.00	2.000	6.44	17.4
46 Grand Avenue, North Branch Chicago River	2.00	1.500	6.30	17.5
74 Lake Shore Drive, Chicago River	ND	ND	9.08	15.2
100 Wells Street, Chicago River	3.00	3.000	8.96	13.4
39 Madison Street, South Branch Chicago River	4.00	2.000	7.85	13.3
108 Loomis Street, South Branch Chicago River	3.00	0.000	7.78	15.5
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	6.65	15.8
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.00	2.000	7.59	15.5
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.00	3.000	6.11	20.0
41 Harlem Avenue, Chicago Sanitary & Ship Canal	5.00	3.000	7.29	17.3
42 Route 83, Chicago Sanitary & Ship Canal	0.00	2.000	5.90	17.7
48 Stephen Street, Chicago Sanitary & Ship Canal	3.00	0.000	6.25	16.1
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	3.14	0.714	5.86	19.3
Calumet River System				
49 Ewing Avenue, Calumet River	ND	ND	9.99	16.2
50 Burnham Avenue, Wolf Lake	ND	ND	9.25	14.5
55 130th Street, Calumet River	ND	ND	9.26	15.8
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	4.80	16.2
56 Indiana Avenue, Little Calumet River	ND	ND	8.83	16.0
76 Halsted Street, Little Calumet River	4.00	4.000	6.98	16.4
52 Wentworth Avenue, Little Calumet River	ND	ND	6.45	14.5
54 Joe Orr Road, Thorn Creek	ND	ND	7.65	15.0
97 170th Street, Thorn Creek	ND	ND	7.85	13.4
57 Ashland Avenue, Little Calumet River	ND	ND	6.35	15.7
58 Ashland Avenue, Calumet Sag Channel	3.00	3.000	7.23	15.8
59 Cicero Avenue, Calumet Sag Channel	3.00	4.000	6.56	15.0
43 Route 83, Calumet Sag Channel	ND	ND	7.38	16.7
Des Plaines River System				
90 Route 19, Poplar Creek	ND	ND	8.47	15.1
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	7.78	16.9
64 Lake Street, West Branch DuPage River	ND	ND	8.61	16.5
79 Higgins Road, Salt Creek	ND	ND	6.24	19.2
80 Arlington Heights Road, Salt Creek	ND	ND	8.48	16.4
18 Devon Avenue, Salt Creek	ND	ND	9.04	15.3
24 Wolf Road, Salt Creek	ND	ND	8.61	14.8
109 Brookfield Avenue, Salt Creek	ND	ND	7.81	14.9
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	9.15	12.3
78 Wille Road, Higgins Creek	ND	ND	8.88	17.1
12 Lake-Cook Road, Buffalo Creek	ND	ND	9.79	13.5
13 Lake-Cook Road, Des Plaines River	ND	ND	8.59	15.8
17 Oakton Steet, Des Plaines River	ND	ND	8.39	15.9
19 Belmont Avenue, Des Plaines River	ND	ND	7.55	15.3
20 Roosevelt Road, Des Plaines River	ND	ND	7.57	15.4
22 Ogden Avenue, Des Plaines River	ND	ND	9.13	15.1
23 Willow Springs Road, Des Plaines River	ND	ND	9.08	14.7
29 Stephen Street, Des Plaines River	ND	ND	9.91	15.1
91 Material Service Road, Des Plaines River	ND	ND	10.31	15.0
110 Springinguth Road, West Branch DuPage River	ND	ND	6.80	15.1

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	pH	Alk mg/L	Cl mg/L	Turb NTU
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	7.53	152	456	30.1
103 Golf Road, West Fork North Branch Chicago River	7.42	172	501	25.6
31 Lake-Cook Road, Middle Fork North Branch	7.26	199	318	16.7
104 Glenview Road, North Branch Chicago River	7.22	156	258	15.2
32 Lake-Cook Road, Skokie River	7.19	183	310	16.8
105 Frontage Road, Skokie River	7.19	154	236	13.4
34 Dempster Street, North Branch Chicago River	7.45	164	337	18.9
96 Albany Avenue, North Branch Chicago River	7.30	167	346	16.0
35 Central Street, North Shore Channel	7.65	115	35	5.9
102 Oakton Street, North Shore Channel	7.35	126	135	12.2
36 Touhy Avenue, North Shore Channel	7.14	136	150	6.5
101 Foster Avenue, North Shore Channel	7.18	135	165	7.0
37 Wilson Avenue, North Branch Chicago River	7.32	138	209	9.5
73 Diversey Parkway, North Branch Chicago River	7.23	135	196	10.0
46 Grand Avenue, North Branch Chicago River	7.21	144	186	11.3
74 Lake Shore Drive, Chicago River	7.52	120	62	3.3
100 Wells Street, Chicago River	7.44	123	109	4.7
39 Madison Street, South Branch Chicago River	7.41	137	156	9.1
108 Loomis Street, South Branch Chicago River	7.44	142	158	9.6
99 Archer Avenue, South Fork South Branch Chicago River	7.27	138	150	8.7
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.39	138	153	10.4
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.23	140	156	11.6
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.11	126	162	6.4
42 Route 83, Chicago Sanitary & Ship Canal	7.08	138	170	5.8
48 Stephen Street, Chicago Sanitary & Ship Canal	7.03	142	164	11.5
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.20	138	181	10.6
Calumet River System				
49 Ewing Avenue, Calumet River	7.48	109	38	5.6
50 Burnham Avenue, Wolf Lake	7.65	109	59	5.3
55 130th Street, Calumet River	7.64	112	75	5.9
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	7.30	170	137	25.3
56 Indiana Avenue, Little Calumet River	7.06	125	82	24.8
76 Halsted Street, Little Calumet River	7.11	153	174	10.2
52 Wentworth Avenue, Little Calumet River	7.16	175	140	32.2
54 Joe Orr Road, Thorn Creek	7.10	152	212	63.6
97 170th Street, Thorn Creek	6.96	172	228	46.2
57 Ashland Avenue, Little Calumet River	7.07	168	205	42.5
58 Ashland Avenue, Calumet Sag Channel	6.91	154	180	13.4
59 Cicero Avenue, Calumet Sag Channel	7.04	150	171	14.2
43 Route 83, Calumet Sag Channel	7.25	151	144	14.2
Des Plaines River System				
90 Route 19, Poplar Creek	7.70	188	278	14.7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	7.40	150	181	7.6
64 Lake Street, West Branch DuPage River	7.57	133	211	26.3
79 Higgins Road, Salt Creek	7.39	142	409	42.9
80 Arlington Heights Road, Salt Creek	7.45	136	323	6.5
18 Devon Avenue, Salt Creek	7.44	135	320	10.1
24 Wolf Road, Salt Creek	7.30	134	261	20.1
109 Brookfield Avenue, Salt Creek	7.32	133	258	23.3
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	7.39	120	478	29.3
78 Wille Road, Higgins Creek	7.37	150	220	3.9
12 Lake-Cook Road, Buffalo Creek	7.51	197	373	20.6
13 Lake-Cook Road, Des Plaines River	7.44	179	221	19.4
17 Oakton Steet, Des Plaines River	7.44	171	251	15.1
19 Belmont Avenue, Des Plaines River	7.45	167	230	17.6
20 Roosevelt Road, Des Plaines River	7.49	166	260	17.5
22 Ogden Avenue, Des Plaines River	7.49	151	255	23.8
23 Willow Springs Road, Des Plaines River	7.62	154	268	20.9
29 Stephen Street, Des Plaines River	7.55	159	255	23.0
91 Material Service Road, Des Plaines River	7.74	163	249	25.8
110 Springinsguth Road, West Branch DuPage River	7.43	179	355	25.2

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	TKN mg/L	NH ₄ -N mg/L	NH ₃ -N* mg/L	ORG-N mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1.31	0.228	0.002	1.08
103 Golf Road, West Fork North Branch Chicago River	1.41	0.265	0.003	1.15
31 Lake-Cook Road, Middle Fork North Branch	1.36	0.190	0.002	1.17
104 Glenview Road, North Branch Chicago River	1.22	0.144	0.002	1.07
32 Lake-Cook Road, Skokie River	1.67	0.320	0.011	1.35
105 Frontage Road, Skokie River	1.25	0.152	0.001	1.10
34 Dempster Street, North Branch Chicago River	1.22	0.154	0.002	1.06
96 Albany Avenue, North Branch Chicago River	1.31	0.153	0.002	1.16
35 Central Street, North Shore Channel	0.39	0.071	0.002	0.32
102 Oakton Street, North Shore Channel	1.54	0.773	0.005	0.77
36 Touhy Avenue, North Shore Channel	3.08	1.718	0.012	1.37
101 Foster Avenue, North Shore Channel	3.53	2.104	0.019	1.43
37 Wilson Avenue, North Branch Chicago River	3.19	1.881	0.021	1.31
73 Diversey Parkway, North Branch Chicago River	2.25	1.091	0.009	1.16
46 Grand Avenue, North Branch Chicago River	2.82	1.617	0.012	1.20
74 Lake Shore Drive, Chicago River	0.73	0.400	0.004	0.34
100 Wells Street, Chicago River	1.15	0.583	0.005	0.57
39 Madison Street, South Branch Chicago River	2.32	1.361	0.014	0.95
108 Loomis Street, South Branch Chicago River	2.33	1.360	0.017	0.97
99 Archer Avenue, South Fork South Branch Chicago River	2.46	1.320	0.009	1.14
40 Damen Avenue, Chicago Sanitary & Ship Canal	2.31	1.277	0.011	1.03
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	2.10	1.175	0.023	0.92
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.93	0.941	0.007	0.99
42 Route 83, Chicago Sanitary & Ship Canal	1.81	0.816	0.006	0.99
48 Stephen Street, Chicago Sanitary & Ship Canal	1.76	0.797	0.003	0.96
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.67	0.654	0.007	1.02
Calumet River System				
49 Ewing Avenue, Calumet River	0.25	0.109	0.001	0.15
50 Burnham Avenue, Wolf Lake	0.73	0.183	0.003	0.55
55 130th Street, Calumet River	0.70	0.235	0.004	0.47
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	4.31	1.659	0.015	2.65
56 Indiana Avenue, Little Calumet River	0.84	0.199	0.001	0.64
76 Halsted Street, Little Calumet River	1.26	0.284	0.003	0.98
52 Wentworth Avenue, Little Calumet River	1.61	0.365	0.002	1.25
54 Joe Orr Road, Thorn Creek	1.55	0.240	0.001	1.31
97 170th Street, Thorn Creek	1.34	0.315	0.001	1.02
57 Ashland Avenue, Little Calumet River	1.58	0.355	0.002	1.23
58 Ashland Avenue, Calumet Sag Channel	1.30	0.320	0.001	0.98
59 Cicero Avenue, Calumet Sag Channel	1.41	0.360	0.002	1.05
43 Route 83, Calumet Sag Channel	1.25	0.321	0.002	0.93
Des Plaines River System				
90 Route 19, Poplar Creek	0.94	0.108	0.002	0.83
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	1.93	0.273	0.003	1.66
64 Lake Street, West Branch DuPage River	2.09	0.482	0.005	1.61
79 Higgins Road, Salt Creek	1.41	0.100	0.002	1.31
80 Arlington Heights Road, Salt Creek	1.16	0.157	0.006	1.01
18 Devon Avenue, Salt Creek	1.42	0.193	0.006	1.22
24 Wolf Road, Salt Creek	1.25	0.163	0.002	1.09
109 Brookfield Avenue, Salt Creek	1.23	0.166	0.002	1.07
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1.29	0.123	0.003	1.17
78 Wille Road, Higgins Creek	1.51	0.269	0.003	1.24
12 Lake-Cook Road, Buffalo Creek	1.36	0.144	0.001	1.21
13 Lake-Cook Road, Des Plaines River	1.34	0.190	0.003	1.15
17 Oakton Steet, Des Plaines River	1.31	0.145	0.002	1.16
19 Belmont Avenue, Des Plaines River	1.28	0.143	0.002	1.13
20 Roosevelt Road, Des Plaines River	1.20	0.143	0.001	1.06
22 Ogden Avenue, Des Plaines River	1.25	0.161	0.002	1.09
23 Willow Springs Road, Des Plaines River	1.23	0.124	0.003	1.11
29 Stephen Street, Des Plaines River	1.29	0.111	0.002	1.18
91 Material Service Road, Des Plaines River	1.29	0.122	0.003	1.17
110 Springinsguth Road, West Branch DuPage River	2.49	0.454	0.005	2.04

ND = No Data

*Un-ionized Ammonia

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	NO ₂ + NO ₃ mg/L	TS mg/L	TSS mg/L	VSS mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	7.14	1050	31.5	6.75
103 Golf Road, West Fork North Branch Chicago River	3.88	1232	29.7	7.40
31 Lake-Cook Road, Middle Fork North Branch	0.24	888	24.2	5.10
104 Glenview Road, North Branch Chicago River	5.93	756	18.8	5.50
32 Lake-Cook Road, Skokie River	3.41	858	21.6	6.00
105 Frontage Road, Skokie River	7.00	696	18.4	5.75
34 Dempster Street, North Branch Chicago River	5.06	885	25.3	6.55
96 Albany Avenue, North Branch Chicago River	4.64	934	16.8	5.55
35 Central Street, North Shore Channel	0.23	244	8.5	3.38
102 Oakton Street, North Shore Channel	2.44	423	11.6	3.58
36 Touhy Avenue, North Shore Channel	5.24	511	10.9	4.92
101 Foster Avenue, North Shore Channel	5.97	546	12.2	4.23
37 Wilson Avenue, North Branch Chicago River	6.29	613	15.0	4.75
73 Diversey Parkway, North Branch Chicago River	6.04	570	13.2	3.50
46 Grand Avenue, North Branch Chicago River	5.77	597	14.5	3.92
74 Lake Shore Drive, Chicago River	1.07	274	5.3	1.40
100 Wells Street, Chicago River	2.22	369	4.5	1.42
39 Madison Street, South Branch Chicago River	4.37	483	8.7	1.50
108 Loomis Street, South Branch Chicago River	4.35	476	12.6	2.60
99 Archer Avenue, South Fork South Branch Chicago River	4.05	474	12.5	4.36
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.22	477	12.7	3.00
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.06	495	13.0	2.50
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.67	530	9.6	3.50
42 Route 83, Chicago Sanitary & Ship Canal	5.97	578	7.5	2.09
48 Stephen Street, Chicago Sanitary & Ship Canal	5.51	591	15.0	2.91
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6.01	618	14.5	3.21
Calumet River System				
49 Ewing Avenue, Calumet River	0.37	223	6.7	3.09
50 Burnham Avenue, Wolf Lake	0.13	279	5.3	2.50
55 130th Street, Calumet River	0.60	300	6.5	2.27
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	5.19	665	49.9	20.90
56 Indiana Avenue, Little Calumet River	1.37	370	25.0	4.67
76 Halsted Street, Little Calumet River	5.33	559	11.3	3.58
52 Wentworth Avenue, Little Calumet River	4.27	612	37.9	7.55
54 Joe Orr Road, Thorn Creek	6.39	1293	115.4	19.13
97 170th Street, Thorn Creek	5.97	1252	55.4	7.64
57 Ashland Avenue, Little Calumet River	3.67	925	45.7	9.00
58 Ashland Avenue, Calumet Sag Channel	5.17	632	15.0	2.58
59 Cicero Avenue, Calumet Sag Channel	5.22	625	14.3	3.00
43 Route 83, Calumet Sag Channel	5.35	626	15.5	4.55
Des Plaines River System				
90 Route 19, Poplar Creek	0.39	766	15.9	4.91
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	8.85	619	12.3	5.58
64 Lake Street, West Branch DuPage River	8.64	701	38.5	10.08
79 Higgins Road, Salt Creek	0.27	1075	41.4	11.11
80 Arlington Heights Road, Salt Creek	7.98	733	9.8	4.75
18 Devon Avenue, Salt Creek	8.19	866	14.2	4.50
24 Wolf Road, Salt Creek	8.12	823	28.9	6.58
109 Brookfield Avenue, Salt Creek	6.98	809	25.1	5.17
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.44	1110	29.3	9.50
78 Wille Road, Higgins Creek	9.44	716	3.4	1.17
12 Lake-Cook Road, Buffalo Creek	0.36	1018	23.9	6.86
13 Lake-Cook Road, Des Plaines River	7.69	742	24.0	5.75
17 Oakton Steet, Des Plaines River	6.43	779	17.9	6.08
19 Belmont Avenue, Des Plaines River	5.93	783	23.2	5.83
20 Roosevelt Road, Des Plaines River	5.49	775	23.8	7.00
22 Ogden Avenue, Des Plaines River	5.79	778	30.6	7.00
23 Willow Springs Road, Des Plaines River	5.69	773	22.3	6.17
29 Stephen Street, Des Plaines River	6.04	772	29.8	7.75
91 Material Service Road, Des Plaines River	6.26	805	35.0	8.92
110 Springinsguth Road, West Branch DuPage River	0.69	1077	30.5	13.55

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	TDS mg/L	Phenol μg/L	SO ₄ mg/L	FOG mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1018	6.8	63.0	ND
103 Golf Road, West Fork North Branch Chicago River	1202	9.9	75.4	ND
31 Lake-Cook Road, Middle Fork North Branch	864	11.4	86.3	ND
104 Glenview Road, North Branch Chicago River	737	6.3	65.1	ND
32 Lake-Cook Road, Skokie River	836	8.0	65.4	ND
105 Frontage Road, Skokie River	677	5.6	63.4	ND
34 Dempster Street, North Branch Chicago River	860	8.4	68.6	ND
96 Albany Avenue, North Branch Chicago River	917	8.3	68.3	ND
35 Central Street, North Shore Channel	236	4.3	26.8	0.00
102 Oakton Street, North Shore Channel	412	7.1	40.9	0.73
36 Touhy Avenue, North Shore Channel	500	9.1	46.6	2.14
101 Foster Avenue, North Shore Channel	534	9.8	59.6	2.02
37 Wilson Avenue, North Branch Chicago River	598	8.5	50.8	2.45
73 Diversey Parkway, North Branch Chicago River	557	10.8	50.9	0.86
46 Grand Avenue, North Branch Chicago River	582	9.8	54.1	1.85
74 Lake Shore Drive, Chicago River	269	4.3	29.7	ND
100 Wells Street, Chicago River	364	4.8	35.4	ND
39 Madison Street, South Branch Chicago River	474	7.6	47.6	0.68
108 Loomis Street, South Branch Chicago River	463	7.7	49.8	0.80
99 Archer Avenue, South Fork South Branch Chicago River	461	8.7	56.0	0.55
40 Damen Avenue, Chicago Sanitary & Ship Canal	464	8.3	49.5	0.73
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	482	6.8	50.1	1.24
41 Harlem Avenue, Chicago Sanitary & Ship Canal	520	6.6	70.7	0.65
42 Route 83, Chicago Sanitary & Ship Canal	571	9.5	74.2	0.93
48 Stephen Street, Chicago Sanitary & Ship Canal	576	9.2	85.6	1.18
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	604	8.8	88.1	1.52
Calumet River System				
49 Ewing Avenue, Calumet River	217	2.0	27.0	ND
50 Burnham Avenue, Wolf Lake	273	5.8	41.0	ND
55 130th Street, Calumet River	293	4.9	55.2	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	615	16.1	176.9	1.77
56 Indiana Avenue, Little Calumet River	345	5.0	64.1	0.00
76 Halsted Street, Little Calumet River	548	9.9	91.3	0.43
52 Wentworth Avenue, Little Calumet River	574	14.4	116.2	ND
54 Joe Orr Road, Thorn Creek	1178	13.3	494.6	ND
97 170th Street, Thorn Creek	1196	9.0	465.3	ND
57 Ashland Avenue, Little Calumet River	879	10.2	289.4	ND
58 Ashland Avenue, Calumet Sag Channel	617	9.1	118.2	0.58
59 Cicero Avenue, Calumet Sag Channel	611	10.5	120.4	0.78
43 Route 83, Calumet Sag Channel	610	10.0	130.0	0.79
Des Plaines River System				
90 Route 19, Poplar Creek	750	10.4	54.6	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	607	9.5	68.1	ND
64 Lake Street, West Branch DuPage River	663	8.2	71.4	ND
79 Higgins Road, Salt Creek	1034	10.6	79.4	ND
80 Arlington Heights Road, Salt Creek	723	6.0	82.9	ND
18 Devon Avenue, Salt Creek	851	5.5	83.2	ND
24 Wolf Road, Salt Creek	794	5.8	92.2	ND
109 Brookfield Avenue, Salt Creek	784	8.6	88.4	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1081	11.3	46.7	ND
78 Wille Road, Higgins Creek	713	8.1	103.6	ND
12 Lake-Cook Road, Buffalo Creek	994	6.1	108.4	ND
13 Lake-Cook Road, Des Plaines River	718	6.2	84.7	ND
17 Oakton Steet, Des Plaines River	761	6.8	112.2	ND
19 Belmont Avenue, Des Plaines River	760	6.5	88.0	ND
20 Roosevelt Road, Des Plaines River	752	8.4	100.1	ND
22 Ogden Avenue, Des Plaines River	747	7.6	85.1	ND
23 Willow Springs Road, Des Plaines River	751	7.6	89.3	ND
29 Stephen Street, Des Plaines River	743	6.1	90.5	ND
91 Material Service Road, Des Plaines River	770	10.5	105.3	ND
110 Springinsguth Road, West Branch DuPage River	1047	15.7	80.5	ND

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	TP mg/L	CN mg/L	WAD-CN mg/L	F mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1.508	0.005	0.002	0.520
103 Golf Road, West Fork North Branch Chicago River	0.834	0.003	0.001	0.469
31 Lake-Cook Road, Middle Fork North Branch	0.210	0.002	0.001	0.375
104 Glenview Road, North Branch Chicago River	1.413	0.002	0.001	0.584
32 Lake-Cook Road, Skokie River	0.863	0.001	0.001	0.483
105 Frontage Road, Skokie River	1.538	0.002	0.001	0.614
34 Dempster Street, North Branch Chicago River	1.199	0.002	0.001	0.539
96 Albany Avenue, North Branch Chicago River	1.155	0.002	0.001	0.516
35 Central Street, North Shore Channel	0.016	0.000	0.000	0.135
102 Oakton Street, North Shore Channel	0.444	0.002	0.001	0.346
36 Touhy Avenue, North Shore Channel	1.241	0.002	0.001	0.675
101 Foster Avenue, North Shore Channel	1.248	0.003	0.001	0.685
37 Wilson Avenue, North Branch Chicago River	1.130	0.003	0.001	0.667
73 Diversey Parkway, North Branch Chicago River	0.870	0.003	0.001	0.667
46 Grand Avenue, North Branch Chicago River	1.121	0.003	0.001	0.720
74 Lake Shore Drive, Chicago River	0.158	0.001	0.000	0.196
100 Wells Street, Chicago River	0.355	0.000	0.001	0.316
39 Madison Street, South Branch Chicago River	0.830	0.002	0.001	0.551
108 Loomis Street, South Branch Chicago River	0.722	0.002	0.001	0.557
99 Archer Avenue, South Fork South Branch Chicago River	0.767	0.002	0.001	0.565
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.755	0.002	0.001	0.555
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.746	0.002	0.001	0.531
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.988	0.003	0.001	0.740
42 Route 83, Chicago Sanitary & Ship Canal	0.725	0.004	0.001	0.756
48 Stephen Street, Chicago Sanitary & Ship Canal	1.168	0.004	0.001	0.701
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.166	0.003	0.001	0.719
Calumet River System				
49 Ewing Avenue, Calumet River	0.025	0.000	0.000	0.128
50 Burnham Avenue, Wolf Lake	0.023	0.000	0.000	0.275
55 130th Street, Calumet River	0.025	0.000	0.001	0.219
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.878	0.005	0.001	0.722
56 Indiana Avenue, Little Calumet River	0.372	0.001	0.001	0.317
76 Halsted Street, Little Calumet River	2.083	0.003	0.001	0.582
52 Wentworth Avenue, Little Calumet River	0.609	0.006	0.002	3.129
54 Joe Orr Road, Thorn Creek	2.113	0.003	0.001	0.474
97 170th Street, Thorn Creek	1.574	0.002	0.001	0.492
57 Ashland Avenue, Little Calumet River	1.061	0.003	0.001	1.182
58 Ashland Avenue, Calumet Sag Channel	2.077	0.003	0.002	0.646
59 Cicero Avenue, Calumet Sag Channel	2.214	0.003	0.001	0.637
43 Route 83, Calumet Sag Channel	2.266	0.002	0.001	0.662
Des Plaines River System				
90 Route 19, Poplar Creek	0.087	0.001	0.001	0.209
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	2.670	0.004	0.002	0.643
64 Lake Street, West Branch DuPage River	2.432	0.004	0.001	0.603
79 Higgins Road, Salt Creek	0.108	0.001	0.000	0.207
80 Arlington Heights Road, Salt Creek	2.022	0.003	0.002	0.553
18 Devon Avenue, Salt Creek	1.981	0.003	0.001	0.498
24 Wolf Road, Salt Creek	1.896	0.002	0.001	0.585
109 Brookfield Avenue, Salt Creek	1.603	0.002	0.001	0.467
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.098	0.003	0.001	0.190
78 Wille Road, Higgins Creek	1.577	0.003	0.001	0.879
12 Lake-Cook Road, Buffalo Creek	0.131	0.002	0.001	0.170
13 Lake-Cook Road, Des Plaines River	1.498	0.002	0.001	0.438
17 Oakton Steet, Des Plaines River	1.256	0.005	0.001	0.468
19 Belmont Avenue, Des Plaines River	1.107	0.009	0.001	0.468
20 Roosevelt Road, Des Plaines River	1.069	0.009	0.001	0.449
22 Ogden Avenue, Des Plaines River	1.224	0.003	0.001	0.440
23 Willow Springs Road, Des Plaines River	1.173	0.002	0.001	0.530
29 Stephen Street, Des Plaines River	1.201	0.002	0.001	0.510
91 Material Service Road, Des Plaines River	1.263	0.001	0.001	0.540
110 Springinsguth Road, West Branch DuPage River	0.325	0.003	0.001	0.251

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	TOC mg/L	FC* cfu/100mL	EColi* cfu/100mL	Ca mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	6.43	1130	ND	70.3
103 Golf Road, West Fork North Branch Chicago River	6.88	727	943	80.8
31 Lake-Cook Road, Middle Fork North Branch	9.02	536	243	65.6
104 Glenview Road, North Branch Chicago River	5.98	649	443	61.5
32 Lake-Cook Road, Skokie River	7.62	649	515	70.5
105 Frontage Road, Skokie River	5.64	160	276	62.0
34 Dempster Street, North Branch Chicago River	6.97	1121	734	70.6
96 Albany Avenue, North Branch Chicago River	6.70	1119	791	69.4
35 Central Street, North Shore Channel	2.49	144	78	39.1
102 Oakton Street, North Shore Channel	4.42	866	974	47.8
36 Touhy Avenue, North Shore Channel	6.41	11481	10341	51.9
101 Foster Avenue, North Shore Channel	6.48	10290	10236	52.9
37 Wilson Avenue, North Branch Chicago River	6.68	9748	9844	55.7
73 Diversey Parkway, North Branch Chicago River	6.26	5799	7280	54.7
46 Grand Avenue, North Branch Chicago River	6.49	1853	2667	57.3
74 Lake Shore Drive, Chicago River	2.54	81	24	40.6
100 Wells Street, Chicago River	3.55	150	119	44.1
39 Madison Street, South Branch Chicago River	5.03	921	461	52.0
108 Loomis Street, South Branch Chicago River	5.52	297	61	54.3
99 Archer Avenue, South Fork South Branch Chicago River	5.44	156	102	51.9
40 Damen Avenue, Chicago Sanitary & Ship Canal	5.52	223	156	52.9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	5.08	129	78	54.5
41 Harlem Avenue, Chicago Sanitary & Ship Canal	5.92	2668	2267	54.2
42 Route 83, Chicago Sanitary & Ship Canal	6.05	1011	1340	56.4
48 Stephen Street, Chicago Sanitary & Ship Canal	6.32	469	796	60.1
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6.01	205	148	59.5
Calumet River System				
49 Ewing Avenue, Calumet River	1.77	12	12	36.5
50 Burnham Avenue, Wolf Lake	5.37	77	183	37.3
55 130th Street, Calumet River	3.39	37	57	43.4
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	9.27	2377	11506	68.3
56 Indiana Avenue, Little Calumet River	3.77	73	63	47.8
76 Halsted Street, Little Calumet River	5.90	2759	2838	63.1
52 Wentworth Avenue, Little Calumet River	8.54	1934	2278	74.4
54 Joe Orr Road, Thorn Creek	8.00	14257	16399	76.0
97 170th Street, Thorn Creek	6.72	2119	2442	83.0
57 Ashland Avenue, Little Calumet River	7.46	3181	5565	75.4
58 Ashland Avenue, Calumet Sag Channel	6.04	2365	2253	65.3
59 Cicero Avenue, Calumet Sag Channel	6.41	857	797	65.4
43 Route 83, Calumet Sag Channel	6.54	57	60	64.7
Des Plaines River System				
90 Route 19, Poplar Creek	7.28	417	775	65.6
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	9.55	2026	2202	58.5
64 Lake Street, West Branch DuPage River	8.65	2144	2216	59.7
79 Higgins Road, Salt Creek	8.42	499	158	65.9
80 Arlington Heights Road, Salt Creek	7.13	389	487	66.4
18 Devon Avenue, Salt Creek	6.86	1014	1202	66.4
24 Wolf Road, Salt Creek	6.73	1034	1077	66.1
109 Brookfield Avenue, Salt Creek	7.30	1480	1289	64.2
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	7.75	1932	890	60.1
78 Wille Road, Higgins Creek	7.94	382	1077	69.2
12 Lake-Cook Road, Buffalo Creek	9.61	359	395	85.5
13 Lake-Cook Road, Des Plaines River	7.48	650	684	66.8
17 Oakton Steet, Des Plaines River	7.38	639	295	66.6
19 Belmont Avenue, Des Plaines River	7.53	523	439	67.1
20 Roosevelt Road, Des Plaines River	7.28	950	480	65.8
22 Ogden Avenue, Des Plaines River	7.00	1247	606	63.7
23 Willow Springs Road, Des Plaines River	7.11	480	169	66.1
29 Stephen Street, Des Plaines River	7.08	248	186	67.4
91 Material Service Road, Des Plaines River	7.19	260	114	68.3
110 Springinsguth Road, West Branch DuPage River	13.02	3763	2794	77.1

ND = No Data

*Geometric Mean

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	Mg mg/L	Hard mg/L	Alpha pCi/L	Beta pCi/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	29.0	295	6.20	11.58
103 Golf Road, West Fork North Branch Chicago River	32.2	335	7.14	11.05
31 Lake-Cook Road, Middle Fork North Branch	33.1	300	5.34	7.15
104 Glenview Road, North Branch Chicago River	27.7	268	5.50	11.27
32 Lake-Cook Road, Skokie River	32.4	310	5.50	8.83
105 Frontage Road, Skokie River	27.2	267	5.03	10.79
34 Dempster Street, North Branch Chicago River	30.7	303	5.91	11.51
96 Albany Avenue, North Branch Chicago River	29.7	296	5.43	10.61
35 Central Street, North Shore Channel	13.3	153	3.30	4.28
102 Oakton Street, North Shore Channel	16.9	189	4.07	6.88
36 Touhy Avenue, North Shore Channel	18.2	205	4.27	7.88
101 Foster Avenue, North Shore Channel	18.6	209	ND	ND
37 Wilson Avenue, North Branch Chicago River	20.1	222	ND	ND
73 Diversey Parkway, North Branch Chicago River	19.5	217	ND	ND
46 Grand Avenue, North Branch Chicago River	20.8	229	ND	ND
74 Lake Shore Drive, Chicago River	14.2	160	3.23	4.29
100 Wells Street, Chicago River	15.3	173	3.61	5.60
39 Madison Street, South Branch Chicago River	18.6	207	ND	ND
108 Loomis Street, South Branch Chicago River	19.8	217	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	18.5	206	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	19.2	211	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	19.7	217	4.17	7.38
41 Harlem Avenue, Chicago Sanitary & Ship Canal	19.6	216	4.27	7.98
42 Route 83, Chicago Sanitary & Ship Canal	20.5	225	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	22.2	241	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	21.8	238	4.53	8.70
Calumet River System				
49 Ewing Avenue, Calumet River	12.1	141	3.03	4.99
50 Burnham Avenue, Wolf Lake	13.7	149	3.33	4.94
55 130th Street, Calumet River	15.0	170	3.50	6.14
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	44.4	354	ND	ND
56 Indiana Avenue, Little Calumet River	17.8	193	3.56	6.63
76 Halsted Street, Little Calumet River	22.3	249	4.66	9.11
52 Wentworth Avenue, Little Calumet River	29.7	308	4.88	10.90
54 Joe Orr Road, Thorn Creek	33.8	329	8.99	14.81
97 170th Street, Thorn Creek	36.6	358	7.46	13.04
57 Ashland Avenue, Little Calumet River	31.6	318	6.19	11.25
58 Ashland Avenue, Calumet Sag Channel	23.8	261	ND	ND
59 Cicero Avenue, Calumet Sag Channel	23.8	261	ND	ND
43 Route 83, Calumet Sag Channel	23.7	259	ND	ND
Des Plaines River System				
90 Route 19, Poplar Creek	29.8	287	5.19	6.75
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	22.0	237	4.77	10.62
64 Lake Street, West Branch DuPage River	22.3	241	5.06	10.94
79 Higgins Road, Salt Creek	29.5	286	6.27	8.35
80 Arlington Heights Road, Salt Creek	25.9	273	5.71	10.26
18 Devon Avenue, Salt Creek	25.7	272	5.85	11.03
24 Wolf Road, Salt Creek	27.3	277	4.81	11.39
109 Brookfield Avenue, Salt Creek	26.7	270	4.76	10.71
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	20.1	233	7.77	11.23
78 Wille Road, Higgins Creek	25.6	278	4.79	15.45
12 Lake-Cook Road, Buffalo Creek	39.7	377	5.32	6.59
13 Lake-Cook Road, Des Plaines River	29.6	289	5.27	11.41
17 Oakton Steet, Des Plaines River	29.9	289	5.30	10.16
19 Belmont Avenue, Des Plaines River	29.1	287	5.46	11.57
20 Roosevelt Road, Des Plaines River	28.7	283	5.02	10.91
22 Ogden Avenue, Des Plaines River	27.5	272	5.07	11.04
23 Willow Springs Road, Des Plaines River	28.8	284	4.93	10.68
29 Stephen Street, Des Plaines River	29.2	288	4.93	10.87
91 Material Service Road, Des Plaines River	29.9	293	5.70	12.34
110 Springinsguth Road, West Branch DuPage River	28.0	308	6.48	8.52

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	Chlrphl $\mu\text{g/L}$	Bznz $\mu\text{g/L}$	Ebnzn $\mu\text{g/L}$	Toln $\mu\text{g/L}$
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	14.6	0.000	0.000	0.000
103 Golf Road, West Fork North Branch Chicago River	29.3	0.000	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	8.0	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	10.1	0.000	0.000	0.000
32 Lake-Cook Road, Skokie River	12.0	0.000	0.000	0.000
105 Frontage Road, Skokie River	15.6	0.000	0.000	0.000
34 Dempster Street, North Branch Chicago River	24.2	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	35.6	0.000	0.000	0.000
35 Central Street, North Shore Channel	3.6	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	8.1	0.000	0.000	0.000
36 Touhy Avenue, North Shore Channel	1.6	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	2.2	0.000	0.000	0.333
37 Wilson Avenue, North Branch Chicago River	2.8	0.000	0.000	0.400
73 Diversey Parkway, North Branch Chicago River	2.6	0.000	0.000	2.200
46 Grand Avenue, North Branch Chicago River	4.3	0.000	0.000	0.400
74 Lake Shore Drive, Chicago River	3.3	0.000	0.000	0.000
100 Wells Street, Chicago River	2.8	0.000	0.000	0.000
39 Madison Street, South Branch Chicago River	4.2	0.000	0.000	0.333
108 Loomis Street, South Branch Chicago River	5.4	0.000	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	21.5	0.000	0.000	0.800
40 Damen Avenue, Chicago Sanitary & Ship Canal	14.1	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.5	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.6	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	6.4	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	5.3	0.000	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.2	0.000	0.000	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	0.9	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	6.8	0.000	0.000	0.000
55 130th Street, Calumet River	2.9	0.000	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	57.7	0.000	0.000	0.400
56 Indiana Avenue, Little Calumet River	16.4	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	7.1	0.000	0.000	0.667
52 Wentworth Avenue, Little Calumet River	6.0	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	12.4	0.000	0.000	0.000
97 170th Street, Thorn Creek	8.2	0.000	0.000	0.000
57 Ashland Avenue, Little Calumet River	9.2	0.000	0.000	0.400
58 Ashland Avenue, Calumet Sag Channel	10.4	0.000	0.000	0.857
59 Cicero Avenue, Calumet Sag Channel	7.5	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	8.8	0.000	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	12.5	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	9.1	0.000	0.000	0.000
64 Lake Street, West Branch DuPage River	24.6	0.000	0.000	0.000
79 Higgins Road, Salt Creek	31.0	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	12.4	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	14.8	0.000	0.000	0.000
24 Wolf Road, Salt Creek	11.0	0.000	0.000	0.000
109 Brookfield Avenue, Salt Creek	11.3	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	14.1	0.000	0.000	0.000
78 Wille Road, Higgins Creek	2.5	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	31.3	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	27.5	0.000	0.000	0.000
17 Oakton Steet, Des Plaines River	34.3	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	23.2	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	23.4	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	19.1	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	29.0	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	49.0	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	34.6	0.000	0.000	0.000
110 Springinsguth Road, West Branch DuPage River	59.8	0.000	0.000	2.200

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	Xyln μg/L	Ag mg/L	As mg/L	Ba mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.051
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.055
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.042
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.032
32 Lake-Cook Road, Skokie River	0.000	0.000	0.001	0.041
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.030
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.041
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	0.040
35 Central Street, North Shore Channel	0.000	0.000	0.001	0.025
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.025
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.022
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.022
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.024
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.024
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.001	0.025
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.023
100 Wells Street, Chicago River	0.000	0.000	0.000	0.023
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.024
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.025
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.025
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.025
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.025
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.020
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.020
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.023
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.023
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.022
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.002	0.033
55 130th Street, Calumet River	0.000	0.000	0.000	0.030
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.043
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.030
76 Halsted Street, Little Calumet River	0.000	0.000	0.001	0.022
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.037
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.042
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.042
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.040
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.001	0.026
59 Cicero Avenue, Calumet Sag Channel	0.000	0.001	0.000	0.024
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.025
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.112
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.026
64 Lake Street, West Branch DuPage River	0.000	0.000	0.001	0.033
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.053
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.033
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.031
24 Wolf Road, Salt Creek	0.000	0.000	0.001	0.033
109 Brookfield Avenue, Salt Creek	ND	0.000	0.001	0.033
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.056
78 Wille Road, Higgins Creek	0.000	0.000	0.001	0.020
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.001	0.056
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.038
17 Oakton Steet, Des Plaines River	0.000	0.000	0.001	0.040
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.001	0.037
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.001	0.037
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.002	0.036
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.001	0.036
29 Stephen Street, Des Plaines River	0.000	0.000	0.001	0.035
91 Material Service Road, Des Plaines River	0.000	0.000	0.002	0.035
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.001	0.053

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	B mg/L	Cd mg/L	Cu mg/L	Cr mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.178	0.000	0.028	0.000
103 Golf Road, West Fork North Branch Chicago River	0.191	0.001	0.017	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.176	0.000	0.021	0.000
104 Glenview Road, North Branch Chicago River	0.182	0.000	0.016	0.000
32 Lake-Cook Road, Skokie River	0.161	0.000	0.017	0.000
105 Frontage Road, Skokie River	0.188	0.000	0.018	0.000
34 Dempster Street, North Branch Chicago River	0.192	0.000	0.018	0.000
96 Albany Avenue, North Branch Chicago River	0.185	0.000	0.017	0.001
35 Central Street, North Shore Channel	0.039	0.000	0.014	0.002
102 Oakton Street, North Shore Channel	0.093	0.000	0.013	0.000
36 Touhy Avenue, North Shore Channel	0.180	0.000	0.017	0.000
101 Foster Avenue, North Shore Channel	0.177	0.000	0.016	0.000
37 Wilson Avenue, North Branch Chicago River	0.168	0.000	0.016	0.000
73 Diversey Parkway, North Branch Chicago River	0.160	0.000	0.017	0.000
46 Grand Avenue, North Branch Chicago River	0.172	0.000	0.017	0.000
74 Lake Shore Drive, Chicago River	0.061	0.000	0.015	0.000
100 Wells Street, Chicago River	0.082	0.000	0.016	0.000
39 Madison Street, South Branch Chicago River	0.132	0.000	0.017	0.000
108 Loomis Street, South Branch Chicago River	0.135	0.000	0.018	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.134	0.000	0.015	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.133	0.000	0.018	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.133	0.000	0.019	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.176	0.000	0.013	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.219	0.000	0.015	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.216	0.000	0.015	0.002
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.223	0.000	0.016	0.001
Calumet River System				
49 Ewing Avenue, Calumet River	0.042	0.000	0.013	0.000
50 Burnham Avenue, Wolf Lake	0.147	0.000	0.014	0.000
55 130th Street, Calumet River	0.113	0.000	0.013	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.287	0.001	0.038	0.009
56 Indiana Avenue, Little Calumet River	0.116	0.000	0.015	0.000
76 Halsted Street, Little Calumet River	0.205	0.000	0.015	0.000
52 Wentworth Avenue, Little Calumet River	0.224	0.000	0.015	0.001
54 Joe Orr Road, Thorn Creek	0.269	0.001	0.020	0.004
97 170th Street, Thorn Creek	0.251	0.000	0.017	0.001
57 Ashland Avenue, Little Calumet River	0.232	0.000	0.019	0.002
58 Ashland Avenue, Calumet Sag Channel	0.206	0.000	0.020	0.000
59 Cicero Avenue, Calumet Sag Channel	0.199	0.000	0.014	0.000
43 Route 83, Calumet Sag Channel	0.207	0.000	0.014	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.071	0.001	0.015	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.278	0.000	0.021	0.000
64 Lake Street, West Branch DuPage River	0.238	0.000	0.022	0.000
79 Higgins Road, Salt Creek	0.098	0.001	0.017	0.001
80 Arlington Heights Road, Salt Creek	0.205	0.001	0.018	0.000
18 Devon Avenue, Salt Creek	0.207	0.000	0.021	0.001
24 Wolf Road, Salt Creek	0.233	0.000	0.020	0.001
109 Brookfield Avenue, Salt Creek	0.262	0.001	0.020	0.003
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.081	0.000	0.016	0.000
78 Wille Road, Higgins Creek	0.366	0.000	0.017	0.000
12 Lake-Cook Road, Buffalo Creek	0.107	0.001	0.031	0.000
13 Lake-Cook Road, Des Plaines River	0.221	0.001	0.017	0.001
17 Oakton Steet, Des Plaines River	0.215	0.000	0.016	0.000
19 Belmont Avenue, Des Plaines River	0.236	0.000	0.019	0.013
20 Roosevelt Road, Des Plaines River	0.237	0.001	0.017	0.004
22 Ogden Avenue, Des Plaines River	0.236	0.001	0.020	0.002
23 Willow Springs Road, Des Plaines River	0.243	0.001	0.021	0.005
29 Stephen Street, Des Plaines River	0.243	0.001	0.019	0.003
91 Material Service Road, Des Plaines River	0.249	0.001	0.017	0.002
110 Springinsguth Road, West Branch DuPage River	0.078	0.001	0.017	0.000

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	Cr ⁺⁶ μg/L	Fe mg/L	Pb mg/L	Ni mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	3.500	1.173	0.006	0.003
103 Golf Road, West Fork North Branch Chicago River	1.400	0.864	0.005	0.003
31 Lake-Cook Road, Middle Fork North Branch	1.300	0.817	0.004	0.002
104 Glenview Road, North Branch Chicago River	1.500	0.598	0.003	0.002
32 Lake-Cook Road, Skokie River	0.909	0.867	0.003	0.001
105 Frontage Road, Skokie River	1.250	0.476	0.003	0.001
34 Dempster Street, North Branch Chicago River	1.909	0.697	0.005	0.002
96 Albany Avenue, North Branch Chicago River	1.273	0.646	0.005	0.002
35 Central Street, North Shore Channel	1.750	0.329	0.002	0.000
102 Oakton Street, North Shore Channel	1.750	0.358	0.004	0.002
36 Touhy Avenue, North Shore Channel	1.333	0.209	0.003	0.002
101 Foster Avenue, North Shore Channel	1.846	0.306	0.003	0.003
37 Wilson Avenue, North Branch Chicago River	1.833	0.306	0.003	0.003
73 Diversey Parkway, North Branch Chicago River	1.583	0.319	0.004	0.003
46 Grand Avenue, North Branch Chicago River	1.667	0.386	0.005	0.004
74 Lake Shore Drive, Chicago River	0.400	0.127	0.004	0.001
100 Wells Street, Chicago River	0.417	0.171	0.004	0.002
39 Madison Street, South Branch Chicago River	0.667	0.326	0.006	0.004
108 Loomis Street, South Branch Chicago River	0.500	0.327	0.006	0.004
99 Archer Avenue, South Fork South Branch Chicago River	0.909	0.393	0.007	0.004
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.833	0.360	0.007	0.004
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.750	0.401	0.007	0.004
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.667	0.256	0.004	0.006
42 Route 83, Chicago Sanitary & Ship Canal	0.818	0.247	0.005	0.006
48 Stephen Street, Chicago Sanitary & Ship Canal	0.909	0.473	0.007	0.006
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.442	0.443	0.006	0.006
Calumet River System				
49 Ewing Avenue, Calumet River	0.818	0.202	0.003	0.000
50 Burnham Avenue, Wolf Lake	1.167	0.148	0.004	0.000
55 130th Street, Calumet River	1.091	0.257	0.004	0.001
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1.700	2.100	0.034	0.005
56 Indiana Avenue, Little Calumet River	1.000	0.684	0.006	0.002
76 Halsted Street, Little Calumet River	1.583	0.321	0.005	0.004
52 Wentworth Avenue, Little Calumet River	1.364	1.388	0.005	0.003
54 Joe Orr Road, Thorn Creek	2.500	2.309	0.016	0.004
97 170th Street, Thorn Creek	1.636	1.516	0.007	0.007
57 Ashland Avenue, Little Calumet River	1.545	1.514	0.008	0.005
58 Ashland Avenue, Calumet Sag Channel	1.500	0.548	0.010	0.003
59 Cicero Avenue, Calumet Sag Channel	1.583	0.524	0.005	0.003
43 Route 83, Calumet Sag Channel	1.273	0.514	0.008	0.004
Des Plaines River System				
90 Route 19, Poplar Creek	1.455	1.031	0.003	0.002
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	1.250	0.383	0.003	0.003
64 Lake Street, West Branch DuPage River	1.583	1.009	0.012	0.004
79 Higgins Road, Salt Creek	1.778	1.534	0.005	0.004
80 Arlington Heights Road, Salt Creek	2.250	0.344	0.003	0.003
18 Devon Avenue, Salt Creek	1.667	0.421	0.004	0.003
24 Wolf Road, Salt Creek	2.333	0.875	0.004	0.005
109 Brookfield Avenue, Salt Creek	1.917	0.903	0.005	0.006
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1.000	0.866	0.004	0.002
78 Wille Road, Higgins Creek	1.333	0.160	0.004	0.014
12 Lake-Cook Road, Buffalo Creek	1.429	1.080	0.005	0.003
13 Lake-Cook Road, Des Plaines River	1.583	0.892	0.003	0.005
17 Oakton Steet, Des Plaines River	1.417	0.722	0.004	0.004
19 Belmont Avenue, Des Plaines River	10.333	0.682	0.005	0.006
20 Roosevelt Road, Des Plaines River	3.833	0.766	0.005	0.006
22 Ogden Avenue, Des Plaines River	1.500	0.850	0.005	0.006
23 Willow Springs Road, Des Plaines River	3.083	0.727	0.005	0.006
29 Stephen Street, Des Plaines River	1.500	0.756	0.005	0.005
91 Material Service Road, Des Plaines River	1.417	0.790	0.005	0.005
110 Springinsguth Road, West Branch DuPage River	1.727	1.425	0.004	0.003

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	Mn mg/L	Hg μg/L	Zn mg/L	Se mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.083	0.000	0.039	0.007
103 Golf Road, West Fork North Branch Chicago River	0.087	0.039	0.028	0.006
31 Lake-Cook Road, Middle Fork North Branch	0.128	0.013	0.019	0.005
104 Glenview Road, North Branch Chicago River	0.080	0.034	0.038	0.004
32 Lake-Cook Road, Skokie River	0.124	0.029	0.027	0.005
105 Frontage Road, Skokie River	0.045	0.062	0.035	0.006
34 Dempster Street, North Branch Chicago River	0.072	0.034	0.031	0.006
96 Albany Avenue, North Branch Chicago River	0.059	0.064	0.030	0.004
35 Central Street, North Shore Channel	0.045	0.016	0.019	0.007
102 Oakton Street, North Shore Channel	0.021	0.068	0.030	0.004
36 Touhy Avenue, North Shore Channel	0.021	0.040	0.042	0.008
101 Foster Avenue, North Shore Channel	0.021	0.046	0.039	0.006
37 Wilson Avenue, North Branch Chicago River	0.026	0.041	0.039	0.007
73 Diversey Parkway, North Branch Chicago River	0.026	0.022	0.037	0.005
46 Grand Avenue, North Branch Chicago River	0.033	0.018	0.049	0.009
74 Lake Shore Drive, Chicago River	0.012	0.000	0.029	0.006
100 Wells Street, Chicago River	0.020	0.030	0.030	0.005
39 Madison Street, South Branch Chicago River	0.069	0.011	0.043	0.007
108 Loomis Street, South Branch Chicago River	0.036	0.017	0.038	0.008
99 Archer Avenue, South Fork South Branch Chicago River	0.038	0.020	0.039	0.006
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.031	0.007	0.045	0.008
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.029	0.029	0.040	0.010
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.019	0.000	0.041	0.008
42 Route 83, Chicago Sanitary & Ship Canal	0.021	0.010	0.038	0.007
48 Stephen Street, Chicago Sanitary & Ship Canal	0.039	0.016	0.044	0.007
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.037	0.017	0.049	0.007
Calumet River System				
49 Ewing Avenue, Calumet River	0.016	0.000	0.014	0.004
50 Burnham Avenue, Wolf Lake	0.054	0.005	0.015	0.004
55 130th Street, Calumet River	0.033	0.017	0.022	0.005
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.093	0.148	0.154	0.005
56 Indiana Avenue, Little Calumet River	0.037	0.019	0.030	0.005
76 Halsted Street, Little Calumet River	0.037	0.018	0.051	0.006
52 Wentworth Avenue, Little Calumet River	0.115	0.036	0.035	0.004
54 Joe Orr Road, Thorn Creek	0.131	0.033	0.103	0.005
97 170th Street, Thorn Creek	0.095	0.031	0.046	0.005
57 Ashland Avenue, Little Calumet River	0.123	0.044	0.059	0.007
58 Ashland Avenue, Calumet Sag Channel	0.052	0.010	0.069	0.005
59 Cicero Avenue, Calumet Sag Channel	0.050	0.019	0.044	0.005
43 Route 83, Calumet Sag Channel	0.065	0.023	0.055	0.005
Des Plaines River System				
90 Route 19, Poplar Creek	0.147	0.045	0.035	0.008
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.044	0.007	0.051	0.008
64 Lake Street, West Branch DuPage River	0.087	0.013	0.051	0.008
79 Higgins Road, Salt Creek	0.138	0.008	0.028	0.007
80 Arlington Heights Road, Salt Creek	0.063	0.023	0.039	0.009
18 Devon Avenue, Salt Creek	0.053	0.044	0.042	0.008
24 Wolf Road, Salt Creek	0.059	0.011	0.049	0.009
109 Brookfield Avenue, Salt Creek	0.065	0.000	0.050	0.007
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.106	0.000	0.041	0.010
78 Wille Road, Higgins Creek	0.023	0.013	0.076	0.008
12 Lake-Cook Road, Buffalo Creek	0.163	0.016	0.034	0.007
13 Lake-Cook Road, Des Plaines River	0.086	0.014	0.036	0.007
17 Oakton Steet, Des Plaines River	0.080	0.017	0.037	0.006
19 Belmont Avenue, Des Plaines River	0.079	0.000	0.054	0.007
20 Roosevelt Road, Des Plaines River	0.073	0.013	0.046	0.007
22 Ogden Avenue, Des Plaines River	0.068	0.013	0.046	0.010
23 Willow Springs Road, Des Plaines River	0.064	0.013	0.043	0.008
29 Stephen Street, Des Plaines River	0.066	0.011	0.042	0.008
91 Material Service Road, Des Plaines River	0.068	0.021	0.040	0.010
110 Springinsguth Road, West Branch DuPage River	0.209	0.031	0.035	0.009

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	Sol.Ca mg/L	Sol.Mg mg/L	Sol.Ag mg/L	Sol.As mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	65.7	27.3	0.000	0.000
103 Golf Road, West Fork North Branch Chicago River	74.0	29.9	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	59.4	30.8	0.000	0.000
104 Glenview Road, North Branch Chicago River	55.5	25.4	0.000	0.000
32 Lake-Cook Road, Skokie River	64.0	30.2	0.000	0.000
105 Frontage Road, Skokie River	55.7	25.0	0.000	0.000
34 Dempster Street, North Branch Chicago River	61.6	27.2	0.000	0.000
96 Albany Avenue, North Branch Chicago River	63.7	27.7	0.000	0.000
35 Central Street, North Shore Channel	32.8	11.3	0.000	0.000
102 Oakton Street, North Shore Channel	42.7	15.2	0.000	0.000
36 Touhy Avenue, North Shore Channel	46.8	16.8	0.000	0.000
101 Foster Avenue, North Shore Channel	47.4	16.9	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	49.6	18.2	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	49.1	17.8	0.000	0.000
46 Grand Avenue, North Branch Chicago River	52.7	19.5	0.000	0.000
74 Lake Shore Drive, Chicago River	37.9	13.4	0.000	0.000
100 Wells Street, Chicago River	41.8	14.7	0.000	0.000
39 Madison Street, South Branch Chicago River	49.0	17.8	0.000	0.000
108 Loomis Street, South Branch Chicago River	51.2	18.9	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	48.5	17.4	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	49.8	18.3	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	51.1	18.8	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	51.4	18.9	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	53.6	19.8	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	56.1	21.0	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	54.9	20.4	0.000	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	34.4	11.5	0.000	0.000
50 Burnham Avenue, Wolf Lake	34.8	13.1	0.000	0.000
55 130th Street, Calumet River	40.9	14.2	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	64.3	43.0	0.000	0.000
56 Indiana Avenue, Little Calumet River	44.7	16.7	0.000	0.000
76 Halsted Street, Little Calumet River	60.7	21.7	0.000	0.001
52 Wentworth Avenue, Little Calumet River	70.9	28.6	0.000	0.000
54 Joe Orr Road, Thorn Creek	66.9	30.2	0.000	0.000
97 170th Street, Thorn Creek	78.0	35.0	0.000	0.000
57 Ashland Avenue, Little Calumet River	68.9	29.1	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	63.2	23.2	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	61.6	22.7	0.000	0.001
43 Route 83, Calumet Sag Channel	60.7	22.7	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	60.5	28.2	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	54.8	20.9	0.000	0.000
64 Lake Street, West Branch DuPage River	56.7	21.8	0.000	0.000
79 Higgins Road, Salt Creek	60.1	27.6	0.000	0.000
80 Arlington Heights Road, Salt Creek	62.7	25.0	0.000	0.000
18 Devon Avenue, Salt Creek	61.9	24.6	0.000	0.000
24 Wolf Road, Salt Creek	59.7	25.3	0.000	0.000
109 Brookfield Avenue, Salt Creek	58.2	24.6	0.000	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	52.2	17.8	0.000	0.000
78 Wille Road, Higgins Creek	64.0	24.3	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	79.9	37.9	0.000	0.000
13 Lake-Cook Road, Des Plaines River	63.4	28.9	0.000	0.001
17 Oakton Steet, Des Plaines River	62.6	28.6	0.000	0.000
19 Belmont Avenue, Des Plaines River	62.5	27.7	0.000	0.000
20 Roosevelt Road, Des Plaines River	60.7	27.2	0.000	0.000
22 Ogden Avenue, Des Plaines River	58.0	25.6	0.000	0.000
23 Willow Springs Road, Des Plaines River	59.2	26.4	0.000	0.000
29 Stephen Street, Des Plaines River	62.3	27.6	0.000	0.000
91 Material Service Road, Des Plaines River	61.8	27.7	0.000	0.000
110 Springinsguth Road, West Branch DuPage River	72.6	26.7	0.000	0.000

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	Sol.Ba mg/L	Sol.B mg/L	Sol.Cd mg/L	Sol.Cu mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.043	0.176	0.000	0.003
103 Golf Road, West Fork North Branch Chicago River	0.046	0.178	0.001	0.001
31 Lake-Cook Road, Middle Fork North Branch	0.034	0.163	0.001	0.001
104 Glenview Road, North Branch Chicago River	0.026	0.170	0.000	0.001
32 Lake-Cook Road, Skokie River	0.035	0.151	0.000	0.001
105 Frontage Road, Skokie River	0.025	0.175	0.000	0.002
34 Dempster Street, North Branch Chicago River	0.032	0.174	0.000	0.001
96 Albany Avenue, North Branch Chicago River	0.033	0.177	0.000	0.001
35 Central Street, North Shore Channel	0.019	0.030	0.000	0.000
102 Oakton Street, North Shore Channel	0.021	0.085	0.000	0.001
36 Touhy Avenue, North Shore Channel	0.018	0.168	0.000	0.000
101 Foster Avenue, North Shore Channel	0.018	0.164	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	0.020	0.155	0.000	0.001
73 Diversey Parkway, North Branch Chicago River	0.019	0.150	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.020	0.161	0.000	0.000
74 Lake Shore Drive, Chicago River	0.021	0.053	0.000	0.001
100 Wells Street, Chicago River	0.020	0.073	0.000	0.002
39 Madison Street, South Branch Chicago River	0.020	0.126	0.000	0.001
108 Loomis Street, South Branch Chicago River	0.021	0.126	0.000	0.002
99 Archer Avenue, South Fork South Branch Chicago River	0.020	0.128	0.000	0.001
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.020	0.126	0.000	0.002
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.126	0.000	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.016	0.165	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.016	0.207	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.017	0.201	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.017	0.209	0.000	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	0.020	0.036	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.030	0.142	0.000	0.000
55 130th Street, Calumet River	0.027	0.109	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.016	0.271	0.001	0.000
56 Indiana Avenue, Little Calumet River	0.025	0.111	0.000	0.000
76 Halsted Street, Little Calumet River	0.018	0.193	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.028	0.216	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.026	0.252	0.000	0.000
97 170th Street, Thorn Creek	0.032	0.235	0.000	0.000
57 Ashland Avenue, Little Calumet River	0.029	0.222	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.020	0.199	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.019	0.189	0.000	0.000
43 Route 83, Calumet Sag Channel	0.019	0.195	0.000	0.001
Des Plaines River System				
90 Route 19, Poplar Creek	0.095	0.061	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.022	0.267	0.000	0.004
64 Lake Street, West Branch DuPage River	0.026	0.222	0.000	0.003
79 Higgins Road, Salt Creek	0.041	0.092	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.028	0.192	0.000	0.002
18 Devon Avenue, Salt Creek	0.027	0.198	0.000	0.003
24 Wolf Road, Salt Creek	0.025	0.227	0.000	0.003
109 Brookfield Avenue, Salt Creek	0.026	0.254	0.000	0.002
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.049	0.074	0.000	0.001
78 Wille Road, Higgins Creek	0.018	0.341	0.000	0.002
12 Lake-Cook Road, Buffalo Creek	0.047	0.101	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.031	0.211	0.000	0.001
17 Oakton Steet, Des Plaines River	0.033	0.204	0.000	0.001
19 Belmont Avenue, Des Plaines River	0.031	0.225	0.000	0.001
20 Roosevelt Road, Des Plaines River	0.031	0.230	0.000	0.001
22 Ogden Avenue, Des Plaines River	0.028	0.229	0.000	0.002
23 Willow Springs Road, Des Plaines River	0.029	0.234	0.000	0.001
29 Stephen Street, Des Plaines River	0.028	0.235	0.000	0.001
91 Material Service Road, Des Plaines River	0.027	0.241	0.000	0.001
110 Springinsguth Road, West Branch DuPage River	0.044	0.074	0.000	0.000

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	Sol.Cr mg/L	Sol.Fe mg/L	Sol.Pb mg/L	Sol.Ni mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.041	0.002	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	0.029	0.001	0.001
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.072	0.002	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.029	0.002	0.001
32 Lake-Cook Road, Skokie River	0.000	0.040	0.001	0.000
105 Frontage Road, Skokie River	0.000	0.023	0.001	0.001
34 Dempster Street, North Branch Chicago River	0.000	0.025	0.001	0.001
96 Albany Avenue, North Branch Chicago River	0.000	0.027	0.001	0.001
35 Central Street, North Shore Channel	0.000	0.022	0.001	0.000
102 Oakton Street, North Shore Channel	0.000	0.025	0.001	0.001
36 Touhy Avenue, North Shore Channel	0.000	0.025	0.001	0.001
101 Foster Avenue, North Shore Channel	0.000	0.030	0.001	0.002
37 Wilson Avenue, North Branch Chicago River	0.000	0.035	0.001	0.002
73 Diversey Parkway, North Branch Chicago River	0.000	0.036	0.001	0.002
46 Grand Avenue, North Branch Chicago River	0.001	0.033	0.001	0.003
74 Lake Shore Drive, Chicago River	0.000	0.008	0.001	0.000
100 Wells Street, Chicago River	0.000	0.014	0.001	0.001
39 Madison Street, South Branch Chicago River	0.000	0.025	0.001	0.002
108 Loomis Street, South Branch Chicago River	0.000	0.033	0.001	0.002
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.019	0.001	0.002
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.023	0.001	0.003
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.026	0.001	0.002
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.027	0.001	0.004
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.028	0.002	0.005
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.025	0.002	0.004
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.025	0.002	0.004
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.004	0.001	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.008	0.001	0.000
55 130th Street, Calumet River	0.000	0.007	0.001	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.070	0.002	0.002
56 Indiana Avenue, Little Calumet River	0.000	0.006	0.002	0.001
76 Halsted Street, Little Calumet River	0.001	0.038	0.002	0.002
52 Wentworth Avenue, Little Calumet River	0.000	0.082	0.001	0.000
54 Joe Orr Road, Thorn Creek	0.001	0.078	0.002	0.000
97 170th Street, Thorn Creek	0.001	0.040	0.002	0.004
57 Ashland Avenue, Little Calumet River	0.000	0.046	0.002	0.002
58 Ashland Avenue, Calumet Sag Channel	0.000	0.032	0.002	0.002
59 Cicero Avenue, Calumet Sag Channel	0.000	0.029	0.002	0.003
43 Route 83, Calumet Sag Channel	0.000	0.017	0.002	0.002
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.055	0.002	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.054	0.001	0.002
64 Lake Street, West Branch DuPage River	0.000	0.042	0.001	0.002
79 Higgins Road, Salt Creek	0.000	0.043	0.002	0.001
80 Arlington Heights Road, Salt Creek	0.000	0.044	0.001	0.002
18 Devon Avenue, Salt Creek	0.000	0.037	0.001	0.002
24 Wolf Road, Salt Creek	0.001	0.051	0.002	0.003
109 Brookfield Avenue, Salt Creek	0.002	0.039	0.001	0.003
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.052	0.002	0.001
78 Wille Road, Higgins Creek	0.001	0.046	0.002	0.012
12 Lake-Cook Road, Buffalo Creek	0.000	0.024	0.002	0.000
13 Lake-Cook Road, Des Plaines River	0.000	0.027	0.002	0.003
17 Oakton Steet, Des Plaines River	0.000	0.028	0.002	0.002
19 Belmont Avenue, Des Plaines River	0.014	0.033	0.002	0.005
20 Roosevelt Road, Des Plaines River	0.004	0.035	0.002	0.004
22 Ogden Avenue, Des Plaines River	0.001	0.037	0.001	0.003
23 Willow Springs Road, Des Plaines River	0.004	0.029	0.002	0.003
29 Stephen Street, Des Plaines River	0.002	0.019	0.002	0.003
91 Material Service Road, Des Plaines River	0.001	0.020	0.001	0.003
110 Springinsguth Road, West Branch DuPage River	0.000	0.160	0.002	0.001

ND = No Data

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2005

Sampling Station No. Name	Sol.Mn mg/L	Sol.Hg µg/L	Sol.Zn mg/L	Sol.Se mg/L
Chicago River System				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.059	ND	0.019	0.011
103 Golf Road, West Fork North Branch Chicago River	0.054	0.000	0.011	0.007
31 Lake-Cook Road, Middle Fork North Branch	0.100	ND	0.005	0.005
104 Glenview Road, North Branch Chicago River	0.054	ND	0.018	0.006
32 Lake-Cook Road, Skokie River	0.094	0.025	0.011	0.006
105 Frontage Road, Skokie River	0.021	0.045	0.023	0.005
34 Dempster Street, North Branch Chicago River	0.044	0.000	0.014	0.008
96 Albany Avenue, North Branch Chicago River	0.033	0.000	0.015	0.007
35 Central Street, North Shore Channel	0.005	0.000	0.004	0.007
102 Oakton Street, North Shore Channel	0.011	0.000	0.018	0.005
36 Touhy Avenue, North Shore Channel	0.013	0.000	0.029	0.006
101 Foster Avenue, North Shore Channel	0.013	0.000	0.028	0.007
37 Wilson Avenue, North Branch Chicago River	0.018	0.080	0.031	0.008
73 Diversey Parkway, North Branch Chicago River	0.019	ND	0.024	0.006
46 Grand Avenue, North Branch Chicago River	0.025	0.000	0.028	0.007
74 Lake Shore Drive, Chicago River	0.011	ND	0.012	0.005
100 Wells Street, Chicago River	0.015	0.000	0.014	0.003
39 Madison Street, South Branch Chicago River	0.040	ND	0.023	0.006
108 Loomis Street, South Branch Chicago River	0.028	ND	0.022	0.007
99 Archer Avenue, South Fork South Branch Chicago River	0.028	ND	0.017	0.005
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.022	ND	0.023	0.006
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.018	ND	0.021	0.006
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.013	ND	0.023	0.006
42 Route 83, Chicago Sanitary & Ship Canal	0.017	0.000	0.024	0.005
48 Stephen Street, Chicago Sanitary & Ship Canal	0.028	ND	0.022	0.005
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.025	0.000	0.024	0.005
Calumet River System				
49 Ewing Avenue, Calumet River	0.008	ND	0.005	0.005
50 Burnham Avenue, Wolf Lake	0.008	ND	0.004	0.004
55 130th Street, Calumet River	0.012	ND	0.008	0.002
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.067	0.085	0.020	0.006
56 Indiana Avenue, Little Calumet River	0.012	ND	0.009	0.003
76 Halsted Street, Little Calumet River	0.029	ND	0.026	0.004
52 Wentworth Avenue, Little Calumet River	0.089	0.000	0.013	0.004
54 Joe Orr Road, Thorn Creek	0.060	ND	0.032	0.005
97 170th Street, Thorn Creek	0.061	ND	0.020	0.004
57 Ashland Avenue, Little Calumet River	0.081	0.000	0.019	0.004
58 Ashland Avenue, Calumet Sag Channel	0.039	ND	0.036	0.005
59 Cicero Avenue, Calumet Sag Channel	0.036	ND	0.023	0.004
43 Route 83, Calumet Sag Channel	0.039	0.000	0.026	0.004
Des Plaines River System				
90 Route 19, Poplar Creek	0.077	0.060	0.005	0.005
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.034	ND	0.036	0.005
64 Lake Street, West Branch DuPage River	0.053	ND	0.027	0.007
79 Higgins Road, Salt Creek	0.036	ND	0.004	0.005
80 Arlington Heights Road, Salt Creek	0.024	0.000	0.021	0.007
18 Devon Avenue, Salt Creek	0.026	0.000	0.028	0.008
24 Wolf Road, Salt Creek	0.031	ND	0.029	0.006
109 Brookfield Avenue, Salt Creek	0.035	ND	0.026	0.005
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.072	ND	0.017	0.009
78 Wille Road, Higgins Creek	0.016	0.000	0.062	0.006
12 Lake-Cook Road, Buffalo Creek	0.083	0.000	0.008	0.005
13 Lake-Cook Road, Des Plaines River	0.036	0.000	0.021	0.006
17 Oakton Steet, Des Plaines River	0.039	0.080	0.019	0.005
19 Belmont Avenue, Des Plaines River	0.045	ND	0.027	0.006
20 Roosevelt Road, Des Plaines River	0.039	ND	0.026	0.005
22 Ogden Avenue, Des Plaines River	0.029	ND	0.024	0.008
23 Willow Springs Road, Des Plaines River	0.033	0.000	0.022	0.006
29 Stephen Street, Des Plaines River	0.022	ND	0.021	0.006
91 Material Service Road, Des Plaines River	0.021	0.000	0.018	0.006
110 Springinsguth Road, West Branch DuPage River	0.186	0.000	0.011	0.008

ND = No Data

TABLE AII-2: DISSOLVED OXYGEN VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	1/6	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	2/10	1/10	3/8	2/11	4/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	6/10	5/10	5/9	3/10	4/11	4/10	3/10	6/12
104 Glenview Road, North Branch Chicago River	1/12	1/12	0/3	0/9	1/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	2/11	2/10	2/9	2/10	3/11	3/10	6/11	2/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	3/11	0/12	1/11	2/12	2/12	1/11	1/11	0/12
96 Albany Avenue, North Branch Chicago River	1/11	0/11	1/10	1/12	1/12	1/6	ND	ND
35 Central Street, North Shore Channel	2/8	1/9	1/9	1/9	0/9	1/8	2/10	2/9
102 Oakton Street, North Shore Channel	0/12	2/12	1/10	0/11	3/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	1/12	0/12	0/12	0/12	0/12	1/12	1/12	1/12
46 Grand Avenue, North Branch Chicago River	1/12	0/12	0/12	1/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	1/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	1/11	2/12	2/12	6/12	6/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	1/12	0/12	ND	ND	2/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	1/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1/12	1/12	3/12	2/12	1/12	2/12	2/12	1/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	1/12	1/12	2/12	0/11	1/12	1/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	2/12	0/11	0/11	1/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5/52	3/50	5/51	11/50	9/54	8/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/21	0/23	0/24	0/24	0/24
50 Burnham Avenue, Wolf Lake	1/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/21	0/21	1/23	0/22	0/24
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	4/10	5/9	7/10	4/11	6/10	4/11	3/11	2/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/21	0/17	0/23	0/23	0/23
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/21	0/23	1/24	0/23	0/24
52 Wentworth Avenue, Little Calumet River	5/11	3/9	3/10	4/11	5/11	5/11	5/11	2/12
54 Joe Orr Road, Thorn Creek	2/8	0/6	0/3	0/7	0/12	0/12	0/12	0/11
97 170th Street, Thorn Creek	1/11	0/11	1/10	0/12	2/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	5/11	4/10	6/10	3/12	5/10	4/11	5/11	5/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/21	0/23	1/24	0/23	0/16
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/20	0/23	0/24	0/23	0/24
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/21	1/22	0/23	0/23	0/24
Des Plaines River System								
90 Route 19, Poplar Creek	0/10	0/10	0/10	1/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/10	0/11	0/12	0/11	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	1/11	0/12	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	3/9	0/10	2/9	1/8	1/10	4/10	1/10	1/10
80 Arlington Heights Road, Salt Creek	0/12	0/11	0/12	0/10	0/12	0/12	0/11	1/12
18 Devon Avenue, Salt Creek	0/12	0/11	0/12	0/10	0/12	0/12	1/11	0/12
24 Wolf Road, Salt Creek	0/12	1/10	0/12	1/12	1/12	0/10	1/11	0/6
109 Brookfield Avenue, Salt Creek	1/12	0/10	0/10	2/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/3	1/12	1/10	1/11	2/12
77 Elmhurst Road, Higgins Creek	0/4	0/3	0/5	1/6	0/11	1/10	0/11	2/12
78 Wille Road, Higgins Creek	0/12	0/10	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/6	1/8	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/10	1/12	1/12	0/12	0/12	0/11	0/12
17 Oakton Street, Des Plaines River	2/12	0/10	1/10	1/11	0/12	0/10	1/11	0/12
19 Belmont Avenue, Des Plaines River	3/12	3/10	2/12	4/12	1/12	2/10	4/11	4/12
20 Roosevelt Road, Des Plaines River	2/12	3/10	1/7	3/12	1/12	2/10	4/11	5/12
22 Ogden Avenue, Des Plaines River	0/12	0/10	0/5	0/12	0/12	0/10	2/11	0/12
23 Willow Springs Road, Des Plaines River	1/12	0/10	0/10	2/10	0/12	1/10	0/11	0/12
29 Stephen Street, Des Plaines River	0/11	0/10	0/11	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	1/10	0/12	0/12	1/52	0/49	ND	ND
110 Springinguth Road, West Branch DuPage River	4/11	5/9	ND	ND	ND	ND	ND	ND

ND = No Data

**TABLE AII-3: TEMPERATURE VIOLATION HISTORY
1998 THROUGH 2005**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/5	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/9	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/8	0/7	0/11	0/9	0/10	0/12
104 Glenview Road, North Branch Chicago River	1/12	0/12	0/3	0/7	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	1/11	0/10	0/8	0/7	0/11	0/9	0/10	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/10	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/10	0/12	0/10	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/11	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/7	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/12	0/11	0/10	0/10	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/11	0/11	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/11	0/12	0/10	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/11	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/11	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/10	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/11	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/11	0/11	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/11	0/12	0/12	0/12	0/10	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/10	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/50	0/50	0/46	0/54	0/48	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/10	0/13	0/11	0/20	0/24
50 Burnham Avenue, Wolf Lake	0/12	0/12	1/12	0/10	0/10	0/11	0/11	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/10	0/13	0/10	0/18	0/24
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/9	0/9	0/10	0/10	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/10	0/11	0/19	0/23
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/14	0/11	0/19	0/24
52 Wentworth Avenue, Little Calumet River	0/11	0/9	1/10	0/11	0/11	0/10	0/10	0/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/11	0/11	0/12
97 170th Street, Thorn Creek	0/11	0/11	1/10	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	1/10	0/11	0/10	0/10	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/11	0/14	0/11	0/20	0/16
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/9	0/14	0/11	0/20	0/24
43 Route 83, Calumet Sag Channel	0/11	1/10	0/11	0/10	0/14	0/11	0/20	0/24
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/8	0/11	0/7	0/9	1/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	1/8
89 Walnut Lane, West Branch DuPage River	0/12	0/10	0/11	0/12	0/12	0/12	0/10	1/12
64 Lake Street, West Branch DuPage River	0/11	0/11	0/12	0/12	0/11	0/10	0/10	1/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/7	0/10	0/10	0/9	1/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	1/12	0/9	0/12	0/12	0/10	1/12
18 Devon Avenue, Salt Creek	0/12	0/12	1/12	0/10	0/12	0/12	0/10	1/12
24 Wolf Road, Salt Creek	0/12	0/11	0/11	0/11	0/12	0/10	0/11	1/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/9	0/4	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/3	0/12	0/10	0/11	1/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	1/11	0/10	0/11	1/12
78 Wille Road, Higgins Creek	0/11	0/11	0/12	0/11	0/12	0/11	0/11	1/12
12 Lake-Cook Road, Buffalo Creek	0/6	0/7	0/8	0/6	1/11	0/10	0/10	1/11
13 Lake-Cook Road, Des Plaines River	0/11	0/11	0/12	0/10	0/12	0/12	0/10	1/12
17 Oakton Steet, Des Plaines River	0/11	0/11	0/10	0/10	0/12	0/10	0/11	1/12
19 Belmont Avenue, Des Plaines River	0/11	1/11	0/12	0/10	0/12	0/10	0/11	1/12
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/7	0/10	0/12	0/10	0/11	1/12
22 Ogden Avenue, Des Plaines River	0/12	0/10	0/5	0/10	0/12	0/10	0/11	1/12
23 Willow Springs Road, Des Plaines River	0/12	0/10	0/10	0/9	0/12	0/10	0/11	1/12
29 Stephen Street, Des Plaines River	0/12	0/10	0/11	0/11	0/12	0/9	0/11	1/12
91 Material Service Road, Des Plaines River	0/12	0/10	0/12	0/11	1/52	0/48	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-4: pH VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/5	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/9	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/8	0/7	0/11	0/9	0/10	0/12
104 Glenview Road, North Branch Chicago River	2/12	0/12	0/3	0/7	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	2/11	0/10	0/7	0/7	0/11	0/9	0/10	0/12
105 Frontage Road, Skokie River	2/12	0/12	0/11	0/10	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/10	0/12	0/10	0/11	0/12
96 Albany Avenue, North Branch Chicago River	2/11	0/11	0/10	0/11	1/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	1/9	0/6	0/9	0/8	1/9	2/9
102 Oakton Street, North Shore Channel	1/12	0/11	1/10	0/10	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/11	0/12	0/12	0/11	1/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/11	0/11	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	2/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	1/12	0/11	2/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	1/10	0/12	0/11	0/12	0/10	1/12
100 Wells Street, Chicago River	1/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/12	1/11	1/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/11	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/11	1/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/10	3/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/11	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/11	0/12	0/12	1/12	2/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/12	0/12	0/12	0/10	1/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	1/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/10	1/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1/51	0/50	0/52	0/46	2/52	2/48	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	1/10	0/12	0/10	0/14	1/11	3/20	1/24
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/10	0/11	1/10	0/11	1/12
55 130th Street, Calumet River	0/11	0/11	0/10	1/10	0/12	0/9	1/18	2/24
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/9	0/10	0/9	0/10	1/12
56 Indiana Avenue, Little Calumet River	1/9	0/9	0/11	0/12	0/10	1/10	1/19	3/23
76 Halsted Street, Little Calumet River	1/12	0/12	0/11	0/12	0/14	0/12	1/19	2/24
52 Wentworth Avenue, Little Calumet River	1/10	0/9	0/10	0/11	0/11	0/9	0/10	0/12
54 Joe Orr Road, Thorn Creek	0/8	0/6	0/3	0/7	0/12	1/12	2/11	1/12
97 170th Street, Thorn Creek	1/11	0/11	0/10	0/12	1/9	ND	ND	ND
57 Ashland Avenue, Little Calumet River	2/11	0/10	0/10	0/11	0/10	1/11	1/11	1/12
58 Ashland Avenue, Calumet Sag Channel	1/12	0/12	0/12	0/11	0/14	0/12	1/20	2/16
59 Cicero Avenue, Calumet Sag Channel	1/12	0/12	0/11	0/10	0/14	0/12	1/20	4/24
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/10	0/14	0/12	1/20	3/24
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/8	0/11	0/7	0/8	1/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/8	2/8
89 Walnut Lane, West Branch DuPage River	0/12	0/10	0/11	0/12	0/12	1/12	0/9	0/12
64 Lake Street, West Branch DuPage River	0/11	0/11	0/12	0/12	0/11	1/10	1/9	2/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/7	0/10	1/10	2/8	2/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/9	0/12	1/12	0/9	1/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	1/12	1/12	0/9	0/12
24 Wolf Road, Salt Creek	0/12	0/11	0/11	0/11	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/9	0/4	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/3	0/12	0/10	1/11	0/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	1/11	0/12
78 Wille Road, Higgins Creek	1/11	0/11	0/12	0/11	0/12	0/11	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/6	0/7	0/8	0/6	0/11	3/10	1/9	4/11
13 Lake-Cook Road, Des Plaines River	2/11	0/11	0/12	1/10	0/12	1/12	0/9	3/12
17 Oakton Steet, Des Plaines River	1/11	0/11	0/10	0/10	0/12	0/10	1/11	0/12
19 Belmont Avenue, Des Plaines River	1/11	0/11	0/12	0/10	0/11	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	1/11	0/11	0/7	0/10	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	0/12	0/10	0/5	1/10	0/12	0/10	3/11	0/12
23 Willow Springs Road, Des Plaines River	0/12	0/10	0/10	0/9	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	0/12	0/10	0/11	0/11	0/12	0/9	1/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/10	0/12	0/11	3/50	2/48	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-5: CHLORIDE VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	1/2	1/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	2/4	3/8	0/3	1/6	1/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	5/10	0/9	1/8	1/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/9	0/9	0/10	0/11	0/10	1/11	0/12
104 Glenview Road, North Branch Chicago River	1/12	1/11	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	2/11	0/9	0/9	0/10	0/11	2/10	1/11	0/12
105 Frontage Road, Skokie River	0/12	0/11	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	2/11	1/11	0/11	0/12	1/12	1/11	1/11	0/12
96 Albany Avenue, North Branch Chicago River	1/11	0/10	0/10	1/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/8	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/11	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	0/12	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1/11	0/10	0/10	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	1/11	0/11	0/10	1/9	0/11	0/7	0/10	1/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	1/9	0/8
89 Walnut Lane, West Branch DuPage River	0/12	1/11	1/11	1/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	1/12	0/12	1/12	1/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	2/9	2/11	1/9	1/8	3/10	2/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	2/12	1/12	1/12	0/10	0/12	1/12	0/11	0/12
18 Devon Avenue, Salt Creek	2/12	1/12	1/12	0/10	1/12	1/12	0/11	0/12
24 Wolf Road, Salt Creek	1/12	1/11	2/12	1/12	1/12	1/10	0/11	1/6
109 Brookfield Avenue, Salt Creek	1/12	1/11	1/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	1/3	1/12	1/10	0/11	1/12
77 Elmhurst Road, Higgins Creek	2/4	3/6	1/5	2/6	3/11	2/10	3/11	3/12
78 Wille Road, Higgins Creek	1/12	0/11	1/12	1/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	1/7	0/7	1/8	0/7	2/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/12	1/11	0/12
17 Oakton Steet, Des Plaines River	1/12	0/11	0/10	1/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	0/12	0/11	1/12	1/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	1/12	0/11	0/7	2/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	1/12	0/11	0/5	2/12	0/12	0/10	0/11	1/12
23 Willow Springs Road, Des Plaines River	1/12	0/11	0/10	1/10	0/12	0/10	0/11	1/12
29 Stephen Street, Des Plaines River	1/12	1/11	0/11	2/12	0/12	0/10	0/11	1/12
91 Material Service Road, Des Plaines River	1/12	1/11	0/12	1/12	2/52	2/50	ND	ND
110 Springinguth Road, West Branch DuPage River	3/11	1/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-6: AMMONIUM NITROGEN VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	1/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	1/12
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	2/12
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	2/12
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	2/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	1/12
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	3/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	1/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	1/12
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	1/12
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	1/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/20	0/24
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/18	0/24
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	0/12
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	1/23
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	0/24
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	0/12	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	1/16
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	0/24
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	3/24
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/3	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/52	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-7: UN-IONIZED AMMONIA VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	0/5	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	0/9	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	0/7	0/11	0/9	0/10	0/12
104 Glenview Road, North Branch Chicago River	ND	ND	ND	0/7	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	0/7	0/11	0/9	0/10	0/12
105 Frontage Road, Skokie River	ND	ND	ND	0/10	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	0/11	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	0/6	0/9	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	ND	ND	ND	0/10	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/11	0/12	1/12	1/11	1/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/11	0/11	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	1/12	0/12	0/11	0/12	1/12	2/11	2/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	1/12	0/11	2/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/11	0/12	0/12	0/11	2/12
74 Lake Shore Drive, Chicago River	ND	ND	ND	0/12	0/11	0/12	0/10	0/12
100 Wells Street, Chicago River	ND	ND	ND	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/12	1/11	1/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/11	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/11	1/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	1/10	3/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/11	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1/12	0/12	0/11	1/11	0/12	0/12	1/12	1/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/11	0/12	0/12	0/12	0/10	1/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	1/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/10	1/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/49	0/50	0/46	0/52	1/48	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	0/10	0/11	0/11	0/19	0/24
50 Burnham Avenue, Wolf Lake	ND	ND	ND	0/10	0/10	0/10	0/11	0/12
55 130th Street, Calumet River	ND	ND	ND	0/10	0/10	0/9	0/17	0/24
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	1/10	1/9	0/9	2/9	1/10	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/8	0/11	0/12	0/8	1/10	0/18	1/23
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/11	0/18	0/24
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	0/11	0/11	0/9	0/10	0/12
54 Joe Orr Road, Thorn Creek	ND	ND	ND	0/7	0/12	0/11	0/11	0/12
97 170th Street, Thorn Creek	ND	ND	ND	0/11	0/9	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	0/11	0/10	0/10	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/11	0/12	0/11	1/19	1/16
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/9	0/12	0/11	0/19	0/24
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/10	0/12	0/11	1/19	3/24
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	0/8	0/11	0/7	0/8	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/4	0/9	0/8	0/8
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	0/12	0/12	1/12	0/9	0/12
64 Lake Street, West Branch DuPage River	ND	ND	ND	0/12	0/11	1/10	0/9	0/12
79 Higgins Road, Salt Creek	ND	ND	ND	0/7	0/10	1/10	0/8	0/10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	0/9	0/12	1/12	0/9	0/12
18 Devon Avenue, Salt Creek	ND	ND	ND	0/10	0/12	1/12	0/9	0/12
24 Wolf Road, Salt Creek	ND	ND	ND	0/11	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	ND	ND	ND	0/4	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/3	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	ND	ND	ND	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	ND	ND	ND	0/11	0/12	0/11	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	0/6	0/11	0/10	0/9	0/11
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	0/10	0/12	0/12	0/9	0/12
17 Oakton Steet, Des Plaines River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	ND	ND	ND	0/9	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	ND	ND	ND	0/11	0/12	0/9	0/11	0/12
91 Material Service Road, Des Plaines River	ND	ND	ND	0/11	0/50	0/48	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-8: TOTAL DISSOLVED SOLIDS VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	1/2	1/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	2/4	4/8	0/3	3/6	1/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	6/10	3/10	1/8	3/11	1/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	3/10	0/10	1/9	0/10	0/11	3/10	1/11	0/12
104 Glenview Road, North Branch Chicago River	1/12	1/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	5/11	0/10	1/9	0/10	2/11	4/10	1/11	1/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	1/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	3/11	1/12	2/11	1/12	2/12	4/11	1/11	1/12
96 Albany Avenue, North Branch Chicago River	4/11	0/11	0/10	1/12	2/12	1/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	1/12	1/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	1/12	1/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1/52	0/52	0/52	0/50	1/53	1/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	1/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/9	3/10	1/11	0/11	3/11	2/11	0/12
54 Joe Orr Road, Thorn Creek	5/8	6/7	1/3	7/7	10/12	6/12	7/12	8/12
97 170th Street, Thorn Creek	9/11	6/11	7/10	9/12	2/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	2/11	4/10	5/10	4/12	2/10	6/11	4/11	4/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	3/11	1/11	1/10	1/9	0/11	0/7	0/10	1/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	1/4	1/9	3/9	2/8
89 Walnut Lane, West Branch DuPage River	0/12	2/11	2/11	1/12	1/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	1/12	1/12	1/12	1/12	1/11	0/11	0/11	1/12
79 Higgins Road, Salt Creek	4/9	5/11	1/9	1/8	3/10	3/10	2/10	2/10
80 Arlington Heights Road, Salt Creek	2/12	1/12	1/12	1/10	2/12	1/12	1/11	1/12
18 Devon Avenue, Salt Creek	4/12	1/12	1/12	0/10	1/12	2/12	1/11	1/12
24 Wolf Road, Salt Creek	3/12	1/11	2/12	2/12	2/12	2/10	1/11	3/6
109 Brookfield Avenue, Salt Creek	3/12	1/11	1/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	3/3	2/12	2/10	1/11	3/12
77 Elmhurst Road, Higgins Creek	2/4	3/6	1/5	2/6	3/11	3/10	3/11	4/12
78 Wille Road, Higgins Creek	1/12	0/11	1/12	2/12	1/12	2/12	0/11	2/12
12 Lake-Cook Road, Buffalo Creek	5/7	1/7	1/8	0/7	2/11	2/10	0/11	2/11
13 Lake-Cook Road, Des Plaines River	1/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	1/12	0/11	0/10	1/11	1/12	0/10	0/11	1/12
19 Belmont Avenue, Des Plaines River	1/12	2/11	1/12	2/12	1/12	0/10	0/11	1/12
20 Roosevelt Road, Des Plaines River	1/12	1/11	0/7	2/12	1/12	0/10	0/11	1/12
22 Ogden Avenue, Des Plaines River	1/12	1/11	0/5	2/12	1/12	1/10	0/11	1/12
23 Willow Springs Road, Des Plaines River	2/12	1/11	1/10	1/10	1/12	0/10	0/11	1/12
29 Stephen Street, Des Plaines River	2/12	1/11	0/11	2/12	1/12	1/10	0/11	1/12
91 Material Service Road, Des Plaines River	2/12	1/11	0/12	1/12	4/52	7/50	ND	ND
110 Springinguth Road, West Branch DuPage River	6/11	5/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-9: PHENOLS VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/8	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/11	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/50	0/54	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/10	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	0/12	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/11	0/6	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/7
89 Walnut Lane, West Branch DuPage River	0/12	0/10	0/11	0/12	0/12	0/11	0/11	0/10
64 Lake Street, West Branch DuPage River	0/12	0/11	0/12	0/12	0/11	0/11	0/11	0/11
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/10	0/10	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/10
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/11
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/3	0/12	0/10	0/11	0/10
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/10
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	0/7	0/11	0/10	0/11	0/10
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/11
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/12	0/10	0/11	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/11
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/12	0/10	0/11	0/11
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/5	0/12	0/12	0/10	0/11	0/11
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	0/10	0/12	0/10	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/12	0/10	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/52	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-10: SULFATE VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/11	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	0/11	0/11	0/11	0/10	0/12
54 Joe Orr Road, Thorn Creek	4/8	5/7	1/3	6/7	8/12	2/12	3/12	4/12
97 170th Street, Thorn Creek	4/11	4/11	6/10	6/12	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1/11	0/10	1/10	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/12	0/12	0/11	0/11
64 Lake Street, West Branch DuPage River	0/12	0/11	0/12	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/3	0/11	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/11
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/52	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-11: FATS, OILS, AND GREASES VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/10	ND	ND	0/3
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/9	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/10	ND	ND	0/3
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	2/10	ND	ND	0/2
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/10	ND	ND	0/2
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/10	0/12	0/10	ND	ND	0/2
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	1/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	ND	ND	0/2
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/11	0/12	0/10	ND	ND	0/2
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/10	ND	ND	0/2
42 Route 83, Chicago Sanitary & Ship Canal	0/11	1/12	0/11	0/12	0/10	ND	ND	0/2
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	1/12	0/11	0/12	0/10	ND	ND	0/2
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	2/49	0/50	1/45	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	1/10	0/11	0/9	ND	ND	0/3
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	ND	ND	0/3
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/10	ND	ND	0/3
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/10	ND	ND	0/3
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/10	ND	ND	0/3
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-12: TOTAL CYANIDE VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/50	0/54	0/48	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/10	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-13: WEAK ACID DISSOCIABLE CYANIDE VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/10	0/10	0/9	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/11	0/12	0/11	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	0/11	0/11	1/11	2/11	0/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	0/12	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/8	0/8	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/12	0/11	0/10	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	0/10	0/10	0/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/9	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/11	0/11	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/11	0/11	0/12
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/12	0/9	0/10	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/3	0/12	0/9	0/10	0/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/9	0/11	0/12
78 Wille Road, Higgins Creek	0/12	0/11	0/12	0/11	0/12	0/11	1/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	0/7	0/11	0/9	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/11	1/11	0/12
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/10	0/12	0/9	1/11	0/12
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/11	0/12	0/9	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/11	0/12	0/9	0/11	0/12
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	0/12	0/12	0/9	0/10	0/12
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	0/10	0/12	0/9	0/10	0/12
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/12	0/9	0/10	0/12
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/52	0/48	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-14: FLUORIDE VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/49	0/48
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/50	0/54	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/11	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	7/11	4/9	6/10	10/11	11/11	7/11	4/11	2/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	1/12	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	3/11	2/10	2/10	8/12	4/10	5/11	0/11	2/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/11
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/11	0/7	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/6
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/12	0/12	0/11	0/10
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	0/11	0/11	1/10
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/10	0/10	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	1/10
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/10
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/5
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/3	0/12	0/10	0/11	0/10
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	0/11	0/10
78 Wille Road, Higgins Creek	0/12	0/11	1/12	0/12	0/12	0/12	0/11	0/10
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	0/7	0/11	0/10	0/11	0/9
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/10
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/12	0/10	0/11	0/10
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/10
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/12	0/10	0/11	0/10
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	0/12	0/12	0/10	0/11	0/10
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	0/10	0/12	0/10	0/11	0/10
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/12	0/10	0/11	0/10
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/52	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-15: FECAL COLIFORM VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	2/2	1/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	3/4	8/8	3/3	5/6	5/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	8/10	7/10	8/8	9/11	9/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	5/10	7/10	6/9	9/10	10/11	7/10	9/11	10/12
104 Glenview Road, North Branch Chicago River	9/12	11/12	2/3	7/9	7/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	7/11	9/10	7/9	6/10	11/11	8/10	11/11	10/12
105 Frontage Road, Skokie River	2/12	1/12	5/12	5/12	6/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	9/11	11/12	10/11	11/12	10/12	11/11	11/11	11/12
96 Albany Avenue, North Branch Chicago River	9/11	9/11	10/10	11/12	12/12	6/6	ND	ND
35 Central Street, North Shore Channel	1/8	5/9	3/9	6/9	5/9	5/9	2/10	3/9
102 Oakton Street, North Shore Channel	7/12	9/12	6/10	8/11	7/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	2/10	1/9	2/10	0/12	1/12	2/12	0/11	2/12
100 Wells Street, Chicago River	3/12	2/12	4/12	2/12	4/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	1/12
50 Burnham Avenue, Wolf Lake	2/12	1/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	2/10	0/12	3/11	2/11	1/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	10/11	8/9	9/10	10/11	11/11	10/11	10/11	11/12
54 Joe Orr Road, Thorn Creek	8/8	5/7	2/3	4/7	10/12	9/12	10/12	8/12
97 170th Street, Thorn Creek	11/11	10/11	7/10	6/12	9/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	10/11	9/10	10/10	8/12	7/10	8/11	10/11	9/12
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	5/11	1/11	4/10	2/9	1/11	3/7	4/10	3/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	1/1	ND	4/4	8/9	6/9	5/8
89 Walnut Lane, West Branch DuPage River	10/12	7/11	9/11	8/12	8/12	8/12	6/11	6/12
64 Lake Street, West Branch DuPage River	10/12	7/12	9/12	9/12	10/11	8/11	7/11	7/12
79 Higgins Road, Salt Creek	3/9	1/11	4/9	2/8	1/10	5/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	6/12	6/12	7/12	5/10	6/12	8/12	3/11	5/12
18 Devon Avenue, Salt Creek	9/12	9/12	12/12	8/10	9/12	9/12	7/11	10/12
24 Wolf Road, Salt Creek	9/12	5/11	9/12	6/12	7/12	8/10	5/11	5/6
109 Brookfield Avenue, Salt Creek	10/12	9/11	10/10	4/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	3/3	10/12	9/10	9/11	8/12
77 Elmhurst Road, Higgins Creek	3/4	4/6	5/5	4/6	6/11	6/10	6/11	3/12
78 Wille Road, Higgins Creek	5/12	5/11	8/12	7/12	7/12	7/12	5/11	6/12
12 Lake-Cook Road, Buffalo Creek	3/7	2/7	5/8	4/7	4/11	4/10	3/11	4/11
13 Lake-Cook Road, Des Plaines River	6/12	2/11	6/12	2/12	4/12	6/12	5/11	5/12
17 Oakton Steet, Des Plaines River	7/12	5/11	5/10	4/11	5/12	6/10	8/11	5/12
19 Belmont Avenue, Des Plaines River	7/11	5/11	8/12	8/12	6/12	8/10	8/11	9/12
20 Roosevelt Road, Des Plaines River	8/12	6/11	4/7	7/12	6/12	8/10	9/11	11/12
22 Ogden Avenue, Des Plaines River	10/12	8/11	4/5	8/12	7/12	8/10	7/11	7/12
23 Willow Springs Road, Des Plaines River	6/12	4/11	8/10	3/10	5/12	8/10	5/11	5/12
29 Stephen Street, Des Plaines River	5/12	3/11	7/11	6/12	3/12	7/10	4/11	4/12
91 Material Service Road, Des Plaines River	5/12	2/11	9/12	2/12	23/52	19/50	ND	ND
110 Springinguth Road, West Branch DuPage River	9/11	8/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-16: GROSS BETA RADIOACTIVITY VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/4	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/9	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/9	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/9	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	0/10	0/9	ND	ND	ND
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/9	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/9	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/10	0/9	0/12	0/9	ND	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/7	0/9	0/10	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/9	0/11	0/9	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/9	0/12	0/10	ND	ND	ND
100 Wells Street, Chicago River	0/12	0/12	0/11	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/10	0/11	0/9	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/10	0/11	0/8	ND	ND	ND
55 130th Street, Calumet River	0/11	0/11	0/8	0/11	0/9	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/8	0/10	0/9	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/1	0/7	0/9	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/7	0/11	0/9	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/8	0/11	0/8	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/10	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/3	0/9	0/9	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/10	0/12	0/11	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/10	0/10	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/10	0/12	0/11	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/10	ND	ND	ND
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/10	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/3	0/10	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/9	0/10	0/11	ND
78 Wille Road, Higgins Creek	0/12	0/11	0/12	0/12	0/10	0/12	0/11	ND
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	0/7	0/9	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/10	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/10	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/12	0/10	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/10	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	0/12	0/10	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	0/10	0/10	ND	ND	ND
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/10	ND	ND	ND
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/43	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-17: BENZENE VIOLATION HISTORY
1998 THROUGH 2005¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	0/8	0/7	0/4	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	0/4	0/3	0/3	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	0/5	0/3	0/3	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	0/5	0/4	0/1	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	0/5	0/3	0/3	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	0/5	0/4	0/4	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	0/5	0/4	0/4	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	0/5	0/8	0/4	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	0/4	0/3	0/3	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	0/5	0/4	0/3	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/5	0/3	0/3	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	0/6	0/4	0/4	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/4	0/5	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	0/6	0/4	0/4	NA	NA	NA	NA	NA
55 130th Street, Calumet River	0/5	0/4	0/4	NA	NA	NA	NA	NA
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	0/5	0/2	0/3	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	0/4	0/3	NA	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	0/6	0/3	0/3	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	0/5	0/2	0/4	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/4	0/3	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	0/1	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	0/6	0/4	0/4	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	0/6	0/4	0/4	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	0/4	0/4	0/3	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	0/6	0/4	0/4	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	0/6	0/4	0/4	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	0/6	0/4	0/4	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	0/3	0/3	0/3	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	0/5	0/3	0/4	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	0/3	0/3	0/2	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	0/6	0/4	0/4	NA	NA	NA	NA	NA
17 Oakton Steet, Des Plaines River	0/6	0/4	0/3	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	0/6	0/4	0/4	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	0/6	0/4	0/2	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	0/6	0/4	0/1	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	0/6	0/4	0/3	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	0/6	0/4	0/3	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	0/6	0/4	0/4	NA	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	0/5	0/4	NA	NA	NA	NA	NA	NA

¹Based upon Human Health Standard in General Use Waters which became effective in december 2002
NA = Not Applicable

TABLE AII-18: BENZENE VIOLATION HISTORY
1998 THROUGH 2005¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/8	0/7	0/4	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/4	0/3	0/3	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/5	0/3	0/3	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/5	0/4	0/1	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/5	0/3	0/3	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/5	0/4	0/4	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/5	0/4	0/4	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/5	0/8	0/4	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/4	0/3	0/3	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/5	0/4	0/3	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/5	0/3	0/3	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/6	0/4	0/4	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/4	0/5	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/6	0/4	0/4	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/5	0/4	0/4	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/5	0/2	0/3	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/4	0/3	NA	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/6	0/3	0/3	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/5	0/2	0/4	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	NA	NA	NA	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/4	0/3	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	NA	NA	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/4	0/4	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/6	0/4	0/4	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/4	0/4	0/3	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	NA	NA	NA	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/3	0/3	0/3	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/5	0/3	0/4	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/3	0/3	0/2	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/6	0/4	0/2	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/6	0/4	0/1	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	0/5	0/4	NA	ND	ND	ND	ND	ND

¹Based upon in General Use Water quality standards
NA = Not Applicable
ND = No Data

TABLE AII-19: ETHYLBENZENE VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/8	0/7	0/4	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/4	0/3	0/3	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/5	0/3	0/3	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/5	0/4	0/1	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/5	0/3	0/3	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/5	0/4	0/4	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/5	0/4	0/4	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/5	0/8	0/4	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/4	0/3	0/3	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/5	0/4	0/3	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/5	0/3	0/3	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/6	0/4	0/4	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/4	0/5	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/6	0/4	0/4	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/5	0/4	0/4	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/5	0/2	0/3	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/4	0/3	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/6	0/3	0/3	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/5	0/2	0/4	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/4	0/3	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/4	0/4	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/6	0/4	0/4	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/4	0/4	0/3	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/3	0/3	0/3	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/5	0/3	0/4	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/3	0/3	0/2	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/6	0/4	0/2	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/6	0/4	0/1	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/5	0/4	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-20: TOLUENE VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/8	0/7	0/4	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/4	0/3	0/3	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/5	0/3	0/3	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/5	0/4	0/1	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/5	0/3	0/3	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/5	0/4	0/4	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/5	0/4	0/4	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/5	0/8	0/4	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/4	0/3	0/3	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/5	0/4	0/3	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/5	0/3	0/3	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/6	0/4	0/4	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/4	0/5	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/6	0/4	0/4	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/5	0/4	0/4	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/5	0/2	0/3	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/4	0/3	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/6	0/3	0/3	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/5	0/2	0/4	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/4	0/3	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/4	0/4	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/6	0/4	0/4	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/4	0/4	0/3	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/3	0/3	0/3	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/5	0/3	0/4	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/3	0/3	0/2	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/6	0/4	0/2	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/6	0/4	0/1	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/5	0/4	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-21: XYLENE VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/8	0/7	0/4	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/4	0/3	0/3	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/5	0/3	0/3	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/5	0/4	0/1	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/5	0/3	0/3	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/5	0/4	0/4	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/5	0/4	0/4	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/5	0/8	0/4	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/4	0/3	0/3	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/5	0/4	0/3	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/5	0/3	0/3	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/6	0/4	0/4	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/5	0/4	0/5	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/6	0/4	0/4	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/5	0/4	0/4	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/5	0/2	0/3	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/4	0/3	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/6	0/3	0/3	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/5	0/2	0/4	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/4	0/3	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/4	0/4	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/6	0/4	0/4	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/4	0/4	0/3	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/6	0/4	0/4	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/3	0/3	0/3	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/5	0/3	0/4	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/3	0/3	0/2	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/6	0/4	0/2	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/6	0/4	0/1	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/6	0/4	0/3	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/6	0/4	0/4	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/5	0/4	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-22: TOTAL SILVER VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	1/11	1/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	2/10	0/11	1/10	1/11	1/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	1/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	1/10	0/11	1/10	0/11	1/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	1/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	1/12	1/12	0/11	1/11	2/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	1/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/11	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	3/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/11	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	2/12	0/12	2/12	0/12	2/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	1/12	0/11	0/12	0/12	2/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	1/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	3/11	0/11	2/11	0/11	2/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	1/7	0/12	1/12	0/12	2/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	2/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	1/12	0/10	2/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	1/9	0/11	0/7	0/10	1/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	1/11	0/11	1/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	1/8	0/10	0/10	0/10	1/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	1/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	0/12	0/11	0/12	1/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	1/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	2/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	1/12	1/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	1/12	0/12	0/10	1/11	0/12
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	1/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	1/51	2/50	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-23: TOTAL ARSENIC VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	ND	ND	ND	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	ND	ND	ND	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	ND	ND	ND	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	ND	ND	ND	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	ND	ND	ND	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	ND	ND	ND	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	ND	ND	ND	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	ND	ND	ND	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	ND	ND	ND	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	ND	ND	ND	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	ND	ND	ND	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	ND	ND	ND	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	ND	ND	ND	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-24: TOTAL BARIUM VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-25: TOTAL BORON VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	0/12	0/11	0/11	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/7	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/9	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	0/12	0/11	0/10	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-26: TOTAL CADMIUM VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	0/10	1/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	ND	ND	ND	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	ND	ND	ND	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	ND	ND	ND	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	ND	ND	ND	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	ND	ND	ND	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	ND	ND	ND	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	ND	ND	ND	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	ND	ND	ND	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	ND	ND	ND	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	ND	ND	ND	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	ND	ND	ND	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	ND	ND	ND	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	ND	ND	ND	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-27: TOTAL COPPER VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	ND	ND	ND	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	ND	ND	ND	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	0/12	0/12	1/6	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	4/9	1/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	ND	ND	ND	2/11	1/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	ND	ND	ND	1/12	0/12	1/12	0/11	0/12
100 Wells Street, Chicago River	ND	ND	ND	2/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	1/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	1/12	0/12	1/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	ND	ND	ND	1/12	2/11	1/12	0/12	0/12
55 130th Street, Calumet River	ND	ND	ND	1/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	0/11	0/11	1/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	ND	ND	ND	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	ND	ND	ND	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	ND	ND	ND	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	0/10	1/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	ND	ND	ND	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	ND	ND	ND	1/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	ND	ND	ND	2/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	ND	ND	ND	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	ND	ND	ND	1/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	ND	ND	ND	1/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	ND	ND	ND	1/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	ND	ND	ND	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-28: TOTAL CHROMIUM VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	ND	ND	ND	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	ND	ND	ND	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	ND	ND	ND	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	ND	ND	ND	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	ND	ND	ND	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	ND	ND	ND	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	ND	ND	ND	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	ND	ND	ND	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	ND	ND	ND	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	ND	ND	ND	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	ND	ND	ND	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	ND	ND	ND	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	ND	ND	ND	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	ND	ND	ND	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	ND	ND	ND	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	ND	ND	ND	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-29: TOTAL HEXAVALENT CHROMIUM VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/12	0/12	0/12	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/11	0/11	0/10	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/9	0/11	0/9	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/12	0/11	0/12	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/11	0/12	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	1/12	0/11	0/12	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	1/12	0/11	0/7	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	1/12	0/11	0/10	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-30: TOTAL IRON VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	2/2	1/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	2/6	4/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	5/11	5/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	3/10	9/11	0/10	1/11	0/12
104 Glenview Road, North Branch Chicago River	ND	ND	ND	1/9	1/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	1/10	3/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	ND	ND	ND	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	4/12	5/12	0/11	1/11	0/12
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	5/12	1/12	0/6	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	ND	ND	ND	0/11	1/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	1/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	ND	ND	ND	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	1/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	6/50	9/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	1/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	0/12	1/12	1/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	ND	ND	ND	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	2/10	1/9	3/10	1/11	0/10	0/11	0/11	1/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	1/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	10/11	8/11	8/11	4/11	8/12
54 Joe Orr Road, Thorn Creek	ND	ND	ND	0/7	2/12	2/12	0/12	1/12
97 170th Street, Thorn Creek	ND	ND	ND	3/11	9/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	4/12	8/10	1/11	2/11	2/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	1/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	1/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	1/11	0/12	1/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	3/9	2/11	1/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	4/4	2/9	1/9	2/8
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	1/12	1/12	0/12	1/11	0/12
64 Lake Street, West Branch DuPage River	ND	ND	ND	2/12	5/11	2/11	0/11	0/12
79 Higgins Road, Salt Creek	ND	ND	ND	6/8	5/10	4/10	1/10	1/10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	0/10	1/12	0/12	1/11	0/12
18 Devon Avenue, Salt Creek	ND	ND	ND	0/10	2/12	1/12	2/11	0/12
24 Wolf Road, Salt Creek	ND	ND	ND	2/12	5/12	0/10	1/11	0/6
109 Brookfield Avenue, Salt Creek	ND	ND	ND	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	2/12	1/10	0/11	1/12
77 Elmhurst Road, Higgins Creek	ND	ND	ND	3/6	6/11	1/10	3/11	2/12
78 Wille Road, Higgins Creek	ND	ND	ND	1/12	1/12	0/12	0/11	1/12
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	4/7	3/11	4/10	3/11	0/11
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	5/12	6/12	2/12	1/11	1/12
17 Oakton Steet, Des Plaines River	ND	ND	ND	2/11	4/12	2/10	1/11	0/12
19 Belmont Avenue, Des Plaines River	ND	ND	ND	2/12	4/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	ND	ND	ND	3/12	1/12	1/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	ND	ND	ND	3/12	2/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	ND	ND	ND	0/10	8/12	1/10	0/11	0/12
29 Stephen Street, Des Plaines River	ND	ND	ND	2/12	9/12	1/10	0/11	1/12
91 Material Service Road, Des Plaines River	ND	ND	ND	4/12	31/51	7/50	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-31: TOTAL LEAD VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	ND	ND	ND	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	ND	ND	ND	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	ND	ND	ND	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	1/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	1/12	0/12	1/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	1/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	ND	ND	ND	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	1/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	ND	ND	ND	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	ND	ND	ND	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	ND	ND	ND	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	1/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	ND	ND	ND	0/8	1/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	ND	ND	ND	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	ND	ND	ND	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	ND	ND	ND	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	ND	ND	ND	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	ND	ND	ND	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-32: TOTAL NICKEL VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	ND	ND	ND	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	ND	ND	ND	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	ND	ND	ND	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	ND	ND	ND	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	ND	ND	ND	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	ND	ND	ND	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	ND	ND	ND	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	ND	ND	ND	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	ND	ND	ND	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	ND	ND	ND	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	ND	ND	ND	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	ND	ND	ND	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	ND	ND	ND	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-33: TOTAL MANGANESE VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/11	0/10	1/11	0/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	1/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	1/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/51	0/49	ND	ND
110 Springinguth Road, West Branch DuPage River	1/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-34: TOTAL MERCURY VIOLATION HISTORY
1998 THROUGH 2005¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	NA
106 Dundee Road, West Fork North Branch Chicago River	0/4	4/8	0/3	NA	NA	NA	NA	NA
103 Golf Road, West Fork North Branch Chicago River	5/10	4/10	2/8	NA	NA	NA	NA	NA
31 Lake-Cook Road, Middle Fork North Branch	2/10	3/10	2/9	NA	NA	NA	NA	NA
104 Glenview Road, North Branch Chicago River	6/12	5/12	1/3	NA	NA	NA	NA	NA
32 Lake-Cook Road, Skokie River	3/11	5/10	2/9	NA	NA	NA	NA	NA
105 Frontage Road, Skokie River	5/12	5/12	4/12	NA	NA	NA	NA	NA
34 Dempster Street, North Branch Chicago River	4/11	6/12	2/11	NA	NA	NA	NA	NA
96 Albany Avenue, North Branch Chicago River	4/11	2/11	2/10	NA	NA	NA	NA	NA
35 Central Street, North Shore Channel	1/8	0/9	1/9	NA	NA	NA	NA	NA
102 Oakton Street, North Shore Channel	3/12	6/12	0/10	NA	NA	NA	NA	NA
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	NA
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
74 Lake Shore Drive, Chicago River	0/10	4/9	3/10	NA	NA	NA	NA	NA
100 Wells Street, Chicago River	3/12	3/12	3/12	NA	NA	NA	NA	NA
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	NA
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	NA
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	2/10	2/12	NA	NA	NA	NA	NA
50 Burnham Avenue, Wolf Lake	1/12	3/12	5/12	NA	NA	NA	NA	NA
55 130th Street, Calumet River	3/11	2/11	2/10	NA	NA	NA	NA	NA
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	NA
52 Wentworth Avenue, Little Calumet River	5/11	2/9	3/10	NA	NA	NA	NA	NA
54 Joe Orr Road, Thorn Creek	2/8	0/7	1/3	NA	NA	NA	NA	NA
97 170th Street, Thorn Creek	5/11	3/11	3/10	NA	NA	NA	NA	NA
57 Ashland Avenue, Little Calumet River	4/11	3/10	4/10	NA	NA	NA	NA	NA
58 Ashland Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
59 Cicero Avenue, Calumet Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
43 Route 83, Calumet Sag Channel	NA	NA	NA	NA	NA	NA	NA	NA
Des Plaines River System								
90 Route 19, Poplar Creek	3/11	4/11	2/10	NA	NA	NA	NA	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	0/1	NA	NA	NA	NA	NA
89 Walnut Lane, West Branch DuPage River	2/12	4/11	1/11	NA	NA	NA	NA	NA
64 Lake Street, West Branch DuPage River	2/12	3/12	4/12	NA	NA	NA	NA	NA
79 Higgins Road, Salt Creek	1/9	1/11	4/9	NA	NA	NA	NA	NA
80 Arlington Heights Road, Salt Creek	2/12	2/12	3/12	NA	NA	NA	NA	NA
18 Devon Avenue, Salt Creek	2/12	4/12	2/12	NA	NA	NA	NA	NA
24 Wolf Road, Salt Creek	2/12	2/11	3/12	NA	NA	NA	NA	NA
109 Brookfield Avenue, Salt Creek	0/11	7/11	2/10	NA	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	0/4	2/6	2/5	NA	NA	NA	NA	NA
78 Wille Road, Higgins Creek	2/12	3/11	3/12	NA	NA	NA	NA	NA
12 Lake-Cook Road, Buffalo Creek	1/7	2/7	3/8	NA	NA	NA	NA	NA
13 Lake-Cook Road, Des Plaines River	1/12	3/11	3/12	NA	NA	NA	NA	NA
17 Oakton Steet, Des Plaines River	2/12	2/11	4/10	NA	NA	NA	NA	NA
19 Belmont Avenue, Des Plaines River	0/12	4/11	3/12	NA	NA	NA	NA	NA
20 Roosevelt Road, Des Plaines River	2/12	3/11	3/7	NA	NA	NA	NA	NA
22 Ogden Avenue, Des Plaines River	2/12	2/11	1/5	NA	NA	NA	NA	NA
23 Willow Springs Road, Des Plaines River	2/12	1/11	3/10	NA	NA	NA	NA	NA
29 Stephen Street, Des Plaines River	2/12	2/11	2/11	NA	NA	NA	NA	NA
91 Material Service Road, Des Plaines River	2/12	2/11	2/12	NA	NA	NA	NA	NA
110 Springinsguth Road, West Branch DuPage River	3/11	3/10	NA	NA	NA	NA	NA	NA

¹Based upon Human Health Standard in General Use Waters which became effective in december 2002
NA = Not Applicable

TABLE AII-35: TOTAL MERCURY VIOLATION HISTORY
1998 THROUGH 2005¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	NA	NA	NA	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	NA	NA	NA	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	NA	NA	NA	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	NA	NA	NA	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	NA	NA	NA	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	NA	NA	NA	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1/10	0/9	0/9	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/11	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	NA	NA	NA	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	NA	NA	NA	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	0/9	0/11	0/7	0/10	1/11
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	0/12	0/12	0/12	0/11	1/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	NA	NA	NA	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	NA	NA	NA	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	NA	NA	NA	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	NA	NA	NA	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	NA	NA	NA	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	NA	NA	NA	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	NA	NA	NA	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	NA	NA	NA	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	NA	NA	NA	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	NA	NA	NA	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	NA	NA	NA	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	NA	NA	NA	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	NA	NA	NA	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	NA	NA	NA	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	NA	NA	NA	0/12	0/51	0/50	ND	ND
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	ND	ND	ND	ND	ND

¹Based upon Secondary Contact Water quality standards which became effective in December 2002
NA = Not Applicable
ND = No Data

TABLE AII-36: TOTAL ZINC VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	ND	ND	ND	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	ND	ND	ND	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	ND	ND	ND	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	ND	ND	ND	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	ND	ND	ND	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	ND	ND	ND	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	ND	ND	ND	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	ND	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	ND	ND	ND	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	ND	ND	ND	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	ND	ND	ND	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	ND	ND	ND	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	ND	ND	ND	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	ND	ND	ND	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	ND	ND	ND	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	ND	ND	ND	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	ND	ND	ND	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	ND	ND	ND	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-37: TOTAL SELENIUM VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	0/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	0/11	0/11	0/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	0/11	0/11	0/11	0/11	0/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/12	0/12	0/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	0/12	0/10	0/11	0/11	0/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-38: SOLUBLE ARSENIC VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/12	0/12	0/12	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/11	0/11	0/10	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/9	0/11	0/9	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/12	0/11	0/12	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/10	0/12	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-39: SOLUBLE CADMIUM VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/12	0/12	0/12	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/11	0/11	0/10	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/9	0/11	0/9	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/12	0/11	0/12	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/10	0/12	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-40: SOLUBLE COPPER VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/12	0/12	0/12	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/11	1/11	0/10	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/9	0/11	0/9	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/12	0/11	0/12	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/10	0/12	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-41: SOLUBLE CHROMIUM VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/12	0/12	0/12	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/11	0/11	0/10	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/9	0/11	0/9	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/12	0/11	0/12	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/10	0/12	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-42: SOLUBLE IRON VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0/2	0/1	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	0/6	0/5	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	0/11	0/10	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	0/10	0/11	0/10	0/11	0/12
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	0/9	0/10	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	0/10	0/11	0/10	0/11	0/12
105 Frontage Road, Skokie River	0/12	0/12	0/12	0/12	0/10	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	0/12	0/12	0/6	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	0/9	0/9	0/9	0/10	0/9
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	0/11	0/10	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/13	0/12	0/12	0/12	0/10	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	0/12	0/12	0/12	0/11	0/12
100 Wells Street, Chicago River	0/12	0/12	0/12	0/12	0/7	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
108 Loomis Street, South Branch Chicago River	0/10	0/12	0/12	0/12	0/9	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/12	0/12	0/10	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	ND	ND	0/9	0/11	0/12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0/12	0/10	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0/15	0/50	1/52
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/52	0/52	0/52	0/51	0/53	0/50	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	0/12	0/12	0/12	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	0/12	0/11	0/12	0/12	0/12
55 130th Street, Calumet River	0/11	0/11	0/10	0/12	0/11	0/11	0/11	0/12
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/10	0/9	0/10	0/11	0/10	1/11	0/11	1/12
56 Indiana Avenue, Little Calumet River	0/9	0/9	0/11	0/12	0/8	0/12	0/11	0/12
76 Halsted Street, Little Calumet River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	0/11	0/11	0/11	0/11	1/12
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	0/7	0/12	0/12	0/12	1/12
97 170th Street, Thorn Creek	0/11	0/11	0/10	0/11	0/10	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	0/12	0/10	0/11	0/11	1/12
58 Ashland Avenue, Calumet Sag Channel	0/12	0/12	0/12	0/12	0/12	0/12	0/11	0/8
59 Cicero Avenue, Calumet Sag Channel	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/12
43 Route 83, Calumet Sag Channel	0/11	0/10	0/11	0/12	0/12	0/12	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	0/9	0/11	0/7	0/10	0/11
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	0/4	0/9	0/9	0/8
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	0/12	0/12	0/12	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	0/11	0/11	0/12
79 Higgins Road, Salt Creek	0/9	0/11	0/9	0/8	0/10	0/10	0/10	0/10
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	0/10	0/12	0/12	0/11	0/12
24 Wolf Road, Salt Creek	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/6
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	0/6	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0/4	0/12	0/10	0/11	0/12
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	0/6	0/11	0/10	0/11	0/12
78 Wille Road, Higgins Creek	0/12	0/10	0/12	0/12	0/12	0/11	0/11	0/12
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	0/7	0/11	0/10	0/11	0/11
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/12	0/11	0/12
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	0/11	0/12	0/10	0/11	0/12
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	0/12	0/12	0/10	0/11	0/12
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	0/12	0/12	0/10	0/11	0/12
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	0/12	0/12	0/10	0/11	0/12
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	0/10	0/12	0/10	0/11	0/12
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	0/12	0/12	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	0/12	0/51	0/50	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-43: SOLUBLE LEAD VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/12	0/12	0/12	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/11	0/11	0/10	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/9	0/11	0/9	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/12	0/11	0/12	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/10	0/12	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-44: SOLUBLE NICKEL VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/12	0/12	0/12	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/11	0/12	0/10	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/11	0/11	0/10	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/11	0/11	0/11	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/9	0/11	0/9	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/12	0/11	0/12	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/10	0/12	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-45: SOLUBLE MERCURY VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	0/3	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/1	0/3	0/2	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	0/3	0/2	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	0/5	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/2	0/4	0/2	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/2	0/5	0/4	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/1	0/4	0/2	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/1	0/2	0/2	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/1	ND	0/1	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/1	0/5	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	0/3	0/4	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/1	0/3	0/3	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	0/1	0/1	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	0/2	0/5	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	0/2	ND	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/1	ND	0/2	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	0/1	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	0/3	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/3	0/2	0/3	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/2	0/4	0/1	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	0/3	0/1	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	0/3	0/4	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	0/1	0/3	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/2	0/2	0/2	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/2	0/3	0/1	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	0/2	0/3	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	0/5	0/1	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	0/2	0/1	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/1	0/2	0/3	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/1	0/1	0/2	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/1	0/3	0/2	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/1	0/1	0/4	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	0/3	0/4	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	0/3	0/2	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	0/2	0/1	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/1	0/1	0/2	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	0/2	0/2	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/1	0/1	0/2	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/1	0/3	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-46: SOLUBLE ZINC VIOLATION HISTORY
1998 THROUGH 2005

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency Per Year							
	05	04	03	02	01	00	99	98
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0/4	0/8	0/3	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/10	0/10	0/8	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/9	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/3	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/11	0/10	0/9	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0/12	0/12	0/12	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/11	0/12	0/11	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0/11	0/11	0/10	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0/8	0/9	0/9	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0/12	0/12	0/10	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0/10	0/9	0/10	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0/12	0/12	0/12	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/11	0/10	0/12	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0/12	0/12	0/12	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0/11	0/11	0/10	ND	ND	ND	ND	ND
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0/11	0/9	0/10	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0/8	0/7	0/3	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0/11	0/10	0/10	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/10	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0/1	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/11	0/11	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0/9	0/11	0/9	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0/12	0/12	0/12	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0/12	0/11	0/12	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0/12	0/11	0/10	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/6	0/5	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0/12	0/10	0/12	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0/7	0/7	0/8	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0/12	0/11	0/7	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0/12	0/11	0/5	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0/12	0/11	0/10	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0/12	0/11	0/11	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0/12	0/11	0/12	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0/11	0/10	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-47: BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	4.00	2.00	2.89	3.50	3.30	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	1.00	2.00	2.56	1.56	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	8.00	3.33	3.30	3.45	2.30	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	11.00	6.42	7.58	6.58	6.90	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	8.00	5.92	5.42	6.58	4.90	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	10.00	5.67	5.25	4.92	4.10	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	6.00	3.25	3.25	3.00	3.80	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	2.00	3.17	2.67	1.83	4.00	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	1.33	2.70	2.08	0.80	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	3.00	2.17	3.25	2.33	1.57	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	4.00	2.92	3.91	2.58	2.50	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	3.00	2.92	4.25	2.92	1.89	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	6.08	3.73	4.83	4.80	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.00	2.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	3.75	4.60	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.00	3.75	4.67	2.58	2.20	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	5.00	3.17	3.33	2.25	2.90	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.00	2.83	2.75	2.58	2.90	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	3.00	1.83	2.50	1.25	1.67	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	6.60	6.20	5.29	7.10	6.19	4.41	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	3.14	1.50	1.65	1.74	2.82	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	ND	1.10	0.92	0.92	0.60	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	0.00	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	0.27	1.90	1.67	0.60	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	4.50	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	1.78	2.36	2.42	2.75	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	4.00	1.75	2.64	1.58	2.90	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	3.00	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	2.00	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	3.50	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	2.40	4.50	2.17	3.33	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	3.00	0.83	3.00	1.25	2.50	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	3.00	1.55	2.00	2.50	2.30	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	1.89	2.00	1.58	2.30	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-48: CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	3.000	1.857	1.778	2.364	2.300	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	1.000	1.667	1.111	0.222	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	2.083	1.444	1.909	2.000	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	4.000	2.500	2.250	2.000	2.200	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	2.000	1.917	1.750	2.333	1.300	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	4.000	1.667	2.500	2.083	1.400	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	2.000	1.333	1.167	1.333	1.200	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	1.500	1.500	0.917	0.500	0.500	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	1.111	2.800	1.500	0.500	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	3.000	1.583	1.667	1.636	0.000	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	2.000	1.417	2.000	1.417	1.100	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	1.250	2.583	1.500	0.889	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	3.083	1.583	2.250	3.500	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	2.000	1.417	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	1.750	1.400	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.000	1.667	0.833	0.750	1.300	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.000	1.500	1.333	0.500	1.300	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	2.000	0.500	1.250	0.583	1.100	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.583	1.167	0.500	1.000	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.714	0.608	0.519	0.400	0.000	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	ND	0.500	1.333	0.833	0.600	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	0.273	1.400	1.250	0.500	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	3.500	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	0.000	1.364	1.917	1.375	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	4.000	1.083	1.000	0.667	1.400	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	1.000	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	2.000	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	2.000	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	1.400	2.100	1.583	1.778	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	3.000	1.083	1.500	0.667	1.100	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	4.000	0.833	1.273	0.917	1.500	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	0.600	1.182	0.833	0.700	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-49: CHEMICAL OXYGEN DEMAND MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.3
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.0
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.7
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.5
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.7
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.8
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.6
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.4
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.0
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.8
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.7
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.2
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.4
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.8
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.8
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.3
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.6
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.3
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.8
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.3
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.0
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.2
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.5
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.0
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.4
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.6
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.0
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.3
Des Plaines River System												
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.8
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62.5
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	54.0
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	51.0
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38.6
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.5
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.8
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.8
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.0
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39.8
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37.2
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.3
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.0
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36.5
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45.0
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.7
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.2
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30.7
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.2
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-50: DISSOLVED OXYGEN MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	10.75	10.50	ND	ND	ND	8.73	7.51
106 Dundee Road, West Fork North Branch Chicago River	10.30	8.02	7.00	9.12	9.54	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.38	7.64	6.86	7.10	6.98	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	5.42	6.46	6.22	6.55	6.91	6.99	6.72	6.56	7.44	6.51	5.74
104 Glenview Road, North Branch Chicago River	8.12	8.03	7.47	8.08	7.36	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	7.75	7.73	6.67	7.14	7.65	7.25	6.59	7.56	7.49	7.91	6.63
105 Frontage Road, Skokie River	8.79	8.33	7.95	8.15	7.49	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	7.16	8.21	7.45	7.75	7.29	7.50	7.93	8.04	8.18	8.45	6.88
96 Albany Avenue, North Branch Chicago River	8.63	9.12	7.77	7.71	7.42	6.80	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	7.50	7.53	8.08	7.34	8.03	7.48	7.51	7.20	9.69	6.36	8.18
102 Oakton Street, North Shore Channel	7.95	7.26	6.32	6.58	5.80	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.98	8.10	7.54	6.90	7.39	7.24	7.43	7.31	7.85	7.35	6.45
101 Foster Avenue, North Shore Channel	7.30	7.58	7.42	6.53	6.87	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.03	7.55	7.14	6.74	7.13	6.68	6.75	7.04	7.36	6.82	6.37
73 Diversey Parkway, North Branch Chicago River	6.44	6.71	6.25	5.74	6.18	5.84	5.81	6.05	6.36	6.27	6.08
46 Grand Avenue, North Branch Chicago River	6.30	6.47	6.12	5.86	6.00	6.13	6.53	6.35	5.92	6.95	6.93
74 Lake Shore Drive, Chicago River	9.08	8.50	7.62	9.03	7.99	8.04	9.26	9.36	9.79	10.15	9.93
100 Wells Street, Chicago River	8.96	8.56	7.54	7.83	7.27	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	7.85	6.86	5.73	6.38	6.32	6.67	6.89	7.38	7.82	8.75	8.02
108 Loomis Street, South Branch Chicago River	7.78	7.23	5.97	5.86	5.79	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	6.65	5.63	5.29	3.91	2.62	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.59	6.71	5.68	ND	ND	5.43	6.19	7.00	7.48	8.21	7.08
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	5.60	5.34	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.11	5.77	5.18	5.18	5.28	4.98	5.99	6.21	7.16	6.85	7.00
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.29	6.92	6.81	6.95	6.60	6.52	7.16	7.13	6.96	7.16	6.97
42 Route 83, Chicago Sanitary & Ship Canal	5.90	6.06	5.85	6.09	5.46	5.46	5.76	5.90	6.23	6.35	6.10
48 Stephen Street, Chicago Sanitary & Ship Canal	6.25	6.25	5.78	5.73	5.38	5.40	5.63	6.03	6.07	6.40	5.84
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.86	5.67	5.57	5.32	5.34	5.65	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	9.99	9.24	9.73	9.65	8.99	9.44	9.81	9.36	10.17	9.53	9.99
50 Burnham Avenue, Wolf Lake	9.25	9.79	8.91	9.77	8.70	9.33	9.45	9.25	9.73	10.25	9.56
55 130th Street, Calumet River	9.26	9.13	8.27	9.17	8.41	8.43	8.97	8.56	8.95	8.97	9.92
86 Burnham Avenue, Grand Calumet River	4.80	4.93	3.94	6.22	4.19	4.43	5.14	5.63	5.25	3.19	3.55
56 Indiana Avenue, Little Calumet River	8.83	7.71	8.40	8.69	8.59	8.20	8.48	7.84	8.16	8.72	8.00
76 Halsted Street, Little Calumet River	6.98	7.13	7.00	6.92	6.69	6.60	6.69	6.60	6.53	7.35	6.29
52 Wentworth Avenue, Little Calumet River	6.45	6.40	6.53	6.47	6.20	6.52	6.23	6.91	6.47	6.08	6.43
54 Joe Orr Road, Thorn Creek	7.65	8.57	8.40	8.54	8.27	8.28	8.85	8.61	8.03	8.36	8.58
97 170th Street, Thorn Creek	7.85	8.37	7.80	8.37	7.29	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	6.35	6.99	5.42	7.29	5.75	6.28	5.80	6.34	6.08	5.56	6.77
58 Ashland Avenue, Calumet Sag Channel	7.23	7.25	6.98	6.48	6.41	6.37	6.21	5.61	6.66	6.31	5.85
59 Cicero Avenue, Calumet Sag Channel	6.56	6.80	7.23	6.85	5.93	6.35	6.12	6.04	6.44	6.26	6.29
43 Route 83, Calumet Sag Channel	7.38	6.39	7.88	6.93	6.04	6.17	5.95	5.64	6.04	5.83	5.24
Des Plaines River System											
90 Route 19, Poplar Creek	8.47	10.16	9.16	8.94	9.52	7.91	10.15	8.40	9.26	9.09	9.71
63 Longmeadow Lane, West Branch DuPage River	ND	ND	8.90	ND	8.18	7.50	10.04	8.36	9.38	7.76	9.29
89 Walnut Lane, West Branch DuPage River	7.78	8.03	7.48	7.64	6.82	7.01	8.20	7.33	8.22	7.61	8.43
64 Lake Street, West Branch DuPage River	8.61	7.41	8.05	8.38	8.25	7.79	8.74	7.79	7.71	7.37	8.47
79 Higgins Road, Salt Creek	6.24	8.97	7.37	7.59	8.88	7.09	9.07	7.77	8.94	7.35	9.28
80 Arlington Heights Road, Salt Creek	8.48	8.01	7.79	8.07	8.29	7.79	7.97	7.31	8.43	7.74	8.42
18 Devon Avenue, Salt Creek	9.04	8.33	7.59	7.96	8.24	7.78	7.93	7.66	8.98	7.26	8.85
24 Wolf Road, Salt Creek	8.61	8.19	8.64	7.79	8.50	7.74	9.04	9.70	9.73	8.89	8.94
109 Brookfield Avenue, Salt Creek	7.81	8.02	8.13	5.98	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	10.90	7.98	6.72	7.65	6.48	7.07	7.08	7.49
77 Elmhurst Road, Higgins Creek	9.15	8.80	7.48	8.22	8.42	7.71	9.39	7.97	9.23	7.95	8.28
78 Wille Road, Higgins Creek	8.88	9.15	8.16	8.55	8.93	8.43	8.61	7.80	8.97	8.26	8.36
12 Lake-Cook Road, Buffalo Creek	9.79	9.83	8.11	8.60	9.93	7.97	8.60	8.47	8.63	8.50	10.18
13 Lake-Cook Road, Des Plaines River	8.59	8.83	8.30	9.35	9.02	8.04	8.46	8.01	8.55	7.06	8.86
17 Oakton Steet, Des Plaines River	8.39	8.83	7.57	8.17	9.00	7.66	8.32	8.11	8.49	7.94	8.14
19 Belmont Avenue, Des Plaines River	7.55	7.91	7.64	7.74	8.59	6.41	7.26	6.58	8.26	7.18	7.38
20 Roosevelt Road, Des Plaines River	7.57	8.13	7.16	7.96	8.31	6.44	7.24	6.44	8.05	7.28	7.63
22 Ogden Avenue, Des Plaines River	9.13	9.27	12.06	9.34	9.20	7.72	8.43	8.40	9.18	8.25	8.61
23 Willow Springs Road, Des Plaines River	9.08	9.19	8.66	8.99	9.44	7.65	8.68	8.41	9.14	8.42	8.85
29 Stephen Street, Des Plaines River	9.91	9.62	9.95	9.53	9.98	7.81	9.15	9.11	9.74	8.82	8.43
91 Material Service Road, Des Plaines River	10.31	10.65	9.65	10.31	8.71	8.42	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	6.80	6.31	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-51: TEMPERATURE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (°C)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	4.1	1.1	ND	ND	ND	15.0	16.3
106 Dundee Road, West Fork North Branch Chicago River	12.4	12.1	19.4	10.8	16.9	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	15.2	16.7	15.2	12.5	15.8	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	16.1	15.3	16.7	11.7	14.2	15.5	13.9	12.2	11.6	13.4	12.8
104 Glenview Road, North Branch Chicago River	15.1	13.9	16.5	10.4	15.9	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	17.1	15.2	16.1	11.9	14.4	15.5	14.0	11.9	12.1	13.1	14.9
105 Frontage Road, Skokie River	14.4	13.9	15.1	12.7	16.7	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	16.7	15.3	14.3	12.3	14.2	15.3	14.5	13.2	12.4	10.9	14.0
96 Albany Avenue, North Branch Chicago River	15.5	14.3	15.2	12.9	15.3	16.0	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	17.9	17.4	17.9	14.3	15.3	18.0	15.9	16.2	12.0	13.9	15.0
102 Oakton Street, North Shore Channel	16.1	12.8	16.2	14.9	16.8	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	16.4	14.7	17.0	16.5	16.9	15.8	16.9	15.8	12.8	14.7	14.2
101 Foster Avenue, North Shore Channel	16.8	15.8	17.9	15.3	17.8	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	17.5	17.3	17.1	15.1	15.1	14.9	16.0	15.2	12.4	13.7	13.0
73 Diversey Parkway, North Branch Chicago River	17.4	16.9	16.0	15.2	15.3	15.4	16.5	15.4	12.4	13.7	13.5
46 Grand Avenue, North Branch Chicago River	17.5	16.7	14.5	15.3	15.6	14.4	15.1	15.0	14.6	12.1	8.8
74 Lake Shore Drive, Chicago River	15.2	17.5	15.5	12.8	14.0	13.8	14.9	13.3	11.5	10.6	12.4
100 Wells Street, Chicago River	13.4	14.4	14.1	14.0	16.4	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	13.3	14.3	12.7	14.1	15.0	14.7	14.7	13.8	12.1	10.8	12.2
108 Loomis Street, South Branch Chicago River	15.5	18.4	17.1	17.8	20.0	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	15.8	16.5	16.1	17.2	18.5	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	15.5	16.9	16.8	ND	ND	18.3	16.8	15.4	13.3	11.6	14.9
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	17.1	17.8	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	20.0	18.1	20.8	18.8	18.1	18.7	15.6	18.0	12.5	13.5	14.1
41 Harlem Avenue, Chicago Sanitary & Ship Canal	17.3	17.6	17.5	16.9	17.1	17.0	17.9	16.7	13.9	13.5	13.7
42 Route 83, Chicago Sanitary & Ship Canal	17.7	15.3	17.5	16.6	16.9	19.1	18.0	17.2	15.0	14.7	14.8
48 Stephen Street, Chicago Sanitary & Ship Canal	16.1	15.8	15.6	16.4	16.9	18.3	18.5	16.6	14.6	14.2	14.4
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	19.3	18.1	17.9	18.7	18.3	19.1	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	16.2	14.2	12.4	12.7	13.0	13.4	13.5	14.8	12.6	13.3	13.1
50 Burnham Avenue, Wolf Lake	14.5	13.0	14.2	12.1	14.1	13.5	13.6	15.0	12.4	12.5	13.1
55 130th Street, Calumet River	15.8	15.6	14.4	12.3	15.1	14.8	15.7	15.5	13.3	14.8	15.3
86 Burnham Avenue, Grand Calumet River	16.2	15.4	15.6	12.9	15.5	15.1	15.3	15.6	13.7	13.9	14.3
56 Indiana Avenue, Little Calumet River	16.0	16.7	16.2	13.6	17.8	15.2	15.7	16.7	14.1	14.7	14.4
76 Halsted Street, Little Calumet River	16.4	13.5	15.7	14.8	15.0	16.2	16.5	16.4	13.6	4.3	14.9
52 Wentworth Avenue, Little Calumet River	14.5	14.3	16.2	13.1	13.9	14.6	15.3	14.3	11.9	14.7	14.7
54 Joe Orr Road, Thorn Creek	15.0	15.3	14.9	15.0	15.9	17.3	15.0	15.8	13.2	14.0	15.4
97 170th Street, Thorn Creek	13.4	14.7	15.3	14.4	15.5	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	15.7	16.2	17.1	12.9	15.7	15.6	16.0	14.6	11.2	15.2	13.6
58 Ashland Avenue, Calumet Sag Channel	15.8	14.2	15.1	14.5	14.7	15.7	16.7	19.1	14.1	13.6	15.5
59 Cicero Avenue, Calumet Sag Channel	15.0	16.6	16.9	16.3	14.5	15.5	16.6	16.0	13.1	14.4	13.9
43 Route 83, Calumet Sag Channel	16.7	20.0	16.8	14.9	14.2	15.5	16.5	15.5	14.0	14.9	13.5
Des Plaines River System											
90 Route 19, Poplar Creek	15.1	15.0	13.8	16.3	14.0	17.7	13.1	17.1	14.6	13.7	15.3
63 Longmeadow Lane, West Branch DuPage River	ND	ND	20.4	ND	11.3	16.2	13.9	17.8	10.6	13.4	13.2
89 Walnut Lane, West Branch DuPage River	16.9	16.1	16.6	15.5	15.8	15.2	16.1	18.3	15.1	14.3	15.5
64 Lake Street, West Branch DuPage River	16.5	15.9	14.4	14.2	16.0	15.5	14.7	17.9	13.9	14.7	14.1
79 Higgins Road, Salt Creek	19.2	15.0	15.1	18.9	16.8	15.9	14.4	19.1	14.2	14.5	16.1
80 Arlington Heights Road, Salt Creek	16.4	15.9	14.9	14.2	14.5	14.2	15.2	17.6	14.2	15.2	14.4
18 Devon Avenue, Salt Creek	15.3	15.4	16.0	14.6	14.5	14.5	14.8	17.5	13.5	14.8	14.7
24 Wolf Road, Salt Creek	14.8	16.2	12.9	12.3	13.8	16.3	14.8	9.9	9.6	14.2	13.9
109 Brookfield Avenue, Salt Creek	14.9	15.1	14.1	15.9	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	3.4	13.5	15.3	13.5	14.8	11.6	13.5	12.5
77 Elmhurst Road, Higgins Creek	12.3	12.7	15.4	15.0	14.5	15.2	14.0	15.3	9.2	12.3	12.7
78 Wille Road, Higgins Creek	17.1	15.6	15.4	16.0	15.6	16.3	16.1	17.3	11.5	15.3	15.4
12 Lake-Cook Road, Buffalo Creek	13.5	13.2	13.7	13.7	13.4	15.4	12.9	16.9	12.1	13.2	14.6
13 Lake-Cook Road, Des Plaines River	15.8	14.1	12.4	12.2	13.3	13.3	12.9	15.7	11.6	13.8	13.1
17 Oakton Steet, Des Plaines River	15.9	15.2	15.5	14.4	13.5	15.1	13.8	15.1	10.0	13.3	13.6
19 Belmont Avenue, Des Plaines River	15.3	16.2	13.6	12.1	13.5	15.1	13.7	15.3	10.7	13.4	13.0
20 Roosevelt Road, Des Plaines River	15.4	15.7	15.3	12.2	13.8	15.0	13.3	15.2	10.6	13.5	12.4
22 Ogden Avenue, Des Plaines River	15.1	16.5	6.0	11.3	13.9	15.5	14.1	14.8	11.2	14.6	13.1
23 Willow Springs Road, Des Plaines River	14.7	16.1	15.0	14.4	13.6	16.1	14.8	16.2	10.0	14.2	13.8
29 Stephen Street, Des Plaines River	15.1	17.2	13.8	12.3	14.2	16.6	14.9	16.7	9.0	14.5	13.5
91 Material Service Road, Des Plaines River	15.0	17.1	13.2	12.5	16.2	15.1	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	15.1	15.3	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-52: pH MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	7.50	8.00	ND	ND	ND	7.94	8.01
106 Dundee Road, West Fork North Branch Chicago River	7.53	7.33	7.57	7.54	7.38	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.42	7.72	7.65	7.77	7.75	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.26	7.32	7.59	7.44	7.60	7.79	7.87	7.77	6.75	7.93	8.04
104 Glenview Road, North Branch Chicago River	7.22	7.45	7.97	7.73	7.63	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	7.19	7.34	7.59	7.43	7.61	7.95	7.96	7.82	6.67	7.94	8.10
105 Frontage Road, Skokie River	7.19	7.47	7.65	7.69	7.70	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	7.45	7.72	7.72	7.59	7.62	7.78	7.84	7.72	6.79	7.73	7.88
96 Albany Avenue, North Branch Chicago River	7.30	7.53	7.69	7.81	7.40	7.65	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	7.65	7.89	7.31	7.90	7.77	8.31	8.12	8.24	7.03	8.07	8.37
102 Oakton Street, North Shore Channel	7.35	7.73	7.13	7.36	7.37	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.14	7.41	7.25	7.38	7.19	7.63	7.56	7.50	6.95	7.59	7.64
101 Foster Avenue, North Shore Channel	7.18	7.27	7.13	7.28	7.14	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.32	7.59	7.50	7.44	7.29	7.57	7.58	7.68	6.99	7.71	7.38
73 Diversey Parkway, North Branch Chicago River	7.23	7.37	7.26	7.45	7.12	7.59	7.41	7.84	7.16	7.94	7.24
46 Grand Avenue, North Branch Chicago River	7.21	7.47	7.41	7.36	7.09	7.60	7.74	7.82	6.48	7.55	7.60
74 Lake Shore Drive, Chicago River	7.52	7.73	7.33	7.43	7.95	7.70	8.09	8.15	7.96	7.88	7.53
100 Wells Street, Chicago River	7.44	7.49	7.30	7.23	7.66	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	7.41	7.31	7.25	7.23	7.39	7.54	7.89	7.89	7.75	7.52	7.38
108 Loomis Street, South Branch Chicago River	7.44	7.30	7.36	7.25	7.02	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	7.27	7.27	7.35	7.13	7.03	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.39	7.40	7.38	ND	ND	7.45	7.72	8.06	7.48	7.68	7.27
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	7.10	7.06	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.23	7.47	7.27	7.16	7.23	7.27	7.85	8.02	7.90	7.82	7.24
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.11	7.47	7.23	7.17	7.19	7.42	7.67	7.97	7.44	7.38	7.10
42 Route 83, Chicago Sanitary & Ship Canal	7.08	7.40	7.12	7.22	7.13	7.32	7.71	7.98	7.54	7.51	7.33
48 Stephen Street, Chicago Sanitary & Ship Canal	7.03	7.34	7.25	7.26	7.23	7.48	7.62	7.97	7.58	7.49	7.48
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	7.75	7.61	7.65	7.80	7.64	7.45
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.20	7.38	7.33	7.27	7.11	7.28	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	7.48	8.01	7.65	7.55	7.47	7.96	8.19	8.25	7.88	8.00	7.66
50 Burnham Avenue, Wolf Lake	7.65	7.82	8.18	7.91	7.76	8.06	8.29	8.34	7.93	8.31	8.12
55 130th Street, Calumet River	7.64	7.78	7.86	7.87	7.41	7.72	8.21	8.12	7.91	8.35	8.27
86 Burnham Avenue, Grand Calumet River	7.30	7.51	7.58	7.73	7.39	7.74	7.79	7.94	7.47	8.02	7.55
56 Indiana Avenue, Little Calumet River	7.06	7.67	7.73	7.63	7.79	7.73	8.10	8.03	7.75	8.32	8.16
76 Halsted Street, Little Calumet River	7.11	7.40	7.36	7.35	7.21	7.47	7.82	7.56	7.49	7.32	7.66
52 Wentworth Avenue, Little Calumet River	7.16	7.43	7.63	7.56	7.31	7.84	7.95	8.09	7.70	8.65	7.98
54 Joe Orr Road, Thorn Creek	7.10	7.38	7.37	7.37	7.12	7.51	8.10	7.53	7.07	7.51	7.65
97 170th Street, Thorn Creek	6.96	7.44	7.61	7.58	7.14	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	7.07	7.42	7.39	7.55	7.20	7.41	7.91	7.65	7.03	7.29	7.61
58 Ashland Avenue, Calumet Sag Channel	6.91	7.33	7.47	7.37	7.26	7.31	7.78	7.92	7.78	7.27	7.68
59 Cicero Avenue, Calumet Sag Channel	7.04	7.40	7.54	7.07	7.19	7.17	7.79	7.74	7.43	7.45	7.54
43 Route 83, Calumet Sag Channel	7.25	7.46	7.66	6.99	7.16	7.17	7.72	7.74	7.63	7.39	7.26
Des Plaines River System											
90 Route 19, Poplar Creek	7.70	7.65	7.58	7.64	7.54	8.08	8.16	8.17	7.93	7.94	8.00
63 Longmeadow Lane, West Branch DuPage River	ND	ND	7.40	ND	7.43	7.95	7.90	8.13	7.66	7.94	7.95
89 Walnut Lane, West Branch DuPage River	7.40	7.44	7.37	7.46	7.42	8.13	7.89	7.90	7.67	7.92	7.85
64 Lake Street, West Branch DuPage River	7.57	7.48	7.48	7.66	7.50	8.30	7.71	8.06	7.88	8.06	7.87
79 Higgins Road, Salt Creek	7.39	7.54	7.54	7.74	7.50	8.16	8.24	8.29	8.09	7.73	8.11
80 Arlington Heights Road, Salt Creek	7.45	7.42	7.34	7.56	7.44	8.16	7.87	7.97	7.94	7.75	8.00
18 Devon Avenue, Salt Creek	7.44	7.35	7.39	7.26	7.58	8.03	7.85	7.87	7.82	7.73	7.89
24 Wolf Road, Salt Creek	7.30	7.67	7.31	7.45	7.63	7.78	8.05	7.91	6.77	7.73	8.18
109 Brookfield Avenue, Salt Creek	7.32	7.56	7.44	7.13	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	7.40	7.43	7.40	7.68	7.65	7.65	7.87	7.64
77 Elmhurst Road, Higgins Creek	7.39	7.80	7.54	7.35	7.65	7.81	8.02	7.75	6.87	7.84	8.07
78 Wille Road, Higgins Creek	7.37	7.66	7.58	7.14	7.72	7.60	7.77	7.75	6.66	7.81	8.13
12 Lake-Cook Road, Buffalo Creek	7.51	7.86	7.70	7.80	7.70	7.85	7.75	7.87	7.81	7.63	7.85
13 Lake-Cook Road, Des Plaines River	7.44	7.77	7.62	7.52	7.68	7.92	7.80	7.93	7.92	8.02	7.73
17 Oakton Steet, Des Plaines River	7.44	7.63	7.67	7.34	7.69	7.75	7.89	7.78	7.92	8.00	8.18
19 Belmont Avenue, Des Plaines River	7.45	7.62	7.68	7.40	7.65	7.64	7.78	7.74	8.05	8.09	7.91
20 Roosevelt Road, Des Plaines River	7.49	7.67	7.71	7.32	7.59	7.68	7.77	7.70	7.78	7.93	7.92
22 Ogden Avenue, Des Plaines River	7.49	7.63	7.46	7.49	7.55	7.12	7.43	7.65	7.95	7.88	7.43
23 Willow Springs Road, Des Plaines River	7.62	7.63	7.59	7.60	7.66	7.83	8.13	7.87	6.47	7.95	8.26
29 Stephen Street, Des Plaines River	7.55	7.51	7.67	7.82	7.71	7.82	8.12	7.96	6.74	8.02	8.41
91 Material Service Road, Des Plaines River	7.74	7.65	7.80	7.85	7.40	7.65	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	7.43	7.49	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-53: ALKALINITY (TOTAL) MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	196	170	ND	ND	ND	152	148
106 Dundee Road, West Fork North Branch Chicago River	152	178	138	187	180	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	172	179	168	185	177	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	199	196	194	213	201	189	205	209	183	206	197
104 Glenview Road, North Branch Chicago River	156	182	170	183	189	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	183	209	191	210	210	200	191	231	200	237	199
105 Frontage Road, Skokie River	154	178	160	178	182	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	164	175	159	180	179	163	171	194	180	177	184
96 Albany Avenue, North Branch Chicago River	167	169	170	176	186	161	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	115	116	117	119	111	126	129	126	119	140	121
102 Oakton Street, North Shore Channel	126	137	128	130	119	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	126	151	140	149	151	137	142	152	144	151	171
101 Foster Avenue, North Shore Channel	135	144	137	149	142	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	138	159	139	148	156	141	152	161	162	157	174
73 Diversey Parkway, North Branch Chicago River	135	156	139	144	155	138	150	161	149	156	165
46 Grand Avenue, North Branch Chicago River	144	156	145	147	157	143	151	167	149	160	178
74 Lake Shore Drive, Chicago River	120	119	116	120	125	123	117	120	115	114	122
100 Wells Street, Chicago River	123	125	130	130	132	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	137	137	140	141	147	137	144	148	131	136	140
108 Loomis Street, South Branch Chicago River	142	136	138	154	137	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	138	142	133	148	157	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	138	138	136	ND	ND	136	149	152	132	139	133
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	150	139	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	140	142	132	153	141	135	140	144	133	134	148
41 Harlem Avenue, Chicago Sanitary & Ship Canal	126	132	117	137	139	121	129	137	131	122	142
42 Route 83, Chicago Sanitary & Ship Canal	138	137	126	140	137	126	131	140	137	133	145
48 Stephen Street, Chicago Sanitary & Ship Canal	142	143	138	158	144	158	139	142	143	137	152
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	143	135	149	244	480	212
92 Lockport Forebay, Chicago Sanitary & Ship Canal	138	140	133	141	148	137	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	109	111	110	110	112	115	115	111	116	111	120
50 Burnham Avenue, Wolf Lake	109	111	104	96	96	101	98	102	106	102	109
55 130th Street, Calumet River	112	116	111	117	116	116	117	114	118	129	119
86 Burnham Avenue, Grand Calumet River	170	203	196	176	165	168	155	141	158	212	221
56 Indiana Avenue, Little Calumet River	125	129	127	138	126	127	129	129	130	133	146
76 Halsted Street, Little Calumet River	153	159	146	156	159	154	158	153	153	154	170
52 Wentworth Avenue, Little Calumet River	175	206	208	225	190	195	193	200	215	215	214
54 Joe Orr Road, Thorn Creek	152	183	158	183	195	172	175	203	216	223	238
97 170th Street, Thorn Creek	172	186	172	190	182	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	168	180	182	194	174	190	184	179	199	201	215
58 Ashland Avenue, Calumet Sag Channel	154	158	155	167	163	159	156	142	164	162	180
59 Cicero Avenue, Calumet Sag Channel	150	150	151	157	161	161	156	156	159	160	187
43 Route 83, Calumet Sag Channel	151	153	150	152	161	162	159	156	161	161	173
Des Plaines River System											
90 Route 19, Poplar Creek	188	216	185	209	207	196	239	230	182	213	230
63 Longmeadow Lane, West Branch DuPage River	ND	ND	118	ND	195	156	192	184	160	137	192
89 Walnut Lane, West Branch DuPage River	150	148	135	158	165	155	163	154	140	138	157
64 Lake Street, West Branch DuPage River	133	147	129	157	162	146	153	152	141	133	156
79 Higgins Road, Salt Creek	142	197	127	166	182	161	158	171	142	159	180
80 Arlington Heights Road, Salt Creek	136	149	133	151	147	136	166	145	140	150	160
18 Devon Avenue, Salt Creek	135	149	132	147	145	132	139	144	145	144	160
24 Wolf Road, Salt Creek	134	156	126	154	159	144	153	178	139	155	173
109 Brookfield Avenue, Salt Creek	133	160	125	128	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	185	161	150	150	161	140	148	178
77 Elmhurst Road, Higgins Creek	120	158	102	139	168	140	172	196	144	140	175
78 Wille Road, Higgins Creek	150	192	159	181	195	171	190	173	168	168	191
12 Lake-Cook Road, Buffalo Creek	197	190	170	222	210	174	188	206	189	191	219
13 Lake-Cook Road, Des Plaines River	179	196	168	214	210	191	253	207	184	196	221
17 Oakton Steet, Des Plaines River	171	192	167	206	201	175	180	205	169	192	212
19 Belmont Avenue, Des Plaines River	167	189	155	192	203	172	177	199	176	188	211
20 Roosevelt Road, Des Plaines River	166	190	153	199	202	171	173	195	178	191	211
22 Ogden Avenue, Des Plaines River	151	176	155	181	190	160	164	185	167	179	200
23 Willow Springs Road, Des Plaines River	154	180	141	177	189	157	165	185	169	180	205
29 Stephen Street, Des Plaines River	159	180	149	181	188	165	166	184	176	180	192
91 Material Service Road, Des Plaines River	163	184	146	185	183	172	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	179	183	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-54: CHLORIDE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	856	847	ND	ND	ND	198	182
106 Dundee Road, West Fork North Branch Chicago River	456	552	181	293	371	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	501	298	270	244	227	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	318	205	217	185	203	217	177	180	211	198	199
104 Glenview Road, North Branch Chicago River	258	265	215	171	177	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	310	239	220	190	218	242	185	183	250	215	172
105 Frontage Road, Skokie River	236	203	177	162	167	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	337	322	205	205	249	269	199	182	263	260	184
96 Albany Avenue, North Branch Chicago River	346	236	230	223	228	163	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	35	31	47	64	16	60	43	34	23	49	22
102 Oakton Street, North Shore Channel	135	104	80	99	36	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	150	172	143	105	152	150	154	110	116	115	149
101 Foster Avenue, North Shore Channel	165	143	123	111	121	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	209	183	159	133	192	202	193	133	178	139	178
73 Diversey Parkway, North Branch Chicago River	196	193	168	136	199	190	188	129	184	143	149
46 Grand Avenue, North Branch Chicago River	186	219	174	133	191	148	153	150	133	161	167
74 Lake Shore Drive, Chicago River	62	62	73	69	98	81	53	64	28	27	31
100 Wells Street, Chicago River	109	103	108	88	98	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	156	129	136	102	179	126	113	108	78	86	88
108 Loomis Street, South Branch Chicago River	158	141	137	122	96	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	150	148	134	127	117	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	153	142	137	ND	ND	134	107	136	98	122	84
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	122	138	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	156	161	150	130	148	124	106	149	105	114	114
41 Harlem Avenue, Chicago Sanitary & Ship Canal	162	167	149	124	170	166	155	143	137	130	136
42 Route 83, Chicago Sanitary & Ship Canal	170	221	156	144	203	139	171	147	157	145	138
48 Stephen Street, Chicago Sanitary & Ship Canal	164	179	160	156	202	126	139	149	155	158	132
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	225	151	134	153	124	155
92 Lockport Forebay, Chicago Sanitary & Ship Canal	181	195	166	151	187	179	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	38	31	35	40	59	51	42	31	23	24	27
50 Burnham Avenue, Wolf Lake	59	55	42	43	45	32	30	30	35	31	34
55 130th Street, Calumet River	75	69	64	68	93	74	67	53	57	57	58
86 Burnham Avenue, Grand Calumet River	137	138	176	200	180	177	198	192	190	267	259
56 Indiana Avenue, Little Calumet River	82	82	88	109	95	103	95	99	100	86	92
76 Halsted Street, Little Calumet River	174	154	133	127	162	150	139	122	136	163	132
52 Wentworth Avenue, Little Calumet River	140	160	179	189	137	155	143	109	136	119	128
54 Joe Orr Road, Thorn Creek	212	235	94	191	187	162	156	152	171	187	168
97 170th Street, Thorn Creek	228	222	217	194	163	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	205	200	193	173	168	190	171	139	185	151	164
58 Ashland Avenue, Calumet Sag Channel	180	167	155	147	167	164	131	101	191	135	131
59 Cicero Avenue, Calumet Sag Channel	171	167	150	145	167	168	136	136	166	139	132
43 Route 83, Calumet Sag Channel	144	156	142	144	179	168	130	135	143	145	126
Des Plaines River System											
90 Route 19, Poplar Creek	278	241	201	220	229	143	157	199	197	209	175
63 Longmeadow Lane, West Branch DuPage River	ND	ND	154	ND	283	189	257	220	321	388	315
89 Walnut Lane, West Branch DuPage River	181	207	205	169	171	153	127	131	142	199	167
64 Lake Street, West Branch DuPage River	211	198	186	190	198	160	133	152	166	198	191
79 Higgins Road, Salt Creek	409	363	235	260	327	278	218	201	290	323	288
80 Arlington Heights Road, Salt Creek	323	225	241	213	234	219	177	178	235	256	195
18 Devon Avenue, Salt Creek	320	236	250	204	247	223	178	188	271	250	200
24 Wolf Road, Salt Creek	261	250	241	254	268	220	186	267	231	263	239
109 Brookfield Avenue, Salt Creek	258	264	208	135	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	654	260	213	184	216	214	253	241
77 Elmhurst Road, Higgins Creek	478	514	424	460	479	336	294	364	348	378	354
78 Wille Road, Higgins Creek	220	190	213	259	221	191	168	193	234	215	190
12 Lake-Cook Road, Buffalo Creek	373	243	229	189	302	194	153	174	207	240	197
13 Lake-Cook Road, Des Plaines River	221	176	202	188	158	152	184	151	154	171	145
17 Oakton Steet, Des Plaines River	251	197	202	224	182	141	137	151	167	194	155
19 Belmont Avenue, Des Plaines River	230	225	255	236	188	153	146	160	187	203	182
20 Roosevelt Road, Des Plaines River	260	211	173	265	190	157	146	160	193	200	180
22 Ogden Avenue, Des Plaines River	255	218	261	269	205	170	153	172	214	206	197
23 Willow Springs Road, Des Plaines River	268	222	197	226	204	177	160	178	191	201	178
29 Stephen Street, Des Plaines River	255	212	210	267	199	175	157	183	232	222	193
91 Material Service Road, Des Plaines River	249	212	200	251	198	202	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	355	310	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-55: TURBIDITY MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (NTU)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	25.5	81.0	ND	ND	ND	47.0	27.8
106 Dundee Road, West Fork North Branch Chicago River	30.1	49.5	32.2	19.2	24.6	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	25.6	20.1	16.9	20.7	18.5	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	16.7	22.8	13.1	16.6	22.3	16.8	19.7	14.6	18.3	24.6	24.7
104 Glenview Road, North Branch Chicago River	15.2	18.2	14.7	15.3	14.1	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	16.8	19.8	12.6	13.4	15.6	13.0	17.6	13.4	12.2	18.5	22.7
105 Frontage Road, Skokie River	13.4	16.7	12.0	12.5	12.9	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	18.9	19.1	14.5	18.0	18.1	18.5	20.2	21.2	20.2	18.3	23.3
96 Albany Avenue, North Branch Chicago River	16.0	18.3	14.1	14.5	13.3	11.0	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	5.9	7.3	8.2	10.6	10.3	11.8	9.1	8.7	10.3	10.8	12.6
102 Oakton Street, North Shore Channel	12.2	11.3	11.6	14.1	14.4	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	6.5	7.6	7.1	8.1	6.7	8.1	7.5	6.8	7.0	8.4	9.1
101 Foster Avenue, North Shore Channel	7.0	7.5	8.0	9.5	8.7	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	9.5	10.5	9.2	11.3	11.4	9.7	10.1	8.7	9.5	10.2	10.3
73 Diversey Parkway, North Branch Chicago River	10.0	11.4	9.5	12.4	11.8	10.1	11.7	11.3	9.1	13.8	12.0
46 Grand Avenue, North Branch Chicago River	11.3	14.9	10.2	13.2	12.0	12.6	12.7	10.8	9.9	12.7	11.9
74 Lake Shore Drive, Chicago River	3.3	3.4	5.5	6.0	5.9	8.3	7.0	6.8	8.5	8.7	8.8
100 Wells Street, Chicago River	4.7	4.7	7.0	6.8	7.9	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	9.1	11.1	9.8	11.6	12.5	10.5	11.2	10.3	10.5	10.1	12.6
108 Loomis Street, South Branch Chicago River	9.6	10.7	9.1	10.0	12.6	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	8.7	9.9	9.3	10.4	12.5	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	10.4	11.5	10.3	ND	ND	12.7	11.2	10.6	11.2	11.4	18.1
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	11.0	12.9	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	11.6	13.7	10.5	10.6	13.6	12.8	13.8	10.8	11.8	11.1	11.8
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.4	6.9	7.2	8.3	8.5	9.3	9.7	7.2	8.9	8.8	9.5
42 Route 83, Chicago Sanitary & Ship Canal	5.8	6.6	8.0	8.6	8.0	8.2	7.8	9.5	8.3	7.7	10.2
48 Stephen Street, Chicago Sanitary & Ship Canal	11.5	11.4	9.9	9.9	10.4	11.1	9.4	11.7	11.9	13.2	16.8
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	10.6	10.6	9.5	10.0	11.4	11.5	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	5.6	7.7	6.9	7.5	9.8	10.6	9.8	9.8	9.5	10.5	10.5
50 Burnham Avenue, Wolf Lake	5.3	3.8	5.3	5.2	6.6	6.4	5.8	7.4	6.8	6.7	7.0
55 130th Street, Calumet River	5.9	6.4	7.8	9.4	10.8	13.5	8.0	9.4	10.7	9.7	10.5
86 Burnham Avenue, Grand Calumet River	25.3	11.5	9.4	9.3	10.0	12.5	11.1	8.4	10.5	35.5	18.5
56 Indiana Avenue, Little Calumet River	24.8	19.6	16.8	18.9	17.9	15.8	14.7	13.0	17.5	27.1	25.0
76 Halsted Street, Little Calumet River	10.2	11.1	8.4	10.3	11.1	10.3	8.8	11.2	15.2	16.0	14.8
52 Wentworth Avenue, Little Calumet River	32.2	30.9	16.1	22.6	24.7	33.0	30.1	30.6	43.8	41.9	18.1
54 Joe Orr Road, Thorn Creek	63.6	17.8	29.4	8.0	10.3	22.0	10.4	14.8	14.5	12.8	9.5
97 170th Street, Thorn Creek	46.2	29.2	19.8	14.9	27.6	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	42.5	27.5	20.1	16.6	26.2	21.3	22.5	37.8	34.3	24.1	19.2
58 Ashland Avenue, Calumet Sag Channel	13.4	14.7	14.5	12.0	14.8	13.3	13.8	12.9	26.2	20.6	18.3
59 Cicero Avenue, Calumet Sag Channel	14.2	17.8	14.3	14.6	15.2	13.3	14.8	16.4	21.1	25.8	22.8
43 Route 83, Calumet Sag Channel	14.2	15.7	20.7	16.2	22.0	18.5	15.4	17.1	26.4	29.8	21.3
Des Plaines River System											
90 Route 19, Poplar Creek	14.7	10.0	17.1	11.9	13.2	18.6	16.2	11.8	40.0	105.5	20.2
63 Longmeadow Lane, West Branch DuPage River	ND	ND	22.6	ND	20.3	21.8	17.7	14.6	21.3	39.5	43.9
89 Walnut Lane, West Branch DuPage River	7.6	8.3	10.2	7.5	9.0	13.5	12.4	7.0	11.4	26.8	29.8
64 Lake Street, West Branch DuPage River	26.3	22.5	19.0	18.6	21.3	27.6	22.0	19.7	25.8	38.5	30.2
79 Higgins Road, Salt Creek	42.9	23.2	30.3	24.6	22.5	29.4	23.7	21.1	33.5	61.8	25.2
80 Arlington Heights Road, Salt Creek	6.5	5.7	8.1	6.9	9.8	10.8	11.2	7.0	12.3	8.8	9.7
18 Devon Avenue, Salt Creek	10.1	11.6	9.6	9.2	11.8	15.6	15.7	9.7	18.2	14.5	11.1
24 Wolf Road, Salt Creek	20.1	16.2	22.6	13.8	17.2	22.6	20.7	13.7	31.5	25.9	27.2
109 Brookfield Avenue, Salt Creek	23.3	17.0	27.8	13.0	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	12.9	18.1	23.0	22.0	14.9	29.8	24.5	18.8
77 Elmhurst Road, Higgins Creek	29.3	29.5	23.0	22.2	18.8	27.7	22.1	17.3	23.5	77.4	80.8
78 Wille Road, Higgins Creek	3.9	5.1	7.1	6.9	7.3	7.2	5.4	7.9	7.8	17.5	22.4
12 Lake-Cook Road, Buffalo Creek	20.6	19.9	24.9	23.5	17.7	45.9	25.8	18.9	28.3	36.8	21.8
13 Lake-Cook Road, Des Plaines River	19.4	18.5	18.7	15.8	16.9	23.9	22.0	18.6	30.1	22.1	18.8
17 Oakton Steet, Des Plaines River	15.1	18.4	21.7	15.6	18.4	27.5	24.5	23.6	39.9	24.2	25.9
19 Belmont Avenue, Des Plaines River	17.6	17.1	20.8	17.1	16.7	20.4	19.3	16.7	34.8	25.5	25.8
20 Roosevelt Road, Des Plaines River	17.5	16.8	21.3	16.1	16.9	22.3	19.8	17.3	32.2	23.3	22.8
22 Ogden Avenue, Des Plaines River	23.8	16.3	24.2	15.0	17.3	23.6	19.7	17.6	33.7	23.5	20.6
23 Willow Springs Road, Des Plaines River	20.9	19.1	19.6	15.8	22.9	26.0	22.5	23.7	30.6	29.4	26.2
29 Stephen Street, Des Plaines River	23.0	20.2	20.9	15.9	26.0	26.6	24.4	24.3	30.1	31.8	25.3
91 Material Service Road, Des Plaines River	25.8	20.5	22.4	16.9	24.7	24.5	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	25.2	32.9	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-56: ELECTRICAL CONDUCTIVITY MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (μmhos)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	1235	935	930	1109	1172	1034	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-57: TOTAL KJELDAHL NITROGEN MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	1.32	2.18	ND	ND	ND	1.94	1.61
106 Dundee Road, West Fork North Branch Chicago River	1.31	1.58	1.88	1.52	2.16	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.41	1.04	1.25	2.01	1.50	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1.36	1.05	1.24	1.26	1.34	1.67	1.13	0.98	1.22	1.05	1.10
104 Glenview Road, North Branch Chicago River	1.22	0.99	1.33	1.21	1.43	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	1.67	1.08	0.97	1.18	1.17	1.09	1.02	0.80	1.16	1.10	1.11
105 Frontage Road, Skokie River	1.25	0.96	1.16	1.26	1.36	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1.22	1.04	1.12	1.58	1.71	1.45	1.21	1.03	1.47	1.43	1.16
96 Albany Avenue, North Branch Chicago River	1.31	0.94	1.17	1.40	1.96	1.60	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.39	0.54	0.84	1.02	0.63	1.05	1.27	0.76	0.38	2.25	0.52
102 Oakton Street, North Shore Channel	1.54	1.45	1.91	1.81	1.10	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	3.08	2.35	2.75	2.60	2.66	2.65	2.48	2.08	2.83	4.17	2.87
101 Foster Avenue, North Shore Channel	3.53	3.31	3.02	2.98	2.70	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	3.19	3.07	2.63	2.60	2.66	3.10	3.34	2.20	2.93	4.17	3.03
73 Diversey Parkway, North Branch Chicago River	2.25	2.20	2.39	2.33	2.43	2.52	2.20	1.58	2.44	3.37	2.04
46 Grand Avenue, North Branch Chicago River	2.82	2.26	2.16	2.51	2.34	2.40	2.18	1.94	2.27	3.06	2.93
74 Lake Shore Drive, Chicago River	0.73	0.66	0.73	0.67	1.01	1.10	0.63	0.43	0.50	0.43	0.34
100 Wells Street, Chicago River	1.15	1.25	1.59	1.10	1.08	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	2.32	1.93	2.35	2.46	1.94	2.36	1.75	1.67	1.36	1.72	1.27
108 Loomis Street, South Branch Chicago River	2.33	2.00	1.69	2.03	1.60	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	2.46	2.07	2.07	2.62	3.35	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	2.31	1.99	1.97	ND	ND	2.31	1.80	1.31	1.85	2.03	1.44
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	2.20	2.02	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	2.10	1.80	1.96	2.15	1.92	1.99	1.64	1.48	1.51	2.31	2.07
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.93	1.20	1.51	1.68	1.91	1.72	1.43	1.50	2.05	2.86	2.44
42 Route 83, Chicago Sanitary & Ship Canal	1.81	1.45	1.62	1.97	1.94	1.65	1.70	1.86	2.48	2.80	2.40
48 Stephen Street, Chicago Sanitary & Ship Canal	1.76	1.32	1.57	1.91	1.87	1.93	1.71	1.49	2.05	2.49	2.75
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	1.96	1.77	1.71	1.90	2.26	2.30
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.67	1.38	1.58	1.66	1.86	1.83	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.25	0.18	0.23	0.35	0.41	0.51	0.59	0.48	0.37	0.76	0.43
50 Burnham Avenue, Wolf Lake	0.73	0.57	0.52	0.49	0.62	0.73	0.47	0.55	0.72	0.68	0.61
55 130th Street, Calumet River	0.70	0.45	0.58	0.71	0.85	0.66	0.69	0.49	0.51	0.67	0.62
86 Burnham Avenue, Grand Calumet River	4.31	2.65	3.85	2.89	2.58	4.32	3.34	2.10	1.98	6.36	6.16
56 Indiana Avenue, Little Calumet River	0.84	0.88	1.02	1.02	1.05	1.01	1.10	1.00	1.20	1.74	1.78
76 Halsted Street, Little Calumet River	1.26	1.00	1.16	1.39	1.58	1.50	1.38	1.27	1.66	2.66	3.11
52 Wentworth Avenue, Little Calumet River	1.61	1.45	1.58	1.58	1.73	2.03	2.39	2.65	1.53	1.76	1.27
54 Joe Orr Road, Thorn Creek	1.55	1.27	1.19	1.47	1.53	1.92	1.43	1.23	1.38	2.02	1.60
97 170th Street, Thorn Creek	1.34	1.11	1.28	1.46	1.58	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.58	1.15	1.23	1.42	1.60	1.46	1.44	1.42	1.40	1.42	1.74
58 Ashland Avenue, Calumet Sag Channel	1.30	1.03	1.22	1.35	1.55	1.50	1.37	1.11	1.62	1.83	2.78
59 Cicero Avenue, Calumet Sag Channel	1.41	1.19	1.26	1.49	1.67	2.22	1.46	1.37	1.83	2.27	3.74
43 Route 83, Calumet Sag Channel	1.25	1.15	1.32	1.50	1.94	1.45	1.42	1.25	1.92	2.49	3.18
Des Plaines River System											
90 Route 19, Poplar Creek	0.94	0.68	1.03	0.87	1.03	1.31	1.78	0.74	1.22	1.14	1.10
63 Longmeadow Lane, West Branch DuPage River	ND	ND	1.93	ND	1.88	1.66	1.81	1.66	1.82	2.19	1.92
89 Walnut Lane, West Branch DuPage River	1.93	1.56	2.28	1.83	2.30	2.37	2.64	2.34	2.12	2.12	1.97
64 Lake Street, West Branch DuPage River	2.09	1.93	2.37	2.05	2.53	2.70	2.25	2.52	2.42	2.24	2.10
79 Higgins Road, Salt Creek	1.41	1.07	1.47	1.60	1.49	1.82	1.17	1.31	1.36	1.27	1.52
80 Arlington Heights Road, Salt Creek	1.16	1.27	1.84	1.83	1.64	1.74	1.46	1.45	1.58	1.55	1.66
18 Devon Avenue, Salt Creek	1.42	1.35	1.86	1.87	1.74	1.73	1.47	1.33	1.51	1.86	1.91
24 Wolf Road, Salt Creek	1.25	0.91	1.48	1.44	1.52	1.61	1.23	1.12	1.56	1.84	1.67
109 Brookfield Avenue, Salt Creek	1.23	0.88	1.48	1.41	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	1.56	1.39	1.62	1.42	1.05	1.50	1.47	1.43
77 Elmhurst Road, Higgins Creek	1.29	0.74	1.40	1.31	1.34	1.41	1.29	0.82	0.92	1.23	1.21
78 Wille Road, Higgins Creek	1.51	1.45	1.49	1.65	1.85	2.35	1.74	1.37	2.10	1.44	1.66
12 Lake-Cook Road, Buffalo Creek	1.36	0.81	1.41	1.52	1.22	1.49	1.12	0.98	1.23	1.29	1.10
13 Lake-Cook Road, Des Plaines River	1.34	0.98	1.51	1.78	1.48	1.82	1.22	1.26	1.33	1.12	1.25
17 Oakton Steet, Des Plaines River	1.31	1.02	1.54	1.52	1.55	1.58	1.18	1.24	1.36	1.49	1.66
19 Belmont Avenue, Des Plaines River	1.28	0.96	1.66	1.42	1.66	2.27	1.13	1.26	1.54	1.58	1.72
20 Roosevelt Road, Des Plaines River	1.20	1.03	1.65	1.35	1.56	1.57	1.14	1.29	1.58	1.58	1.51
22 Ogden Avenue, Des Plaines River	1.25	0.92	2.00	1.36	1.60	1.49	1.11	1.48	1.75	1.52	1.49
23 Willow Springs Road, Des Plaines River	1.23	0.99	1.26	1.57	1.69	1.67	1.08	1.39	1.39	1.57	1.48
29 Stephen Street, Des Plaines River	1.29	1.02	1.52	1.50	1.87	1.35	1.15	1.52	1.67	1.62	1.85
91 Material Service Road, Des Plaines River	1.29	1.02	1.62	1.49	1.63	1.63	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	2.49	2.35	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-58: AMMONIUM NITROGEN MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.300	0.470	ND	ND	ND	0.238	0.209
106 Dundee Road, West Fork North Branch Chicago River	0.228	0.565	0.327	0.145	0.445	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.265	0.232	0.215	0.797	0.277	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.190	0.205	0.178	0.124	0.139	0.169	0.038	0.048	0.109	0.074	0.134
104 Glenview Road, North Branch Chicago River	0.144	0.223	0.113	0.086	0.103	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.320	0.166	0.221	0.110	0.190	0.187	0.077	0.083	0.091	0.184	0.189
105 Frontage Road, Skokie River	0.152	0.166	0.103	0.058	0.100	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.154	0.191	0.167	0.361	0.336	0.158	0.039	0.064	0.099	0.224	0.125
96 Albany Avenue, North Branch Chicago River	0.153	0.158	0.153	0.241	0.477	0.413	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.071	0.310	0.331	0.313	0.183	0.301	0.348	0.413	0.020	1.197	0.127
102 Oakton Street, North Shore Channel	0.773	0.885	0.930	0.696	0.376	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.718	1.348	1.548	0.987	1.063	1.273	0.921	0.911	1.470	2.474	1.576
101 Foster Avenue, North Shore Channel	2.104	2.176	1.828	1.428	1.185	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.881	2.005	1.365	1.153	1.083	1.653	1.772	1.158	1.701	2.609	1.663
73 Diversey Parkway, North Branch Chicago River	1.091	1.276	1.197	0.959	0.863	1.227	0.883	0.583	1.368	1.923	1.016
46 Grand Avenue, North Branch Chicago River	1.617	1.415	1.216	1.171	0.968	1.201	0.954	0.992	1.272	1.799	1.706
74 Lake Shore Drive, Chicago River	0.400	0.339	0.348	0.238	0.413	0.372	0.215	0.137	0.067	0.153	0.109
100 Wells Street, Chicago River	0.583	0.686	0.798	0.500	0.462	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	1.361	1.197	1.270	1.142	0.879	0.906	0.822	0.538	0.607	0.837	0.642
108 Loomis Street, South Branch Chicago River	1.360	1.251	0.819	0.988	0.587	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	1.320	1.136	1.062	1.123	1.715	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	1.277	1.185	0.969	ND	ND	1.116	0.847	0.524	0.920	1.090	0.585
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.968	0.878	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.175	1.107	0.941	0.869	0.769	0.843	0.793	0.403	0.721	1.256	1.036
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.941	0.508	0.499	0.534	0.754	0.438	0.357	0.495	0.716	1.318	1.217
42 Route 83, Chicago Sanitary & Ship Canal	0.816	0.649	0.643	0.655	0.756	0.630	0.604	0.636	1.184	1.416	1.193
48 Stephen Street, Chicago Sanitary & Ship Canal	0.797	0.564	0.598	0.718	0.721	0.692	0.601	0.486	0.858	1.281	1.352
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.619	0.449	0.343	0.444	0.614	0.809
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.654	0.635	0.588	0.502	0.654	0.595	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.109	0.114	0.124	0.063	0.108	0.113	0.056	0.044	0.010	0.051	0.077
50 Burnham Avenue, Wolf Lake	0.183	0.203	0.118	0.018	0.087	0.092	0.056	0.018	0.003	0.045	0.045
55 130th Street, Calumet River	0.235	0.240	0.249	0.098	0.214	0.195	0.124	0.114	0.083	0.162	0.135
86 Burnham Avenue, Grand Calumet River	1.659	1.399	1.735	0.952	0.934	1.586	1.059	0.417	0.632	3.459	3.950
56 Indiana Avenue, Little Calumet River	0.199	0.256	0.317	0.115	0.127	0.307	0.276	0.307	0.396	0.755	0.919
76 Halsted Street, Little Calumet River	0.284	0.298	0.268	0.188	0.355	0.332	0.332	0.348	0.488	2.410	1.912
52 Wentworth Avenue, Little Calumet River	0.365	0.360	0.319	0.230	0.274	0.278	0.297	0.161	0.181	0.201	0.197
54 Joe Orr Road, Thorn Creek	0.240	0.324	0.127	0.116	0.110	0.380	0.057	0.034	0.124	0.734	0.324
97 170th Street, Thorn Creek	0.315	0.304	0.248	0.253	0.275	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.355	0.379	0.330	0.182	0.248	0.295	0.232	0.183	0.204	0.212	0.629
58 Ashland Avenue, Calumet Sag Channel	0.320	0.298	0.294	0.186	0.415	0.374	0.346	0.291	0.484	0.962	1.601
59 Cicero Avenue, Calumet Sag Channel	0.360	0.356	0.256	0.252	0.448	0.490	0.406	0.336	0.526	1.011	2.458
43 Route 83, Calumet Sag Channel	0.321	0.438	0.260	0.317	0.513	0.336	0.375	0.309	0.659	0.892	2.032
Des Plaines River System											
90 Route 19, Poplar Creek	0.108	0.107	0.149	0.034	0.105	0.106	0.067	0.075	0.074	0.073	0.047
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.240	ND	0.305	0.154	0.131	0.135	0.225	0.368	0.196
89 Walnut Lane, West Branch DuPage River	0.273	0.332	0.482	0.117	0.294	0.341	0.367	0.192	0.191	0.258	0.145
64 Lake Street, West Branch DuPage River	0.482	0.552	0.596	0.287	0.460	0.645	0.421	0.601	0.415	0.387	0.228
79 Higgins Road, Salt Creek	0.100	0.140	0.214	0.090	0.106	0.172	0.067	0.118	0.076	0.156	0.226
80 Arlington Heights Road, Salt Creek	0.157	0.382	0.465	0.299	0.192	0.145	0.090	0.178	0.137	0.285	0.246
18 Devon Avenue, Salt Creek	0.193	0.313	0.501	0.360	0.228	0.161	0.093	0.243	0.132	0.358	0.206
24 Wolf Road, Salt Creek	0.163	0.195	0.241	0.218	0.171	0.196	0.127	0.155	0.131	0.208	0.160
109 Brookfield Avenue, Salt Creek	0.166	0.186	0.211	0.178	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.347	0.160	0.192	0.105	0.134	0.121	0.207	0.120
77 Elmhurst Road, Higgins Creek	0.123	0.180	0.240	0.107	0.187	0.134	0.116	0.158	0.107	0.186	0.192
78 Wille Road, Higgins Creek	0.269	0.437	0.331	0.211	0.250	0.396	0.245	0.297	0.515	0.151	0.259
12 Lake-Cook Road, Buffalo Creek	0.144	0.151	0.186	0.117	0.108	0.134	0.071	0.088	0.056	0.092	0.067
13 Lake-Cook Road, Des Plaines River	0.190	0.179	0.162	0.091	0.104	0.143	0.108	0.177	0.083	0.127	0.436
17 Oakton Steet, Des Plaines River	0.145	0.192	0.150	0.071	0.093	0.107	0.075	0.100	0.075	0.108	0.103
19 Belmont Avenue, Des Plaines River	0.143	0.273	0.198	0.118	0.157	0.177	0.116	0.223	0.171	0.184	0.276
20 Roosevelt Road, Des Plaines River	0.143	0.188	0.166	0.097	0.140	0.145	0.093	0.183	0.205	0.136	0.135
22 Ogden Avenue, Des Plaines River	0.161	0.134	0.144	0.107	0.127	0.150	0.089	0.128	0.190	0.142	0.092
23 Willow Springs Road, Des Plaines River	0.124	0.155	0.162	0.072	0.134	0.160	0.089	0.175	0.080	0.101	0.090
29 Stephen Street, Des Plaines River	0.111	0.109	0.166	0.100	0.121	0.146	0.077	0.151	0.128	0.150	0.330
91 Material Service Road, Des Plaines River	0.122	0.119	0.161	0.057	0.115	0.140	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.454	0.541	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-59: UN-IONIZED AMMONIA MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.001	0.004	ND	ND	ND	ND	0.007	0.009
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.006	0.006	0.001	0.007	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.003	0.005	0.003	0.008	0.007	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.002	0.003	0.001	0.002	0.006	0.001	0.002	0.002	0.003	0.005	0.005
104 Glenview Road, North Branch Chicago River	0.002	0.002	0.003	0.001	0.003	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.011	0.002	0.003	0.001	0.003	0.007	0.002	0.001	0.002	0.016	0.014	0.014
105 Frontage Road, Skokie River	0.001	0.002	0.001	0.001	0.004	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.002	0.003	0.002	0.003	0.003	0.005	0.001	0.001	0.003	0.003	0.003	0.003
96 Albany Avenue, North Branch Chicago River	0.002	0.002	0.002	0.004	0.007	0.004	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.002	0.009	0.003	0.008	0.004	0.020	0.008	0.030	0.002	0.022	0.009	0.009
102 Oakton Street, North Shore Channel	0.005	0.011	0.007	0.006	0.003	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.012	0.010	0.009	0.013	0.007	0.051	0.021	0.035	0.027	0.035	0.017	0.017
101 Foster Avenue, North Shore Channel	0.019	0.011	0.007	0.011	0.006	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.021	0.035	0.017	0.010	0.011	0.058	0.033	0.052	0.050	0.045	0.015	0.015
73 Diversey Parkway, North Branch Chicago River	0.009	0.012	0.008	0.007	0.003	0.037	0.015	0.082	0.053	0.095	0.012	0.012
46 Grand Avenue, North Branch Chicago River	0.012	0.017	0.010	0.011	0.004	0.017	0.023	0.049	0.009	0.017	0.017	0.017
74 Lake Shore Drive, Chicago River	0.004	0.005	0.002	0.002	0.008	0.005	0.005	0.007	0.003	0.002	0.001	0.001
100 Wells Street, Chicago River	0.005	0.006	0.004	0.003	0.010	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.014	0.007	0.006	0.007	0.008	0.011	0.051	0.023	0.007	0.010	0.007	0.007
108 Loomis Street, South Branch Chicago River	0.017	0.012	0.007	0.014	0.004	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.009	0.008	0.008	0.010	0.018	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.011	0.011	0.007	ND	ND	0.012	0.026	0.081	0.013	0.015	0.006	0.006
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.009	0.006	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.023	0.011	0.008	0.019	0.005	0.007	0.031	0.051	0.051	0.022	0.005	0.005
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.007	0.006	0.003	0.003	0.005	0.006	0.006	0.021	0.010	0.016	0.004	0.004
42 Route 83, Chicago Sanitary & Ship Canal	0.006	0.006	0.003	0.004	0.004	0.006	0.019	0.031	0.016	0.016	0.008	0.008
48 Stephen Street, Chicago Sanitary & Ship Canal	0.003	0.004	0.003	0.005	0.004	0.008	0.015	0.020	0.009	0.017	0.028	0.028
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.007	0.007	0.006	0.005	0.004	0.008	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.001	0.004	0.002	0.002	0.002	0.005	0.003	0.003	0.000	0.006	0.001	0.001
50 Burnham Avenue, Wolf Lake	0.003	0.004	0.008	0.001	0.003	0.005	0.003	0.001	0.000	0.004	0.001	0.001
55 130th Street, Calumet River	0.004	0.005	0.006	0.004	0.002	0.004	0.005	0.005	0.001	0.032	0.009	0.009
86 Burnham Avenue, Grand Calumet River	0.015	0.016	0.048	0.024	0.009	0.048	0.028	0.009	0.003	0.120	0.028	0.028
56 Indiana Avenue, Little Calumet River	0.001	0.003	0.004	0.002	0.004	0.024	0.012	0.014	0.006	0.062	0.033	0.033
76 Halsted Street, Little Calumet River	0.003	0.002	0.002	0.002	0.002	0.005	0.009	0.007	0.017	0.011	0.032	0.032
52 Wentworth Avenue, Little Calumet River	0.002	0.004	0.005	0.003	0.003	0.011	0.007	0.010	0.003	0.052	0.010	0.010
54 Joe Orr Road, Thorn Creek	0.001	0.002	0.001	0.001	0.001	0.006	0.005	0.001	0.010	0.006	0.006	0.006
97 170th Street, Thorn Creek	0.001	0.003	0.003	0.004	0.002	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.002	0.009	0.004	0.002	0.002	0.003	0.012	0.007	0.020	0.003	0.007	0.007
58 Ashland Avenue, Calumet Sag Channel	0.001	0.002	0.003	0.002	0.003	0.004	0.012	0.021	0.020	0.006	0.024	0.024
59 Cicero Avenue, Calumet Sag Channel	0.002	0.003	0.003	0.001	0.006	0.003	0.015	0.012	0.022	0.022	0.030	0.030
43 Route 83, Calumet Sag Channel	0.002	0.006	0.004	0.001	0.009	0.003	0.030	0.023	0.043	0.009	0.017	0.017
Des Plaines River System												
90 Route 19, Poplar Creek	0.002	0.002	0.002	0.001	0.001	0.007	0.004	0.003	0.002	0.002	0.001	0.001
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.003	ND	0.002	0.011	0.003	0.014	0.003	0.036	0.007	0.007
89 Walnut Lane, West Branch DuPage River	0.003	0.003	0.004	0.001	0.004	0.038	0.018	0.006	0.002	0.015	0.004	0.004
64 Lake Street, West Branch DuPage River	0.005	0.005	0.005	0.006	0.006	0.148	0.018	0.035	0.008	0.020	0.005	0.005
79 Higgins Road, Salt Creek	0.002	0.001	0.002	0.004	0.001	0.024	0.007	0.011	0.002	0.005	0.046	0.046
80 Arlington Heights Road, Salt Creek	0.006	0.003	0.004	0.002	0.002	0.024	0.003	0.008	0.010	0.005	0.014	0.014
18 Devon Avenue, Salt Creek	0.006	0.002	0.005	0.002	0.011	0.029	0.003	0.011	0.003	0.004	0.007	0.007
24 Wolf Road, Salt Creek	0.002	0.003	0.002	0.003	0.003	0.004	0.012	0.003	0.003	0.008	0.005	0.005
109 Brookfield Avenue, Salt Creek	0.002	0.002	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.001	0.002	0.002	0.013	0.003	0.002	0.006	0.001	0.001
77 Elmhurst Road, Higgins Creek	0.003	0.003	0.003	0.001	0.004	0.004	0.016	0.005	0.003	0.006	0.012	0.012
78 Wille Road, Higgins Creek	0.003	0.007	0.005	0.001	0.005	0.006	0.022	0.007	0.059	0.006	0.014	0.014
12 Lake-Cook Road, Buffalo Creek	0.001	0.003	0.003	0.005	0.002	0.012	0.004	0.007	0.001	0.003	0.004	0.004
13 Lake-Cook Road, Des Plaines River	0.003	0.004	0.002	0.002	0.002	0.014	0.007	0.011	0.002	0.012	0.009	0.009
17 Oakton Steet, Des Plaines River	0.002	0.003	0.003	0.001	0.002	0.002	0.016	0.002	0.002	0.005	0.008	0.008
19 Belmont Avenue, Des Plaines River	0.002	0.004	0.004	0.001	0.003	0.002	0.017	0.005	0.005	0.007	0.007	0.007
20 Roosevelt Road, Des Plaines River	0.001	0.004	0.004	0.001	0.002	0.004	0.014	0.003	0.002	0.005	0.004	0.004
22 Ogden Avenue, Des Plaines River	0.002	0.002	0.001	0.001	0.002	0.001	0.011	0.003	0.027	0.004	0.001	0.001
23 Willow Springs Road, Des Plaines River	0.003	0.002	0.003	0.001	0.002	0.004	0.010	0.004	0.003	0.007	0.006	0.006
29 Stephen Street, Des Plaines River	0.002	0.001	0.003	0.002	0.002	0.005	0.010	0.005	0.004	0.011	0.022	0.022
91 Material Service Road, Des Plaines River	0.003	0.002	0.003	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.005	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-60: ORGANIC NITROGEN MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	1.02	1.71	ND	ND	ND	1.70	1.40
106 Dundee Road, West Fork North Branch Chicago River	1.08	1.01	1.56	1.38	1.71	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.15	0.81	1.04	1.21	1.22	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1.17	0.85	1.06	1.14	1.20	1.50	1.09	0.93	1.11	0.98	0.97
104 Glenview Road, North Branch Chicago River	1.07	0.77	1.22	1.12	1.33	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	1.35	0.91	0.75	1.07	0.98	0.91	0.95	0.72	1.07	0.92	0.92
105 Frontage Road, Skokie River	1.10	0.80	1.05	1.20	1.26	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1.06	0.85	0.95	1.22	1.38	1.29	1.17	0.97	1.37	1.20	1.04
96 Albany Avenue, North Branch Chicago River	1.16	0.78	1.01	1.15	1.48	1.19	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.32	0.24	0.51	0.71	0.44	0.75	0.92	0.42	0.36	1.06	0.39
102 Oakton Street, North Shore Channel	0.77	0.57	0.98	1.11	0.73	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.37	1.00	1.21	1.61	1.60	1.37	1.56	1.17	1.36	1.70	1.29
101 Foster Avenue, North Shore Channel	1.43	1.14	1.19	1.55	1.52	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.31	1.06	1.27	1.45	1.57	1.45	1.56	1.04	1.23	1.56	1.37
73 Diversey Parkway, North Branch Chicago River	1.16	0.92	1.20	1.37	1.57	1.30	1.31	1.00	1.07	1.45	1.02
46 Grand Avenue, North Branch Chicago River	1.20	0.84	0.94	1.34	1.37	1.20	1.23	0.95	0.99	1.26	1.23
74 Lake Shore Drive, Chicago River	0.34	0.31	0.38	0.43	0.59	0.73	0.41	0.31	0.44	0.28	0.23
100 Wells Street, Chicago River	0.57	0.56	0.79	0.60	0.61	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.95	0.73	1.08	1.32	1.06	1.46	0.93	1.13	0.76	0.88	0.63
108 Loomis Street, South Branch Chicago River	0.97	0.75	0.87	1.04	1.01	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	1.14	0.94	1.01	1.50	1.64	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	1.03	0.81	1.00	ND	ND	1.20	0.95	0.79	0.93	0.94	0.85
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	1.23	1.14	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.92	0.70	1.02	1.28	1.15	1.14	0.85	1.07	0.87	1.05	1.04
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.99	0.69	1.01	1.15	1.16	1.28	1.07	1.01	1.33	1.54	1.22
42 Route 83, Chicago Sanitary & Ship Canal	0.99	0.80	0.98	1.31	1.18	1.02	1.09	1.22	1.30	1.38	1.21
48 Stephen Street, Chicago Sanitary & Ship Canal	0.96	0.76	0.98	1.19	1.15	1.24	1.11	1.00	1.19	1.21	1.40
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	1.35	1.33	1.37	1.45	1.64	0.63
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.02	0.75	0.99	1.16	1.21	1.24	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.15	0.09	0.12	0.29	0.30	0.40	0.57	0.44	0.36	0.71	0.35
50 Burnham Avenue, Wolf Lake	0.55	0.37	0.40	0.47	0.53	0.64	0.46	0.53	0.72	0.63	0.56
55 130th Street, Calumet River	0.47	0.20	0.33	0.61	0.64	0.46	0.56	0.38	0.43	0.51	0.49
86 Burnham Avenue, Grand Calumet River	2.65	1.25	2.12	1.94	1.64	2.73	2.29	1.69	1.35	2.90	2.21
56 Indiana Avenue, Little Calumet River	0.64	0.69	0.69	0.90	0.92	0.70	0.82	0.69	0.80	0.99	0.86
76 Halsted Street, Little Calumet River	0.98	0.70	0.89	1.20	1.23	1.17	1.05	0.92	1.17	1.41	1.20
52 Wentworth Avenue, Little Calumet River	1.25	1.09	1.26	1.35	1.46	1.75	2.09	2.49	1.35	1.55	1.08
54 Joe Orr Road, Thorn Creek	1.31	0.94	1.06	1.36	1.42	1.54	1.37	1.19	1.25	1.43	1.27
97 170th Street, Thorn Creek	1.02	0.81	1.03	1.21	1.30	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.23	0.77	0.90	1.24	1.35	1.16	1.21	1.24	1.20	1.21	1.12
58 Ashland Avenue, Calumet Sag Channel	0.98	0.73	0.93	1.16	1.13	1.12	1.03	0.82	1.13	1.18	1.30
59 Cicero Avenue, Calumet Sag Channel	1.05	0.83	1.01	1.24	1.22	1.73	1.06	1.04	1.31	1.26	1.28
43 Route 83, Calumet Sag Channel	0.93	0.72	1.06	1.19	1.43	1.12	1.05	0.94	1.26	1.60	1.15
Des Plaines River System											
90 Route 19, Poplar Creek	0.83	0.57	0.88	0.83	0.92	1.20	1.71	0.66	1.14	1.07	1.05
63 Longmeadow Lane, West Branch DuPage River	ND	ND	1.69	ND	1.58	1.50	1.68	1.52	1.60	1.82	1.72
89 Walnut Lane, West Branch DuPage River	1.66	1.23	1.79	1.71	2.00	2.03	2.27	2.15	1.93	1.86	1.83
64 Lake Street, West Branch DuPage River	1.61	1.37	1.77	1.77	2.07	2.06	1.83	1.92	2.01	1.85	1.87
79 Higgins Road, Salt Creek	1.31	0.93	1.25	1.51	1.38	1.65	1.11	1.19	1.29	1.11	1.44
80 Arlington Heights Road, Salt Creek	1.01	0.88	1.37	1.53	1.45	1.60	1.37	1.27	1.44	1.38	1.41
18 Devon Avenue, Salt Creek	1.22	1.04	1.36	1.51	1.52	1.57	1.38	1.09	1.37	1.66	1.70
24 Wolf Road, Salt Creek	1.09	0.71	1.23	1.23	1.35	1.41	1.10	0.97	1.43	1.81	1.51
109 Brookfield Avenue, Salt Creek	1.07	0.70	1.27	1.23	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	1.22	1.23	1.43	1.32	0.92	1.38	1.39	1.31
77 Elmhurst Road, Higgins Creek	1.17	0.56	1.16	1.20	1.16	1.28	1.17	0.66	0.81	1.04	1.12
78 Wille Road, Higgins Creek	1.24	1.01	1.16	1.44	1.60	1.95	1.50	1.07	1.58	1.29	1.40
12 Lake-Cook Road, Buffalo Creek	1.21	0.66	1.22	1.40	1.11	1.36	1.04	0.90	1.18	1.20	1.04
13 Lake-Cook Road, Des Plaines River	1.15	0.80	1.35	1.69	1.38	1.68	1.12	1.08	1.25	1.00	1.17
17 Oakton Steet, Des Plaines River	1.16	0.83	1.39	1.45	1.45	1.48	1.11	1.14	1.28	1.38	1.56
19 Belmont Avenue, Des Plaines River	1.13	0.68	1.47	1.30	1.51	2.09	1.01	1.03	1.37	1.40	1.45
20 Roosevelt Road, Des Plaines River	1.06	0.84	1.48	1.25	1.42	1.43	1.04	1.10	1.38	1.44	1.37
22 Ogden Avenue, Des Plaines River	1.09	0.79	1.86	1.26	1.47	1.34	1.02	1.35	1.56	1.37	1.40
23 Willow Springs Road, Des Plaines River	1.11	0.83	1.10	1.50	1.56	1.51	0.99	1.22	1.31	1.47	1.40
29 Stephen Street, Des Plaines River	1.18	0.91	1.35	1.40	1.74	1.20	1.08	1.36	1.54	1.47	1.52
91 Material Service Road, Des Plaines River	1.17	0.90	1.45	1.44	1.51	1.49	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	2.04	1.81	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-61: NITRITE PLUS NITRATE NITROGEN MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	2.60	7.57	ND	ND	ND	9.14	7.84
106 Dundee Road, West Fork North Branch Chicago River	7.14	9.95	5.27	4.00	5.14	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	3.88	2.86	2.97	4.03	3.11	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.24	0.33	0.35	0.38	0.37	0.35	0.41	0.51	0.43	0.37	0.47
104 Glenview Road, North Branch Chicago River	5.93	4.79	3.81	4.67	3.22	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	3.41	0.77	1.07	0.46	0.46	0.52	0.55	0.58	0.80	0.50	0.68
105 Frontage Road, Skokie River	7.00	5.74	6.42	5.83	3.87	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	5.06	4.24	5.10	4.57	2.65	4.51	4.93	3.85	5.13	5.01	3.39
96 Albany Avenue, North Branch Chicago River	4.64	4.75	4.24	4.24	3.05	5.37	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.23	0.35	1.00	0.34	0.28	0.29	0.32	0.22	0.25	0.20	0.24
102 Oakton Street, North Shore Channel	2.44	2.13	2.25	3.66	1.27	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	5.24	5.37	5.90	5.58	5.57	5.59	5.67	5.74	5.56	4.85	4.16
101 Foster Avenue, North Shore Channel	5.97	5.93	6.72	6.11	6.69	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	6.29	6.26	6.50	5.84	5.94	6.17	6.28	6.38	5.87	5.61	4.99
73 Diversey Parkway, North Branch Chicago River	6.04	6.50	6.02	5.29	5.48	5.49	6.23	5.46	5.16	5.44	4.51
46 Grand Avenue, North Branch Chicago River	5.77	5.36	5.86	5.47	4.86	5.63	5.51	5.27	4.74	4.92	4.71
74 Lake Shore Drive, Chicago River	1.07	1.50	1.38	1.38	1.93	1.84	1.08	0.96	0.39	0.42	0.31
100 Wells Street, Chicago River	2.22	2.52	3.41	2.31	2.33	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	4.37	4.68	5.19	4.37	3.61	4.28	4.33	3.41	2.39	2.58	2.19
108 Loomis Street, South Branch Chicago River	4.35	4.76	4.40	4.27	3.45	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	4.05	4.17	4.52	3.55	2.55	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.22	4.64	4.73	ND	ND	4.42	3.42	3.21	2.84	2.75	2.47
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	4.24	3.27	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.06	4.63	4.49	4.30	3.54	4.30	3.58	3.04	2.89	2.54	2.52
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.67	7.64	7.84	6.81	6.26	7.00	7.01	6.97	6.18	6.83	5.52
42 Route 83, Chicago Sanitary & Ship Canal	5.97	6.93	7.17	6.24	5.61	5.84	5.80	5.64	5.57	6.37	4.90
48 Stephen Street, Chicago Sanitary & Ship Canal	5.51	6.27	6.36	5.77	5.27	5.15	5.10	5.10	5.07	5.20	4.43
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	6.13	4.87	4.48	4.59	5.11	4.66
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6.01	5.74	6.24	5.94	5.31	5.52	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.37	0.36	0.35	0.50	0.46	0.38	0.36	0.34	0.31	0.33	0.28
50 Burnham Avenue, Wolf Lake	0.13	0.11	0.09	0.10	0.16	0.09	0.78	0.12	0.23	0.16	0.10
55 130th Street, Calumet River	0.60	0.52	0.48	0.57	0.67	0.56	0.53	0.48	0.52	0.48	0.39
86 Burnham Avenue, Grand Calumet River	5.19	5.00	5.91	8.56	9.06	8.48	8.48	12.32	11.89	8.16	6.74
56 Indiana Avenue, Little Calumet River	1.37	1.36	1.78	2.39	1.95	1.86	1.79	3.18	4.04	1.64	1.04
76 Halsted Street, Little Calumet River	5.33	4.79	4.57	5.36	4.80	4.32	4.27	4.14	4.55	3.55	2.55
52 Wentworth Avenue, Little Calumet River	4.27	3.57	4.16	5.39	3.32	4.18	4.53	3.82	3.75	4.20	3.89
54 Joe Orr Road, Thorn Creek	6.39	7.33	7.67	9.86	6.81	7.92	7.68	6.80	6.79	7.59	8.58
97 170th Street, Thorn Creek	5.97	5.67	6.76	7.13	4.04	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	3.67	3.06	4.01	4.35	3.07	4.31	3.71	2.82	3.64	3.56	3.65
58 Ashland Avenue, Calumet Sag Channel	5.17	4.51	4.57	5.39	4.57	4.22	3.32	3.59	3.78	3.34	2.53
59 Cicero Avenue, Calumet Sag Channel	5.22	4.58	4.48	5.39	4.26	4.26	3.40	3.78	3.91	3.26	2.39
43 Route 83, Calumet Sag Channel	5.35	4.38	4.11	4.67	4.25	4.20	3.37	3.50	3.97	3.33	2.76
Des Plaines River System											
90 Route 19, Poplar Creek	0.39	0.34	0.61	0.28	0.49	0.39	0.46	0.44	1.81	0.47	0.34
63 Longmeadow Lane, West Branch DuPage River	ND	ND	1.74	ND	1.32	0.63	2.88	2.57	2.13	1.84	1.73
89 Walnut Lane, West Branch DuPage River	8.85	9.43	7.58	7.13	7.24	6.98	8.01	8.34	8.89	7.91	8.58
64 Lake Street, West Branch DuPage River	8.64	8.83	7.32	6.70	6.79	5.78	6.86	8.52	7.87	8.24	8.72
79 Higgins Road, Salt Creek	0.27	0.25	0.45	0.23	0.28	0.47	0.26	0.51	0.29	0.33	0.29
80 Arlington Heights Road, Salt Creek	7.98	6.01	6.22	7.69	6.92	6.27	7.07	7.46	5.18	5.13	5.81
18 Devon Avenue, Salt Creek	8.19	6.40	6.46	7.32	7.22	6.40	7.31	7.24	4.70	5.32	5.53
24 Wolf Road, Salt Creek	8.12	6.54	6.71	7.66	5.87	5.27	6.67	6.97	5.84	6.49	6.51
109 Brookfield Avenue, Salt Creek	6.98	5.78	5.42	8.16	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	5.10	5.34	4.80	6.35	6.94	6.57	5.75	6.14
77 Elmhurst Road, Higgins Creek	0.44	0.47	0.55	0.41	0.58	0.46	0.34	0.34	0.45	0.73	0.32
78 Wille Road, Higgins Creek	9.44	5.42	4.85	5.67	5.44	4.25	4.99	6.96	5.85	4.41	5.02
12 Lake-Cook Road, Buffalo Creek	0.36	0.32	0.37	0.22	0.48	0.51	0.41	0.44	0.33	0.51	0.39
13 Lake-Cook Road, Des Plaines River	7.69	6.53	6.79	6.05	4.94	5.24	5.02	4.92	4.35	5.14	4.30
17 Oakton Steet, Des Plaines River	6.43	5.46	4.97	4.84	4.18	3.80	5.32	4.23	3.66	4.56	4.16
19 Belmont Avenue, Des Plaines River	5.93	4.69	4.56	4.62	3.87	3.54	4.54	4.00	3.87	4.16	3.98
20 Roosevelt Road, Des Plaines River	5.49	4.38	4.40	4.50	3.69	3.42	4.26	3.83	3.75	4.03	3.88
22 Ogden Avenue, Des Plaines River	5.79	4.70	5.91	5.21	3.98	3.78	5.02	4.75	4.45	4.20	4.35
23 Willow Springs Road, Des Plaines River	5.69	4.67	4.30	4.93	3.85	3.89	4.77	4.58	4.44	4.29	4.16
29 Stephen Street, Des Plaines River	6.04	4.69	5.03	5.18	3.70	3.91	4.61	4.64	4.55	4.27	4.51
91 Material Service Road, Des Plaines River	6.26	4.39	4.83	4.98	3.68	4.52	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.69	1.22	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-62: TOTAL SOLIDS MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	1941	1948	ND	ND	ND	ND	811	696
106 Dundee Road, West Fork North Branch Chicago River	1050	1300	645	926	941	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1232	776	790	749	741	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	888	646	687	693	708	770	693	749	727	763	689	689
104 Glenview Road, North Branch Chicago River	756	711	733	631	631	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	858	712	682	661	737	828	704	772	840	819	693	693
105 Frontage Road, Skokie River	696	622	637	606	611	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	885	808	880	688	754	863	726	729	859	860	692	692
96 Albany Avenue, North Branch Chicago River	934	684	651	724	674	616	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	244	250	292	321	230	363	299	276	246	320	240	240
102 Oakton Street, North Shore Channel	423	344	359	416	270	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	511	511	491	461	542	574	573	529	512	511	552	552
101 Foster Avenue, North Shore Channel	546	493	469	478	473	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	613	565	561	520	616	654	663	596	585	557	611	611
73 Diversey Parkway, North Branch Chicago River	570	543	565	514	642	654	655	592	622	590	565	565
46 Grand Avenue, North Branch Chicago River	597	591	610	503	602	587	596	620	547	618	617	617
74 Lake Shore Drive, Chicago River	274	300	312	314	403	402	297	320	235	237	230	230
100 Wells Street, Chicago River	369	382	409	366	378	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	483	464	500	469	565	517	484	492	370	418	391	391
108 Loomis Street, South Branch Chicago River	476	459	495	476	419	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	474	471	484	476	451	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	477	487	485	ND	ND	552	486	536	435	500	391	391
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	482	488	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	495	514	502	498	522	517	478	547	435	525	499	499
41 Harlem Avenue, Chicago Sanitary & Ship Canal	530	550	531	506	584	619	613	608	555	569	544	544
42 Route 83, Chicago Sanitary & Ship Canal	578	597	568	557	636	566	608	595	580	585	554	554
48 Stephen Street, Chicago Sanitary & Ship Canal	591	607	602	580	630	633	581	623	617	628	580	580
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	812	634	632	658	638	623	623
92 Lockport Forebay, Chicago Sanitary & Ship Canal	618	622	610	576	643	680	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	223	234	241	268	302	282	260	327	222	262	240	240
50 Burnham Avenue, Wolf Lake	279	275	245	247	265	255	231	286	265	272	245	245
55 130th Street, Calumet River	300	340	334	341	395	364	342	341	328	344	349	349
86 Burnham Avenue, Grand Calumet River	665	787	911	874	799	934	913	990	940	1364	1183	1183
56 Indiana Avenue, Little Calumet River	370	410	405	475	414	489	461	514	523	516	459	459
76 Halsted Street, Little Calumet River	559	579	547	547	622	697	664	589	647	734	649	649
52 Wentworth Avenue, Little Calumet River	612	745	828	838	706	835	772	740	814	818	662	662
54 Joe Orr Road, Thorn Creek	1293	1530	979	1602	1230	1140	1096	1182	1273	1090	943	943
97 170th Street, Thorn Creek	1252	1165	1308	1285	861	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	925	885	951	913	779	965	905	782	918	923	817	817
58 Ashland Avenue, Calumet Sag Channel	632	626	609	700	668	753	641	605	739	748	646	646
59 Cicero Avenue, Calumet Sag Channel	625	666	633	618	656	775	663	639	734	721	686	686
43 Route 83, Calumet Sag Channel	626	630	625	621	674	760	664	673	717	733	643	643
Des Plaines River System												
90 Route 19, Poplar Creek	766	756	662	711	733	657	672	810	776	845	709	709
63 Longmeadow Lane, West Branch DuPage River	ND	ND	646	ND	888	698	869	827	1020	963	1027	1027
89 Walnut Lane, West Branch DuPage River	619	650	608	591	645	651	622	615	628	755	692	692
64 Lake Street, West Branch DuPage River	701	697	632	661	710	658	630	684	709	772	742	742
79 Higgins Road, Salt Creek	1075	960	701	746	896	895	734	776	852	959	906	906
80 Arlington Heights Road, Salt Creek	733	679	668	666	743	749	670	709	781	828	721	721
18 Devon Avenue, Salt Creek	866	751	714	648	754	771	693	734	861	846	719	719
24 Wolf Road, Salt Creek	823	762	739	774	783	821	757	955	833	943	846	846
109 Brookfield Avenue, Salt Creek	809	812	707	565	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	1387	810	806	731	854	816	872	827	827
77 Elmhurst Road, Higgins Creek	1110	1213	908	958	1120	879	858	1015	930	1081	992	992
78 Wille Road, Higgins Creek	716	707	672	764	785	733	700	786	833	828	758	758
12 Lake-Cook Road, Buffalo Creek	1018	803	765	764	860	810	716	753	802	842	777	777
13 Lake-Cook Road, Des Plaines River	742	699	713	707	676	709	627	714	713	731	695	695
17 Oakton Steet, Des Plaines River	779	689	663	733	711	679	642	738	717	808	698	698
19 Belmont Avenue, Des Plaines River	783	749	749	758	702	675	637	720	765	802	747	747
20 Roosevelt Road, Des Plaines River	775	732	648	774	703	681	639	724	775	793	750	750
22 Ogden Avenue, Des Plaines River	778	732	712	813	743	713	665	745	804	805	779	779
23 Willow Springs Road, Des Plaines River	773	724	670	732	724	732	673	761	772	815	742	742
29 Stephen Street, Des Plaines River	772	702	667	754	733	734	671	768	846	850	789	789
91 Material Service Road, Des Plaines River	805	731	708	788	712	798	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	1077	986	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-63: TOTAL VOLATILE SOLIDS MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.7	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	4.3	6.6	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	3.9	6.7	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	5.8	5.0	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	2.8	4.5	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	4.6	5.0	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	3.6	4.4	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	3.3	4.5	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	3.3	4.7	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	2.2	3.9	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	2.3	3.5	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	3.1	3.5	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	3.2	5.8	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	3.7	4.8	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	3.0	3.5	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	3.6	3.8	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	138.9	112.8	135.8	15.2	14.0	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	2.0	2.6	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	4.3	4.7	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	2.8	2.7	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	6.1	63.1	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	4.4	5.8	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	6.3	3.0	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	9.3	9.0	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	3.1	3.3	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	7.8	5.0	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	6.2	4.9	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	5.0	6.3	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	9.2	6.9	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	9.1	15.9	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	7.0	14.9	ND
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	5.9	15.8	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	8.7	17.3	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	9.4	14.0	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	4.4	7.2	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	6.6	15.8	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	8.6	13.8	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	9.5	16.3	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	5.9	16.4	ND
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	4.5	10.0	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	7.1	13.4	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	7.3	9.4	ND
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	8.6	12.8	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	9.2	11.8	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	9.3	10.4	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	9.6	10.8	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	7.5	13.8	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	8.4	13.8	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-64: TOTAL SUSPENDED SOLIDS MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	71.0	120.0	ND	ND	ND	97.0	40.6
106 Dundee Road, West Fork North Branch Chicago River	31.5	56.1	50.7	39.8	46.8	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	29.7	23.6	25.6	28.5	32.1	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	24.2	22.0	21.2	30.6	38.8	22.6	24.7	36.2	22.7	32.0	30.9
104 Glenview Road, North Branch Chicago River	18.8	22.8	30.3	25.9	22.8	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	21.6	21.0	18.7	18.1	21.8	14.3	24.0	15.2	13.2	23.9	32.6
105 Frontage Road, Skokie River	18.4	25.2	19.4	21.6	22.4	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	25.3	21.8	20.9	30.2	25.8	28.6	29.6	31.8	27.4	22.5	31.0
96 Albany Avenue, North Branch Chicago River	16.8	22.5	20.3	24.4	21.6	15.0	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	8.5	11.3	9.9	12.8	9.8	13.6	9.9	8.9	10.8	11.6	15.3
102 Oakton Street, North Shore Channel	11.6	15.2	19.7	20.5	16.6	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	10.9	15.4	9.4	15.3	8.5	10.8	10.3	10.3	9.4	11.5	13.7
101 Foster Avenue, North Shore Channel	12.2	12.7	9.6	15.4	10.4	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	15.0	13.9	12.3	18.5	16.8	15.0	13.0	10.6	12.3	13.1	14.8
73 Diversey Parkway, North Branch Chicago River	13.2	15.1	14.1	19.3	17.9	15.3	16.5	14.9	11.8	18.7	16.3
46 Grand Avenue, North Branch Chicago River	14.5	21.3	13.5	18.3	17.6	15.2	17.2	12.0	13.4	18.6	15.7
74 Lake Shore Drive, Chicago River	5.3	4.9	2.5	4.0	4.8	12.8	6.0	5.3	8.6	14.9	11.2
100 Wells Street, Chicago River	4.5	6.3	6.4	6.3	10.0	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	8.7	14.0	11.6	18.4	16.8	15.2	16.3	12.3	11.1	14.8	21.1
108 Loomis Street, South Branch Chicago River	12.6	11.8	12.5	12.2	17.9	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	12.5	13.2	11.8	14.4	19.8	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	12.7	14.6	13.7	ND	ND	19.1	14.0	13.4	13.8	13.6	28.8
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	19.3	19.6	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	13.0	17.8	13.9	15.1	20.8	16.5	18.5	13.7	14.2	16.8	18.5
41 Harlem Avenue, Chicago Sanitary & Ship Canal	9.6	8.5	8.1	11.6	10.8	11.5	13.2	10.0	12.2	14.3	11.8
42 Route 83, Chicago Sanitary & Ship Canal	7.5	9.0	10.6	11.5	12.1	8.8	8.3	10.5	11.2	9.0	15.3
48 Stephen Street, Chicago Sanitary & Ship Canal	15.0	15.8	16.2	13.4	15.2	16.8	11.5	15.3	15.9	17.5	29.3
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	19.2	37.0	57.4	64.3	38.3	12.1
92 Lockport Forebay, Chicago Sanitary & Ship Canal	14.5	14.6	14.7	15.1	15.5	15.6	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	6.7	9.7	8.7	7.1	11.3	12.6	12.3	15.3	10.8	14.5	27.7
50 Burnham Avenue, Wolf Lake	5.3	5.4	5.8	3.6	7.4	4.7	5.4	10.7	8.2	14.3	14.2
55 130th Street, Calumet River	6.5	7.7	9.3	12.5	20.7	14.0	8.6	10.4	12.3	12.8	10.7
86 Burnham Avenue, Grand Calumet River	49.9	18.9	17.0	16.2	16.9	23.5	16.4	18.2	14.6	182.6	30.9
56 Indiana Avenue, Little Calumet River	25.0	22.0	29.9	27.8	29.6	22.2	26.4	18.0	24.5	37.3	53.4
76 Halsted Street, Little Calumet River	11.3	14.8	10.5	15.2	15.4	11.6	12.7	20.7	26.3	17.3	26.6
52 Wentworth Avenue, Little Calumet River	37.9	32.4	28.7	30.5	53.5	55.4	67.3	94.4	67.2	64.1	33.6
54 Joe Orr Road, Thorn Creek	115.4	17.6	42.0	7.4	11.6	24.1	16.6	15.2	14.6	9.8	19.5
97 170th Street, Thorn Creek	55.4	40.5	30.2	24.1	38.3	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	45.7	30.5	33.0	23.0	39.4	28.5	34.9	57.3	42.0	31.9	32.0
58 Ashland Avenue, Calumet Sag Channel	15.0	18.8	24.4	17.3	27.7	17.9	18.2	18.9	35.4	29.7	29.2
59 Cicero Avenue, Calumet Sag Channel	14.3	20.3	24.0	21.1	20.7	19.8	22.3	27.6	28.5	39.7	48.2
43 Route 83, Calumet Sag Channel	15.5	20.1	35.9	25.9	35.8	28.2	23.7	24.3	40.0	46.6	39.9
Des Plaines River System											
90 Route 19, Poplar Creek	15.9	15.3	30.4	18.9	18.2	36.4	23.1	17.7	49.6	122.1	25.8
63 Longmeadow Lane, West Branch DuPage River	ND	ND	36.0	ND	30.3	40.0	21.1	22.6	25.6	83.0	85.0
89 Walnut Lane, West Branch DuPage River	12.3	15.4	18.3	16.1	18.8	23.5	19.6	13.5	16.8	74.1	55.0
64 Lake Street, West Branch DuPage River	38.5	32.5	40.3	33.2	42.0	45.9	35.5	32.8	37.7	86.5	48.7
79 Higgins Road, Salt Creek	41.4	25.5	44.6	38.0	33.9	41.2	33.7	29.0	41.0	77.5	37.4
80 Arlington Heights Road, Salt Creek	9.8	9.0	8.8	8.3	11.3	11.7	14.4	8.5	14.8	17.5	16.4
18 Devon Avenue, Salt Creek	14.2	19.0	19.9	15.7	23.1	27.4	31.3	13.8	35.8	47.1	18.2
24 Wolf Road, Salt Creek	28.9	23.1	43.3	23.4	31.0	37.6	33.0	24.7	48.4	66.6	51.5
109 Brookfield Avenue, Salt Creek	25.1	19.9	56.1	18.7	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	20.7	29.3	40.6	33.6	26.3	52.9	83.0	28.6
77 Elmhurst Road, Higgins Creek	29.3	29.2	34.8	36.0	28.2	39.3	43.9	22.8	30.1	105.9	83.5
78 Wille Road, Higgins Creek	3.4	7.6	5.9	7.0	5.5	12.4	5.0	11.9	12.8	42.3	34.7
12 Lake-Cook Road, Buffalo Creek	23.9	18.0	47.6	32.4	33.3	74.6	54.2	27.4	36.7	72.3	30.5
13 Lake-Cook Road, Des Plaines River	24.0	23.2	36.8	28.7	29.8	33.8	32.8	32.3	42.4	45.2	28.3
17 Oakton Steet, Des Plaines River	17.9	23.0	42.1	28.8	29.8	45.9	36.2	40.5	50.3	60.9	44.8
19 Belmont Avenue, Des Plaines River	23.2	22.3	41.8	28.5	26.3	32.2	27.7	24.0	53.3	60.3	44.8
20 Roosevelt Road, Des Plaines River	23.8	21.7	43.4	31.0	26.6	31.0	27.3	25.0	50.1	51.1	37.1
22 Ogdan Avenue, Des Plaines River	30.6	21.3	52.6	23.2	27.3	34.3	29.7	27.6	56.9	52.2	36.0
23 Willow Springs Road, Des Plaines River	22.3	24.0	33.4	24.0	33.2	43.9	30.5	37.9	44.1	59.9	39.3
29 Stephen Street, Des Plaines River	29.8	26.5	41.6	28.3	44.1	42.5	39.4	38.6	46.1	70.0	42.6
91 Material Service Road, Des Plaines River	35.0	28.2	46.1	30.1	45.1	38.7	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	30.5	49.2	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-65: VOLATILE SUSPENDED SOLIDS MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	12.00	19.00	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	6.75	9.38	13.33	6.50	7.60	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.40	7.30	5.63	5.64	6.20	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	5.10	4.30	4.78	6.00	6.36	4.60	5.09	6.25	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	5.50	5.42	7.33	5.22	5.30	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	6.00	5.20	4.56	4.70	4.45	3.50	4.64	3.50	ND	ND	ND	ND
105 Frontage Road, Skokie River	5.75	5.50	5.33	4.58	5.60	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	6.55	5.25	4.91	6.08	5.67	6.45	5.82	6.42	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	5.55	5.27	5.10	5.33	6.33	4.50	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	3.38	1.67	2.56	3.78	2.22	3.56	2.80	2.33	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	3.58	3.75	4.10	5.27	3.00	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	4.92	4.92	4.33	5.08	3.83	4.50	4.08	4.08	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	4.23	4.75	3.33	5.50	3.60	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	4.75	3.92	3.83	4.75	4.92	4.83	3.58	3.00	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	3.50	3.67	3.83	5.08	5.08	3.75	3.75	3.33	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	3.92	4.58	3.42	4.50	4.25	3.75	3.67	2.83	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	1.40	0.33	0.90	1.25	1.42	4.67	1.64	1.50	ND	ND	ND	ND
100 Wells Street, Chicago River	1.42	0.67	2.17	1.67	3.00	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	1.50	1.92	3.09	4.25	3.33	3.75	3.83	3.25	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	2.60	2.50	2.92	2.33	3.89	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	4.36	4.75	3.83	4.25	7.70	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	3.00	3.00	3.33	ND	ND	4.11	3.18	3.17	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	4.50	4.40	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	2.50	4.17	3.67	3.00	5.00	3.67	3.83	3.17	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.50	1.67	2.50	2.92	3.17	3.58	3.64	3.17	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	2.09	1.83	3.00	2.42	3.17	2.36	2.75	3.08	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	2.91	2.17	3.58	2.58	3.42	3.82	2.73	3.42	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	4.71	7.39	12.08	ND	ND	ND	5.34
92 Lockport Forebay, Chicago Sanitary & Ship Canal	3.21	2.94	3.69	3.48	3.57	3.68	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	3.09	0.40	1.25	1.42	1.58	2.00	2.05	2.21	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	2.50	1.58	2.83	1.58	3.45	2.08	2.25	4.33	ND	ND	ND	ND
55 130th Street, Calumet River	2.27	0.45	1.70	2.67	4.09	2.73	1.94	1.96	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	20.90	8.67	8.20	7.09	5.90	10.00	5.55	7.83	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	4.67	3.67	5.00	4.58	5.38	3.92	4.74	3.39	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	3.58	2.00	2.55	3.67	4.25	2.75	3.00	7.46	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	7.55	5.89	5.50	5.45	9.55	9.91	19.73	17.00	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	19.13	2.71	6.67	2.71	2.58	4.83	3.25	4.17	ND	ND	ND	ND
97 170th Street, Thorn Creek	7.64	6.45	5.60	4.17	5.90	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	9.00	5.10	6.30	4.75	6.70	4.91	5.91	9.33	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	2.58	3.92	5.00	3.58	5.83	3.50	3.63	3.44	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	3.00	3.08	4.91	4.25	4.17	3.25	4.00	5.00	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	4.55	4.30	5.64	5.50	6.25	5.00	4.00	4.33	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	4.91	3.60	6.20	4.78	4.45	6.29	4.70	4.00	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	8.00	ND	4.00	9.00	5.22	6.25	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	5.58	5.18	6.36	4.58	4.75	6.42	5.91	5.50	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	10.08	8.09	8.75	7.33	9.00	10.55	7.82	8.17	ND	ND	ND	ND
79 Higgins Road, Salt Creek	11.11	8.50	9.56	9.38	9.30	10.10	10.30	8.70	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	4.75	3.55	3.67	3.30	3.75	3.67	3.73	3.67	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	4.50	4.82	5.50	4.10	5.00	5.33	5.27	3.42	ND	ND	ND	ND
24 Wolf Road, Salt Creek	6.58	5.20	8.00	5.25	5.50	6.60	5.55	5.17	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	5.17	5.80	9.80	3.67	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	5.00	4.75	6.80	5.91	4.50	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	9.50	7.60	7.00	6.83	6.36	8.60	9.55	4.92	ND	ND	ND	ND
78 Wille Road, Higgins Creek	1.17	3.40	2.50	2.58	2.75	4.00	2.55	3.83	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	6.86	3.50	10.13	7.00	7.00	11.40	8.64	5.64	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	5.75	6.80	7.58	7.50	6.92	6.50	5.64	6.50	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	6.08	5.30	8.70	7.09	6.17	8.80	6.45	8.33	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	5.83	5.50	7.75	5.75	5.83	5.60	4.82	5.08	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	7.00	5.40	7.86	6.08	5.75	5.70	5.00	4.50	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	7.00	4.70	11.00	5.33	5.92	6.10	5.09	5.42	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	6.17	5.90	7.00	6.00	6.75	7.80	5.64	7.25	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	7.75	7.20	8.82	6.58	9.50	7.30	7.45	8.42	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	8.92	8.00	9.83	7.50	8.98	8.06	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	13.55	10.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-66: TOTAL DISSOLVED SOLIDS MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	1870	1828	ND	ND	ND	729	655
106 Dundee Road, West Fork North Branch Chicago River	1018	1244	595	886	894	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1202	753	764	721	709	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	864	624	666	663	669	747	669	713	705	715	658
104 Glenview Road, North Branch Chicago River	737	689	703	605	608	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	836	691	664	643	715	814	680	757	827	795	661
105 Frontage Road, Skokie River	677	596	617	584	589	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	860	786	859	658	729	835	697	697	832	858	661
96 Albany Avenue, North Branch Chicago River	917	662	630	700	652	601	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	236	239	282	309	220	350	289	267	235	316	225
102 Oakton Street, North Shore Channel	412	329	339	395	254	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	500	496	481	446	534	563	563	519	502	503	539
101 Foster Avenue, North Shore Channel	534	480	460	463	463	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	598	551	548	501	600	639	650	585	572	551	597
73 Diversey Parkway, North Branch Chicago River	557	528	551	495	624	639	639	577	610	578	549
46 Grand Avenue, North Branch Chicago River	582	570	597	485	585	572	579	608	533	610	601
74 Lake Shore Drive, Chicago River	269	295	309	310	398	389	291	315	227	221	219
100 Wells Street, Chicago River	364	376	403	360	368	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	474	450	488	450	548	502	467	480	359	410	370
108 Loomis Street, South Branch Chicago River	463	448	482	463	401	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	461	458	473	462	431	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	464	472	471	ND	ND	533	472	522	421	501	362
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	463	469	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	482	496	488	483	502	501	459	533	421	510	480
41 Harlem Avenue, Chicago Sanitary & Ship Canal	520	541	523	495	574	607	600	598	543	557	532
42 Route 83, Chicago Sanitary & Ship Canal	571	588	558	546	624	558	600	585	569	578	538
48 Stephen Street, Chicago Sanitary & Ship Canal	576	591	586	566	615	616	570	607	601	624	551
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	792	597	574	594	599	611
92 Lockport Forebay, Chicago Sanitary & Ship Canal	604	602	595	561	628	665	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	217	225	232	261	290	269	247	313	211	249	213
50 Burnham Avenue, Wolf Lake	273	269	239	243	258	250	226	275	257	258	231
55 130th Street, Calumet River	293	332	325	329	374	350	334	329	318	333	338
86 Burnham Avenue, Grand Calumet River	615	768	894	858	782	911	897	972	925	1181	1152
56 Indiana Avenue, Little Calumet River	345	388	375	447	385	466	440	496	503	479	405
76 Halsted Street, Little Calumet River	548	564	536	532	606	685	651	564	626	717	622
52 Wentworth Avenue, Little Calumet River	574	712	800	808	653	780	705	645	747	754	628
54 Joe Orr Road, Thorn Creek	1178	1512	937	1594	1218	1116	1080	1167	1258	1080	923
97 170th Street, Thorn Creek	1196	1124	1277	1261	822	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	879	854	918	890	739	937	870	725	876	891	785
58 Ashland Avenue, Calumet Sag Channel	617	608	585	683	641	735	622	588	708	719	617
59 Cicero Avenue, Calumet Sag Channel	611	646	609	597	636	756	639	614	706	682	636
43 Route 83, Calumet Sag Channel	610	610	589	595	638	732	638	649	675	688	604
Des Plaines River System											
90 Route 19, Poplar Creek	750	740	631	692	715	620	649	792	726	723	683
63 Longmeadow Lane, West Branch DuPage River	ND	ND	610	ND	858	658	848	804	994	880	942
89 Walnut Lane, West Branch DuPage River	607	635	590	575	626	628	603	602	611	681	637
64 Lake Street, West Branch DuPage River	663	654	592	627	668	612	595	651	671	685	693
79 Higgins Road, Salt Creek	1034	903	656	708	862	854	700	747	811	882	869
80 Arlington Heights Road, Salt Creek	723	663	659	658	732	738	655	701	766	811	704
18 Devon Avenue, Salt Creek	851	721	694	632	731	743	662	721	825	799	701
24 Wolf Road, Salt Creek	794	723	696	750	752	784	724	931	785	877	794
109 Brookfield Avenue, Salt Creek	784	772	650	547	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	1366	780	765	697	828	763	789	798
77 Elmhurst Road, Higgins Creek	1081	1040	873	922	1092	840	814	992	900	975	909
78 Wille Road, Higgins Creek	713	688	666	757	780	721	695	774	821	786	723
12 Lake-Cook Road, Buffalo Creek	994	734	717	731	827	735	662	726	765	769	747
13 Lake-Cook Road, Des Plaines River	718	664	677	678	646	675	594	682	670	685	666
17 Oakton Steet, Des Plaines River	761	651	620	704	681	633	606	697	667	747	653
19 Belmont Avenue, Des Plaines River	760	707	708	730	676	643	609	696	712	742	703
20 Roosevelt Road, Des Plaines River	752	691	605	743	676	650	611	699	725	742	713
22 Ogden Avenue, Des Plaines River	747	691	660	790	716	679	635	718	747	753	743
23 Willow Springs Road, Des Plaines River	751	675	637	708	690	688	642	723	728	755	703
29 Stephen Street, Des Plaines River	743	648	625	726	689	692	632	729	800	780	747
91 Material Service Road, Des Plaines River	770	679	662	758	667	759	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	1047	915	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-67: PHENOLS MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	21.0	10.0	ND	ND	ND	ND	10.5	11.6
106 Dundee Road, West Fork North Branch Chicago River	6.8	8.9	9.0	5.5	18.2	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	9.9	8.7	5.6	7.6	14.1	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	11.4	11.5	9.4	11.6	16.5	24.5	26.0	14.8	17.3	19.3	12.0	
104 Glenview Road, North Branch Chicago River	6.3	7.6	4.3	5.2	11.4	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	8.0	11.6	7.9	9.1	15.3	19.6	21.0	13.4	15.8	14.8	13.1	
105 Frontage Road, Skokie River	5.6	5.7	3.2	5.4	10.3	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	8.4	6.8	5.5	7.3	11.7	18.0	16.0	9.6	11.2	11.8	9.6	
96 Albany Avenue, North Branch Chicago River	8.3	8.9	6.4	6.6	13.1	14.5	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	4.3	6.6	2.8	4.5	4.6	13.3	12.4	10.3	8.8	15.1	10.0	
102 Oakton Street, North Shore Channel	7.1	7.8	6.5	6.0	7.9	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	9.1	9.4	7.3	9.0	14.3	22.2	20.4	13.4	13.5	12.3	9.3	
101 Foster Avenue, North Shore Channel	9.8	9.8	6.2	9.0	12.2	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	8.5	8.9	6.5	8.3	13.3	20.6	18.7	11.4	12.6	13.0	9.5	
73 Diversey Parkway, North Branch Chicago River	10.8	8.4	6.8	8.6	13.8	20.8	17.8	12.1	13.2	11.3	9.3	
46 Grand Avenue, North Branch Chicago River	9.8	10.3	5.3	8.5	15.0	21.4	18.8	14.1	13.1	11.8	9.9	
74 Lake Shore Drive, Chicago River	4.3	4.4	3.0	2.7	7.3	15.6	9.2	9.3	7.0	7.2	5.5	
100 Wells Street, Chicago River	4.8	7.6	3.8	3.8	11.9	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	7.6	9.1	7.6	6.7	10.9	23.0	15.8	12.7	9.3	8.0	6.8	
108 Loomis Street, South Branch Chicago River	7.7	8.6	5.5	7.4	9.6	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	8.7	9.5	5.8	9.5	17.7	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	8.3	8.3	5.6	ND	ND	23.0	15.6	11.3	12.1	8.8	9.7	
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	7.5	11.8	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.8	7.9	5.0	7.7	11.7	17.5	16.0	13.6	11.1	10.4	11.8	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.6	8.5	5.6	6.8	14.8	18.5	15.3	12.5	14.1	12.4	8.4	
42 Route 83, Chicago Sanitary & Ship Canal	9.5	9.7	6.2	8.7	13.4	19.1	17.4	13.4	10.4	10.8	10.7	
48 Stephen Street, Chicago Sanitary & Ship Canal	9.2	9.0	6.6	8.3	12.8	21.8	17.9	14.9	12.7	11.6	13.5	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	15.3	10.5	12.6	10.9	10.2	8.2	
92 Lockport Forebay, Chicago Sanitary & Ship Canal	8.8	8.6	5.7	7.5	10.9	18.5	ND	ND	ND	ND	ND	
Calumet River System												
49 Ewing Avenue, Calumet River	2.0	2.7	1.6	1.7	3.3	7.3	7.2	5.7	8.0	6.8	5.6	
50 Burnham Avenue, Wolf Lake	5.8	7.4	3.2	3.8	5.0	11.6	10.0	10.8	8.6	9.3	7.5	
55 130th Street, Calumet River	4.9	3.6	1.1	1.8	5.0	10.5	8.2	6.9	8.0	7.5	7.5	
86 Burnham Avenue, Grand Calumet River	16.1	11.9	7.6	6.1	8.0	22.8	20.0	14.4	10.4	34.5	12.0	
56 Indiana Avenue, Little Calumet River	5.0	5.6	2.5	4.1	6.0	13.1	15.3	7.4	7.6	6.2	8.0	
76 Halsted Street, Little Calumet River	9.9	8.9	7.2	9.4	11.4	24.1	46.6	13.8	12.8	13.3	12.1	
52 Wentworth Avenue, Little Calumet River	14.4	22.4	12.6	16.5	12.5	21.5	23.1	13.4	12.5	12.9	14.8	
54 Joe Orr Road, Thorn Creek	13.3	9.3	6.0	9.0	10.2	19.7	18.8	11.2	15.2	14.4	10.4	
97 170th Street, Thorn Creek	9.0	9.7	6.2	8.0	7.8	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	10.2	10.9	7.5	8.4	11.9	19.9	21.1	15.8	14.0	14.4	11.4	
58 Ashland Avenue, Calumet Sag Channel	9.1	9.3	7.8	8.8	11.8	21.1	22.6	17.5	15.3	13.7	13.1	
59 Cicero Avenue, Calumet Sag Channel	10.5	10.3	7.9	9.3	13.5	20.6	26.3	15.4	14.2	20.0	13.1	
43 Route 83, Calumet Sag Channel	10.0	9.7	5.5	10.2	11.5	19.1	21.5	16.1	12.7	13.8	12.3	
Des Plaines River System												
90 Route 19, Poplar Creek	10.4	8.6	6.5	5.3	10.4	17.3	16.3	14.2	16.1	11.1	8.8	
63 Longmeadow Lane, West Branch DuPage River	ND	ND	9.0	ND	18.0	20.1	18.8	14.3	14.4	17.9	9.6	
89 Walnut Lane, West Branch DuPage River	9.5	13.3	8.8	7.8	17.1	19.7	20.1	16.9	13.0	14.7	9.2	
64 Lake Street, West Branch DuPage River	8.2	9.1	7.9	6.3	15.8	22.5	19.3	15.3	13.6	14.7	10.5	
79 Higgins Road, Salt Creek	10.6	8.4	7.9	6.1	13.4	17.1	16.6	15.3	12.8	12.1	8.1	
80 Arlington Heights Road, Salt Creek	6.0	9.3	5.0	6.6	15.3	18.2	20.3	13.2	12.8	12.0	8.9	
18 Devon Avenue, Salt Creek	5.5	10.4	6.3	5.1	16.2	17.6	19.5	13.7	13.3	22.0	9.8	
24 Wolf Road, Salt Creek	5.8	6.7	6.0	5.7	12.4	17.1	16.3	9.5	12.7	10.2	9.6	
109 Brookfield Avenue, Salt Creek	8.6	7.6	5.4	5.7	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	4.7	11.9	20.1	16.3	11.9	11.5	10.5	9.6	
77 Elmhurst Road, Higgins Creek	11.3	13.0	12.2	5.8	14.9	28.4	21.6	14.4	17.0	12.8	9.1	
78 Wille Road, Higgins Creek	8.1	15.5	8.8	11.3	19.0	26.6	25.0	14.8	16.7	12.1	9.1	
12 Lake-Cook Road, Buffalo Creek	6.1	12.1	7.9	9.1	10.6	21.7	20.1	15.0	12.9	13.2	7.9	
13 Lake-Cook Road, Des Plaines River	6.2	7.6	4.4	4.6	11.4	18.3	16.7	12.4	12.6	10.2	7.2	
17 Oakton Steet, Des Plaines River	6.8	7.9	5.0	6.4	11.5	19.6	17.0	12.6	12.9	10.2	9.3	
19 Belmont Avenue, Des Plaines River	6.5	9.5	5.8	5.3	11.8	20.3	17.9	13.5	13.3	10.4	8.7	
20 Roosevelt Road, Des Plaines River	8.4	9.7	6.0	5.3	11.3	19.7	18.7	13.2	13.6	10.0	9.7	
22 Ogen Avenue, Des Plaines River	7.6	8.8	7.6	5.0	12.5	19.6	16.9	11.5	13.9	11.3	8.4	
23 Willow Springs Road, Des Plaines River	7.6	8.7	4.5	5.6	11.5	16.9	16.1	12.2	13.8	10.9	9.3	
29 Stephen Street, Des Plaines River	6.1	8.4	5.3	5.2	14.8	16.3	18.1	13.6	13.0	9.9	10.3	
91 Material Service Road, Des Plaines River	10.5	7.5	5.5	5.1	9.9	18.2	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	15.7	18.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-68: SULFATE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	74.5	77.0	ND	ND	ND	63.6	70.3
106 Dundee Road, West Fork North Branch Chicago River	63.0	76.5	64.3	61.8	67.2	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	75.4	75.3	76.4	64.5	61.8	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	86.3	76.3	76.4	72.3	69.0	72.0	71.9	77.9	62.9	72.5	81.2
104 Glenview Road, North Branch Chicago River	65.1	69.8	67.8	64.1	64.8	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	65.4	76.6	80.4	62.3	70.4	74.4	79.2	87.6	78.6	89.2	78.0
105 Frontage Road, Skokie River	63.4	67.4	64.9	64.8	62.3	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	68.6	72.4	71.6	61.9	63.2	76.1	72.4	77.9	79.4	81.7	88.5
96 Albany Avenue, North Branch Chicago River	68.3	72.3	74.0	69.0	65.8	59.1	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	26.8	33.8	36.6	34.9	25.6	32.5	34.3	34.1	32.1	34.3	39.4
102 Oakton Street, North Shore Channel	40.9	41.7	43.0	43.3	28.2	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	46.6	51.7	53.4	53.3	79.8	53.8	51.3	54.2	45.0	51.4	55.1
101 Foster Avenue, North Shore Channel	59.6	56.8	53.2	50.6	49.0	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	50.8	59.9	57.3	57.1	57.3	53.8	55.7	56.9	52.2	56.7	61.8
73 Diversey Parkway, North Branch Chicago River	50.9	62.2	59.0	55.6	58.2	55.8	68.5	56.5	48.8	61.1	64.7
46 Grand Avenue, North Branch Chicago River	54.1	60.6	58.9	56.3	56.3	55.4	59.2	60.1	53.1	60.2	76.6
74 Lake Shore Drive, Chicago River	29.7	36.8	35.6	32.0	32.0	39.3	32.6	29.9	24.8	28.1	40.2
100 Wells Street, Chicago River	35.4	40.5	44.3	36.6	36.0	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	47.6	51.8	54.8	49.1	45.8	50.4	51.3	47.2	37.1	39.7	50.1
108 Loomis Street, South Branch Chicago River	49.8	55.2	53.2	49.3	43.3	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	56.0	52.8	55.1	51.6	51.8	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	49.5	53.0	53.1	ND	ND	51.9	51.1	50.5	45.0	47.5	46.1
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	49.6	43.9	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	50.1	55.4	52.5	54.3	46.8	51.6	50.0	45.5	39.0	47.1	60.9
41 Harlem Avenue, Chicago Sanitary & Ship Canal	70.7	76.4	72.9	69.5	63.6	72.3	75.6	75.7	64.5	74.0	71.6
42 Route 83, Chicago Sanitary & Ship Canal	74.2	80.8	82.5	78.5	67.1	70.8	72.2	69.6	68.8	70.6	73.9
48 Stephen Street, Chicago Sanitary & Ship Canal	85.6	91.7	94.6	88.1	88.9	92.3	91.5	80.7	84.9	89.4	95.7
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100.9
92 Lockport Forebay, Chicago Sanitary & Ship Canal	88.1	89.8	96.7	88.7	91.1	96.2	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	27.0	28.3	29.2	28.4	28.3	29.8	29.8	25.1	23.9	27.5	50.8
50 Burnham Avenue, Wolf Lake	41.0	43.5	35.2	36.6	38.9	38.6	35.3	32.2	33.0	31.5	63.2
55 130th Street, Calumet River	55.2	57.2	54.2	54.7	63.3	49.8	50.6	43.4	52.2	46.1	72.4
86 Burnham Avenue, Grand Calumet River	176.9	204.9	260.1	219.9	184.3	177.2	157.5	195.7	173.8	229.5	247.4
56 Indiana Avenue, Little Calumet River	64.1	70.4	74.3	78.9	73.4	77.8	72.4	88.2	83.9	76.4	103.6
76 Halsted Street, Little Calumet River	91.3	91.6	100.7	91.2	113.3	143.1	125.0	119.0	112.8	154.5	163.2
52 Wentworth Avenue, Little Calumet River	116.2	143.9	180.2	146.0	122.5	145.1	131.2	122.0	128.8	143.7	144.9
54 Joe Orr Road, Thorn Creek	494.6	620.8	460.4	724.5	521.3	342.4	380.1	355.8	391.1	312.9	205.8
97 170th Street, Thorn Creek	465.3	403.1	498.3	445.9	255.8	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	289.4	235.0	293.1	241.9	161.0	190.1	229.8	158.0	179.7	216.8	174.1
58 Ashland Avenue, Calumet Sag Channel	118.2	116.5	142.4	146.2	110.3	163.6	133.2	133.6	94.2	139.6	147.1
59 Cicero Avenue, Calumet Sag Channel	120.4	128.6	136.4	118.2	124.3	151.8	133.9	139.3	130.7	143.1	156.8
43 Route 83, Calumet Sag Channel	130.0	122.7	128.4	109.3	116.6	144.1	132.4	135.7	126.7	134.4	127.0
Des Plaines River System											
90 Route 19, Poplar Creek	54.6	66.7	46.9	62.8	63.0	60.4	58.0	71.2	54.6	58.9	85.6
63 Longmeadow Lane, West Branch DuPage River	ND	ND	60.2	ND	83.5	71.7	87.1	79.9	76.9	60.2	90.7
89 Walnut Lane, West Branch DuPage River	68.1	77.2	68.1	65.4	73.5	69.3	68.7	67.9	61.0	61.0	79.2
64 Lake Street, West Branch DuPage River	71.4	78.0	68.1	68.0	77.8	68.5	70.5	71.3	64.7	65.8	122.5
79 Higgins Road, Salt Creek	79.4	93.3	72.8	76.0	89.5	79.5	74.9	78.4	67.0	73.8	91.6
80 Arlington Heights Road, Salt Creek	82.9	84.9	77.7	79.3	84.4	73.9	83.6	81.3	72.7	79.2	88.5
18 Devon Avenue, Salt Creek	83.2	84.6	76.4	79.5	82.4	74.0	74.5	76.3	77.0	68.9	97.4
24 Wolf Road, Salt Creek	92.2	96.7	84.1	95.0	98.7	89.4	94.5	108.9	87.4	100.9	107.1
109 Brookfield Avenue, Salt Creek	88.4	97.9	82.4	84.5	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	95.8	94.2	86.2	90.1	104.4	87.2	81.2	112.5
77 Elmhurst Road, Higgins Creek	46.7	66.3	44.8	47.8	60.9	47.0	55.4	66.4	48.9	81.9	84.8
78 Wille Road, Higgins Creek	103.6	100.2	90.4	97.1	107.8	94.5	99.3	96.5	88.7	96.3	103.0
12 Lake-Cook Road, Buffalo Creek	108.4	105.8	92.9	95.7	98.4	106.5	103.8	92.9	83.9	87.5	117.3
13 Lake-Cook Road, Des Plaines River	84.7	88.9	91.6	84.9	76.8	81.0	71.1	87.9	80.6	89.1	119.2
17 Oakton Steet, Des Plaines River	112.2	89.9	88.4	86.3	85.8	75.5	73.4	83.4	75.3	88.2	114.0
19 Belmont Avenue, Des Plaines River	88.0	91.2	85.4	85.6	79.5	78.1	78.3	86.3	76.1	88.2	120.5
20 Roosevelt Road, Des Plaines River	100.1	90.6	85.7	87.4	80.5	78.5	75.6	84.3	75.4	91.0	105.4
22 Ogdan Avenue, Des Plaines River	85.1	87.9	89.1	87.5	98.9	79.2	77.7	87.7	78.2	84.2	112.5
23 Willow Springs Road, Des Plaines River	89.3	92.8	92.2	90.0	83.8	85.5	82.2	90.6	81.6	97.2	105.3
29 Stephen Street, Des Plaines River	90.5	91.4	95.6	90.6	82.9	83.4	79.6	90.0	87.2	95.1	106.6
91 Material Service Road, Des Plaines River	105.3	94.3	97.5	95.8	81.2	89.1	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	80.5	98.7	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-69: FATS, OILS, AND GREASES MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.50	7.44
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	11.63	5.49	3.13	5.50
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	4.37	5.74	1.88	8.33
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	3.63	6.06	2.42	8.20
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.00	ND	ND	ND	ND	ND	ND	ND	6.01	2.00	5.38
102 Oakton Street, North Shore Channel	0.73	2.48	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	2.14	2.37	4.47	5.54	4.79	ND	ND	3.97	6.50	1.92	9.33
101 Foster Avenue, North Shore Channel	2.02	1.94	2.73	4.84	3.96	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	2.45	1.85	3.38	5.45	4.56	ND	ND	4.27	8.40	5.08	6.67
73 Diversey Parkway, North Branch Chicago River	0.86	2.33	3.38	3.85	8.94	ND	ND	2.45	7.27	3.08	6.00
46 Grand Avenue, North Branch Chicago River	1.85	2.97	2.59	4.72	3.88	ND	ND	2.75	9.51	4.25	13.14
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	2.00	2.91	2.91	8.30
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.68	1.93	3.56	5.70	4.16	ND	ND	4.85	3.65	2.17	7.36
108 Loomis Street, South Branch Chicago River	0.80	1.64	2.87	4.68	4.79	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.55	2.77	2.96	4.41	4.03	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.73	3.03	3.16	ND	ND	ND	ND	5.25	3.87	2.67	8.67
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	4.37	3.89	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.24	1.59	2.89	5.57	4.09	ND	ND	2.55	7.41	3.42	9.92
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.65	2.03	2.73	5.16	4.09	ND	ND	2.65	6.26	1.92	7.67
42 Route 83, Chicago Sanitary & Ship Canal	0.93	2.64	2.06	5.31	5.79	ND	ND	3.00	6.58	3.83	7.42
48 Stephen Street, Chicago Sanitary & Ship Canal	1.18	4.29	2.74	4.10	3.37	ND	ND	1.85	8.13	2.00	11.17
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.52	1.95	3.85	4.76	3.92	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	3.00	4.70	3.56	4.91
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	4.63	7.42	2.25	5.82
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	2.33	5.42	3.80	5.18
86 Burnham Avenue, Grand Calumet River	1.77	1.46	6.40	5.76	3.17	ND	ND	3.20	11.05	8.91	7.00
56 Indiana Avenue, Little Calumet River	0.00	1.41	3.66	4.87	3.39	ND	ND	3.97	4.98	3.78	6.90
76 Halsted Street, Little Calumet River	0.43	1.28	2.91	4.39	4.54	ND	ND	3.80	7.47	1.50	5.91
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	3.60	6.83	1.67	5.00
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	12.80	8.18	2.73	7.91
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	3.00	5.43	4.11	6.82
58 Ashland Avenue, Calumet Sag Channel	0.58	1.98	3.36	5.33	4.20	ND	ND	ND	7.50	2.91	6.00
59 Cicero Avenue, Calumet Sag Channel	0.78	1.78	2.58	4.45	3.92	ND	ND	5.07	4.83	5.73	5.36
43 Route 83, Calumet Sag Channel	0.79	2.29	3.41	4.38	4.33	ND	ND	5.53	4.58	5.00	6.60
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	2.55	7.27	7.91	4.70
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	3.50	8.50	4.55	7.00
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	5.35	4.60	6.58	6.33
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	5.30	7.49	7.55	5.92
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	2.50	7.07	6.10	5.50
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	14.20	6.21	8.42	5.18
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	9.20	7.16	9.18	7.09
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	5.55	5.30	5.58	6.08
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	5.45	6.70	5.92	7.18
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	3.35	4.25	10.58	11.42
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	4.05	4.67	9.83	7.08
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	3.05	8.94	7.92	7.08
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	4.15	6.26	7.25	7.73
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	3.70	6.23	6.67	5.10
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	5.45	4.75	6.50	5.58
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	6.40	4.65	5.58	6.58
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	5.45	5.20	6.54	6.58
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	4.80	6.09	5.18	6.18
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	3.00	4.56	6.67	5.92
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-70: TOTAL PHOSPHORUS MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.545	2.200	ND	ND	ND	2.365	2.019
106 Dundee Road, West Fork North Branch Chicago River	1.508	2.120	1.620	0.963	1.102	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.834	0.550	0.614	0.752	0.663	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.210	0.145	0.112	0.155	0.143	0.185	0.245	0.183	0.198	0.186	0.174
104 Glenview Road, North Branch Chicago River	1.413	1.014	1.033	1.256	0.844	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.863	0.237	0.331	0.187	0.150	0.224	0.196	0.152	0.219	0.191	0.206
105 Frontage Road, Skokie River	1.538	1.223	1.708	1.477	0.932	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1.199	0.925	1.269	1.153	0.624	1.147	1.208	0.777	1.237	1.093	0.889
96 Albany Avenue, North Branch Chicago River	1.155	0.795	1.002	1.037	0.718	1.312	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.016	0.088	0.213	0.101	0.058	0.183	0.215	0.129	0.067	0.392	0.140
102 Oakton Street, North Shore Channel	0.444	0.489	0.548	0.655	0.221	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.241	1.170	1.377	1.057	1.259	1.214	1.351	1.185	1.189	1.132	0.838
101 Foster Avenue, North Shore Channel	1.248	1.328	1.287	1.148	1.406	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.130	1.227	1.143	1.043	1.198	1.301	1.388	1.086	1.033	1.039	0.839
73 Diversey Parkway, North Branch Chicago River	0.870	1.065	1.055	0.905	0.889	1.102	1.116	0.843	0.943	0.814	0.623
46 Grand Avenue, North Branch Chicago River	1.121	0.923	0.982	0.953	0.800	1.130	1.120	0.863	0.870	0.938	0.761
74 Lake Shore Drive, Chicago River	0.158	0.228	0.226	0.191	0.291	0.373	0.206	0.202	0.099	0.120	0.100
100 Wells Street, Chicago River	0.355	0.443	0.639	0.429	0.387	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.830	0.908	1.089	0.756	0.611	1.130	0.839	0.605	0.465	0.393	0.380
108 Loomis Street, South Branch Chicago River	0.722	0.860	0.775	0.732	0.573	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.767	0.804	0.857	0.719	0.610	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.755	0.843	0.884	ND	ND	1.046	0.727	0.528	0.570	0.406	0.375
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.738	0.609	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.746	0.803	0.867	0.723	0.671	0.965	0.690	0.550	0.573	0.458	0.443
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.988	0.953	1.100	0.984	0.990	1.120	1.044	0.853	0.888	0.757	0.731
42 Route 83, Chicago Sanitary & Ship Canal	0.725	0.978	0.836	0.918	0.760	0.755	0.643	0.661	0.678	0.548	0.552
48 Stephen Street, Chicago Sanitary & Ship Canal	1.168	1.103	1.083	1.180	1.096	1.355	1.180	0.859	1.063	0.873	0.828
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	1.485	1.545	1.211	1.236	1.165	1.088
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.166	1.014	1.138	1.197	1.032	1.414	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.025	0.060	0.032	0.060	0.081	0.131	0.145	0.081	0.088	0.155	0.143
50 Burnham Avenue, Wolf Lake	0.023	0.053	0.029	0.035	0.070	0.075	0.234	0.056	0.095	0.094	0.074
55 130th Street, Calumet River	0.025	0.049	0.035	0.039	0.127	0.088	0.197	0.151	0.094	0.092	0.074
86 Burnham Avenue, Grand Calumet River	0.878	0.584	0.607	0.613	0.666	0.537	0.857	0.704	0.465	1.038	0.513
56 Indiana Avenue, Little Calumet River	0.372	0.538	0.504	0.495	0.554	0.373	0.324	0.214	0.152	0.143	0.156
76 Halsted Street, Little Calumet River	2.083	1.638	2.126	2.038	1.386	3.193	2.595	1.885	1.758	1.243	1.623
52 Westworth Avenue, Little Calumet River	0.609	0.543	0.561	0.595	0.495	0.752	1.168	0.815	0.553	0.528	0.478
54 Joe Orr Road, Thorn Creek	2.113	2.054	1.650	5.909	5.645	5.208	3.000	8.043	8.065	6.090	5.159
97 170th Street, Thorn Creek	1.574	1.502	2.101	2.607	2.296	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.061	0.812	1.223	1.481	1.537	2.170	1.522	1.619	1.992	1.736	1.409
58 Ashland Avenue, Calumet Sag Channel	2.077	1.562	1.898	2.070	1.442	3.038	2.190	1.948	1.445	1.470	1.587
59 Cicero Avenue, Calumet Sag Channel	2.214	1.646	2.048	2.129	1.511	3.119	2.396	2.118	1.930	1.623	1.771
43 Route 83, Calumet Sag Channel	2.266	1.483	1.686	1.814	1.619	2.642	2.453	1.832	2.012	1.631	1.521
Des Plaines River System											
90 Route 19, Poplar Creek	0.087	0.075	0.108	0.066	0.060	0.181	0.430	0.101	0.424	0.165	0.142
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.140	ND	0.225	0.184	0.952	0.770	0.547	0.535	0.555
89 Walnut Lane, West Branch DuPage River	2.670	2.745	2.440	2.603	2.428	2.109	2.742	2.903	2.453	2.163	2.271
64 Lake Street, West Branch DuPage River	2.432	2.400	2.338	2.245	2.030	1.649	2.205	2.385	2.007	1.811	1.979
79 Higgins Road, Salt Creek	0.108	0.097	0.106	0.109	0.106	0.249	0.128	0.176	0.169	0.148	0.139
80 Arlington Heights Road, Salt Creek	2.022	1.850	1.980	1.992	1.687	1.688	2.224	1.974	1.575	1.583	1.994
18 Devon Avenue, Salt Creek	1.981	1.899	2.007	1.955	1.810	1.710	2.231	1.855	1.410	1.752	2.052
24 Wolf Road, Salt Creek	1.896	1.595	1.584	1.773	1.227	1.407	1.745	1.497	1.441	1.513	1.502
109 Brookfield Avenue, Salt Creek	1.603	1.317	1.328	1.943	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	1.043	1.073	1.239	1.595	1.517	1.469	1.198	1.255
77 Elmhurst Road, Higgins Creek	0.098	0.108	0.290	0.117	0.112	0.184	0.221	0.111	0.115	0.152	0.181
78 Wille Road, Higgins Creek	1.577	0.662	0.478	0.864	0.508	0.578	0.671	1.058	0.988	0.525	0.592
12 Lake-Cook Road, Buffalo Creek	0.131	0.080	0.158	0.120	0.075	0.222	0.235	0.150	0.156	0.158	0.125
13 Lake-Cook Road, Des Plaines River	1.498	0.985	1.333	1.268	0.826	0.984	1.261	0.916	0.736	0.700	0.701
17 Oakton Steet, Des Plaines River	1.256	0.889	0.958	1.033	0.691	0.705	0.971	0.764	0.615	0.644	0.671
19 Belmont Avenue, Des Plaines River	1.107	0.688	0.852	0.883	0.590	0.914	0.780	0.684	0.630	0.525	0.578
20 Roosevelt Road, Des Plaines River	1.069	0.631	0.891	0.875	0.546	0.583	0.701	0.660	0.667	0.598	0.553
22 Ogden Avenue, Des Plaines River	1.224	0.811	1.272	1.095	0.658	0.732	0.963	0.849	0.885	0.702	0.738
23 Willow Springs Road, Des Plaines River	1.173	0.796	0.919	1.060	0.618	0.762	0.887	0.797	0.816	0.718	0.688
29 Stephen Street, Des Plaines River	1.201	0.834	1.077	0.998	0.672	0.742	0.940	0.788	0.862	0.763	0.828
91 Material Service Road, Des Plaines River	1.263	0.778	1.104	0.969	0.679	0.914	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.325	0.205	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-71: SOLUBLE PHOSPHORUS MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.340	1.610	ND	ND	ND	2.010	1.847
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	0.910	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	0.448	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	0.028	0.082	0.109	0.116	0.127	0.163	0.100
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	0.530	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	0.026	0.111	0.108	0.095	0.158	0.118	0.104
105 Frontage Road, Skokie River	ND	ND	ND	ND	0.633	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	0.418	0.889	0.920	0.705	0.994	0.857	0.795
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	0.525	1.103	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	0.053	0.044	0.098	0.103	0.038	0.271	0.058
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	0.928	0.989	1.066	1.058	0.955	0.872	0.687
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	1.168	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	0.830	0.904	1.160	0.977	0.888	0.801	0.738
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	0.707	0.814	0.917	0.743	0.761	0.606	0.559
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	0.682	0.865	0.853	0.873	0.707	0.658	0.692
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	0.390	0.270	0.157	0.150	0.057	0.089	0.065
100 Wells Street, Chicago River	ND	ND	ND	ND	0.500	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	0.594	0.730	0.646	0.501	0.345	0.273	0.270
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	0.555	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	0.490	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.703	0.492	0.423	0.426	0.289	0.278
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.537	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.646	0.672	0.459	0.378	0.402	0.320	0.348
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.618	0.834	0.754	0.737	0.636	0.528	0.634
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.646	0.571	0.478	0.502	0.512	0.418	0.451
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.970	1.071	0.798	0.717	0.888	0.647	0.689
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.846	1.156	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	0.046	0.053	0.060	0.041	0.059	0.156	0.090
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	0.032	0.040	0.064	0.041	0.063	0.075	0.047
55 130th Street, Calumet River	ND	ND	ND	ND	0.013	0.045	0.080	0.062	0.058	0.093	0.062
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	0.155	0.121	0.191	0.329	0.222	0.258	0.127
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	0.090	0.277	0.110	0.161	0.076	0.110	0.061
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	1.372	2.923	2.684	1.533	1.276	1.033	1.457
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	0.240	0.384	0.398	0.296	0.313	0.312	0.269
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	5.608	4.875	2.556	7.365	6.853	5.017	4.926
97 170th Street, Thorn Creek	ND	ND	ND	ND	1.620	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	0.915	1.882	1.229	1.275	1.697	1.467	1.231
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	1.300	2.720	2.077	1.736	1.045	0.906	1.391
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	1.312	2.794	2.314	1.888	1.586	1.124	1.511
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	1.046	2.306	2.348	1.834	1.738	1.186	1.315
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	0.020	0.064	0.070	0.074	0.330	0.117	0.070
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	0.137	0.060	0.729	0.684	0.608	0.401	0.360
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	1.970	1.910	2.243	2.198	2.120	1.728	2.031
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	1.772	1.383	1.712	2.048	1.772	1.461	1.708
79 Higgins Road, Salt Creek	ND	ND	ND	ND	0.000	0.039	0.074	0.109	0.068	0.086	0.056
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	1.265	1.488	1.843	1.751	1.227	1.294	1.743
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	1.287	1.447	1.868	1.686	1.098	1.440	1.778
24 Wolf Road, Salt Creek	ND	ND	ND	ND	0.987	1.094	1.369	1.240	1.150	1.058	1.241
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.937	0.945	1.275	1.300	1.187	0.848	1.066
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	0.026	0.044	0.071	0.073	0.104	0.078	0.068
78 Wille Road, Higgins Creek	ND	ND	ND	ND	0.265	0.385	0.506	0.823	0.713	0.363	0.480
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	0.030	0.037	0.081	0.062	0.075	0.083	0.066
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	0.412	0.716	1.047	0.736	0.575	0.552	0.603
17 Oakton Steet, Des Plaines River	ND	ND	ND	ND	0.352	0.480	0.741	0.563	0.440	0.458	0.505
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	0.315	0.420	0.609	0.503	0.448	0.387	0.420
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	0.313	0.416	0.562	0.523	0.462	0.387	0.407
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	0.443	0.557	0.769	0.688	0.634	0.459	0.596
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	0.443	0.544	0.679	0.629	0.621	0.459	0.511
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	0.488	0.575	0.664	0.588	0.641	0.484	0.644
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	0.380	0.711	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-72: TOTAL CYANIDE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.006	0.009	ND	ND	ND	ND	0.007	0.008
106 Dundee Road, West Fork North Branch Chicago River	0.005	0.005	0.002	0.003	0.005	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.003	0.002	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.002	0.001	0.002	0.001	0.002	0.002	0.002	0.002	0.006	0.006	0.002
104 Glenview Road, North Branch Chicago River	0.002	0.003	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.001	0.002	0.001	0.001	0.002
105 Frontage Road, Skokie River	0.002	0.002	0.002	0.002	0.004	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.002	0.003	0.003	0.008	0.004	0.006	0.005	0.004	0.005	0.004	0.004	0.003
96 Albany Avenue, North Branch Chicago River	0.002	0.003	0.002	0.002	0.004	0.005	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.001	0.001	0.000	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.001
102 Oakton Street, North Shore Channel	0.002	0.002	0.002	0.004	0.002	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.002	0.004	0.003	0.004	0.006	0.006	0.005	0.006	0.007	0.006	0.006	0.004
101 Foster Avenue, North Shore Channel	0.003	0.003	0.003	0.004	0.005	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.003	0.003	0.003	0.004	0.005	0.006	0.007	0.006	0.005	0.005	0.005	0.005
73 Diversey Parkway, North Branch Chicago River	0.003	0.003	0.003	0.003	0.006	0.012	0.008	0.005	0.008	0.005	0.005	0.004
46 Grand Avenue, North Branch Chicago River	0.003	0.004	0.003	0.004	0.005	0.006	0.007	0.007	0.005	0.005	0.005	0.004
74 Lake Shore Drive, Chicago River	0.001	0.001	0.000	0.001	0.002	0.003	0.001	0.002	0.000	0.001	0.001	0.000
100 Wells Street, Chicago River	0.000	0.002	0.002	0.002	0.002	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.002	0.003	0.004	0.004	0.004	0.005	0.005	0.004	0.003	0.002	0.002	0.002
108 Loomis Street, South Branch Chicago River	0.002	0.003	0.003	0.003	0.003	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.002	0.002	0.003	0.003	0.005	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.002	0.003	0.003	ND	ND	0.005	0.005	0.004	0.004	0.004	0.004	0.003
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.003	0.004	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.004	0.003	0.004	0.004	0.003
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.003	0.003	0.005	0.006	0.007	0.006	0.007	0.006	0.007	0.007	0.005
42 Route 83, Chicago Sanitary & Ship Canal	0.004	0.003	0.004	0.005	0.006	0.007	0.007	0.007	0.007	0.006	0.006	0.007
48 Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.004	0.003	0.006	0.007	0.007	0.007	0.009	0.007	0.008	0.008	0.008
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.003	0.004	0.003	0.005	0.006	0.007	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.001	0.002	0.001	0.001	0.001	0.003	0.001	0.002	0.002
50 Burnham Avenue, Wolf Lake	0.000	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003
55 130th Street, Calumet River	0.000	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.001
86 Burnham Avenue, Grand Calumet River	0.005	0.005	0.005	0.006	0.010	0.009	0.008	0.011	0.010	0.009	0.009	0.013
56 Indiana Avenue, Little Calumet River	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002
76 Halsted Street, Little Calumet River	0.003	0.003	0.003	0.005	0.007	0.010	0.010	0.008	0.006	0.013	0.013	0.013
52 Wentworth Avenue, Little Calumet River	0.006	0.016	0.005	0.006	0.009	0.061	0.040	0.027	0.005	0.015	0.014	0.014
54 Joe Orr Road, Thorn Creek	0.003	0.004	0.003	0.006	0.005	0.008	0.007	0.008	0.007	0.008	0.007	0.007
97 170th Street, Thorn Creek	0.002	0.002	0.002	0.004	0.004	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.003	0.005	0.004	0.005	0.005	0.008	0.009	0.008	0.005	0.007	0.009	0.009
58 Ashland Avenue, Calumet Sag Channel	0.003	0.004	0.003	0.005	0.007	0.009	0.009	0.008	0.006	0.010	0.012	0.012
59 Cicero Avenue, Calumet Sag Channel	0.003	0.003	0.003	0.005	0.006	0.008	0.008	0.009	0.006	0.009	0.013	0.013
43 Route 83, Calumet Sag Channel	0.002	0.003	0.002	0.004	0.006	0.007	0.007	0.009	0.006	0.008	0.010	0.010
Des Plaines River System												
90 Route 19, Poplar Creek	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.003
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.002	ND	0.004	0.002	0.007	0.005	0.004	0.005	0.006	0.006
89 Walnut Lane, West Branch DuPage River	0.004	0.006	0.005	0.007	0.010	0.008	0.012	0.011	0.010	0.008	0.011	0.011
64 Lake Street, West Branch DuPage River	0.004	0.004	0.004	0.005	0.008	0.007	0.009	0.009	0.008	0.008	0.010	0.010
79 Higgins Road, Salt Creek	0.001	0.002	0.002	0.002	0.003	0.002	0.004	0.002	0.002	0.003	0.004	0.004
80 Arlington Heights Road, Salt Creek	0.003	0.004	0.003	0.005	0.008	0.007	0.010	0.009	0.006	0.007	0.007	0.007
18 Devon Avenue, Salt Creek	0.003	0.004	0.003	0.005	0.008	0.006	0.009	0.008	0.006	0.007	0.007	0.007
24 Wolf Road, Salt Creek	0.002	0.003	0.003	0.004	0.006	0.004	0.007	0.006	0.006	0.006	0.006	0.006
109 Brookfield Avenue, Salt Creek	0.002	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.006	0.005	0.004	0.006	0.006	0.006	0.005	0.006	0.006
77 Elmhurst Road, Higgins Creek	0.003	0.004	0.003	0.004	0.003	0.004	0.003	0.003	0.003	0.004	0.003	0.003
78 Wille Road, Higgins Creek	0.003	0.004	0.004	0.005	0.007	0.006	0.011	0.008	0.008	0.006	0.008	0.008
12 Lake-Cook Road, Buffalo Creek	0.002	0.001	0.001	0.001	0.003	0.002	0.003	0.002	0.001	0.002	0.002	0.002
13 Lake-Cook Road, Des Plaines River	0.002	0.001	0.002	0.003	0.006	0.005	0.010	0.005	0.005	0.005	0.006	0.006
17 Oakton Steet, Des Plaines River	0.005	0.002	0.002	0.003	0.005	0.004	0.009	0.005	0.004	0.005	0.006	0.006
19 Belmont Avenue, Des Plaines River	0.009	0.002	0.003	0.003	0.005	0.004	0.005	0.004	0.005	0.005	0.005	0.006
20 Roosevelt Road, Des Plaines River	0.009	0.002	0.002	0.004	0.005	0.004	0.005	0.004	0.005	0.004	0.005	0.005
22 Ogden Avenue, Des Plaines River	0.003	0.002	0.003	0.003	0.005	0.003	0.006	0.005	0.005	0.004	0.005	0.005
23 Willow Springs Road, Des Plaines River	0.002	0.002	0.002	0.003	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005
29 Stephen Street, Des Plaines River	0.002	0.002	0.002	0.004	0.004	0.004	0.005	0.006	0.005	0.005	0.006	0.006
91 Material Service Road, Des Plaines River	0.001	0.002	0.002	0.004	0.004	0.005	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-73: WEAK ACID DISSOCIABLE CYANIDE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.000	0.001	ND	ND	ND	0.001	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
104 Glenview Road, North Branch Chicago River	0.001	0.001	0.001	0.000	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	ND
105 Frontage Road, Skokie River	0.001	0.001	0.001	0.000	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.001	0.000	0.000	0.001	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND
102 Oakton Street, North Shore Channel	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
101 Foster Avenue, North Shore Channel	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	ND
73 Diversey Parkway, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.000	0.002	0.001	ND
46 Grand Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
74 Lake Shore Drive, Chicago River	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND
100 Wells Street, Chicago River	0.001	0.001	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
108 Loomis Street, South Branch Chicago River	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	ND	ND	0.001	0.001	0.001	0.001	0.001	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.001	0.001	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.001	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND
55 130th Street, Calumet River	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
56 Indiana Avenue, Little Calumet River	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	ND
76 Halsted Street, Little Calumet River	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.001	0.001	0.003	ND
52 Wentworth Avenue, Little Calumet River	0.002	0.004	0.001	0.001	0.001	0.009	0.008	0.004	0.001	0.004	ND
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	ND
97 170th Street, Thorn Creek	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.002	0.001	0.001	0.001	0.002	0.003	0.001	0.001	0.002	ND
58 Ashland Avenue, Calumet Sag Channel	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	ND
59 Cicero Avenue, Calumet Sag Channel	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	ND
43 Route 83, Calumet Sag Channel	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.001	ND	0.001	0.001	0.001	0.001	0.001	0.001	ND
89 Walnut Lane, West Branch DuPage River	0.002	0.002	0.002	0.003	0.002	0.001	0.002	0.001	0.002	0.001	ND
64 Lake Street, West Branch DuPage River	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
79 Higgins Road, Salt Creek	0.000	0.001	0.001	0.001	0.001	0.000	0.002	0.000	0.001	0.001	ND
80 Arlington Heights Road, Salt Creek	0.002	0.002	0.001	0.002	0.002	0.001	0.002	0.002	0.001	0.002	ND
18 Devon Avenue, Salt Creek	0.001	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	ND
24 Wolf Road, Salt Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
109 Brookfield Avenue, Salt Creek	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
77 Elmhurst Road, Higgins Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	ND
78 Wille Road, Higgins Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.002	0.001	ND
12 Lake-Cook Road, Buffalo Creek	0.001	0.001	0.001	0.000	0.001	0.000	0.001	0.000	0.000	0.001	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.000	0.004	0.000	0.001	0.001	ND
17 Oakton Steet, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.000	0.006	0.000	0.000	0.001	ND
19 Belmont Avenue, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND
23 Willow Springs Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND
29 Stephen Street, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	ND
91 Material Service Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-74: FLUORIDE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.240	0.710	ND	ND	ND	0.572	0.609
106 Dundee Road, West Fork North Branch Chicago River	0.520	0.553	0.450	0.433	0.408	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.469	0.360	0.394	0.425	0.387	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.375	0.289	0.334	0.343	0.266	0.310	0.312	0.306	0.430	0.337	0.277
104 Glenview Road, North Branch Chicago River	0.584	0.513	0.460	0.617	0.464	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.483	0.291	0.364	0.354	0.247	0.315	0.373	0.286	0.391	0.342	0.331
105 Frontage Road, Skokie River	0.614	0.557	0.686	0.703	0.500	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.539	0.473	0.581	0.605	0.378	0.577	0.604	0.488	0.625	0.525	0.469
96 Albany Avenue, North Branch Chicago River	0.516	0.439	0.528	0.567	0.446	0.642	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.135	0.136	0.233	0.307	0.138	0.187	0.184	0.158	0.200	0.187	0.134
102 Oakton Street, North Shore Channel	0.346	0.318	0.376	0.512	0.238	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.675	0.619	0.721	0.749	0.694	0.812	0.781	0.778	0.705	0.760	0.562
101 Foster Avenue, North Shore Channel	0.685	0.652	0.717	0.745	0.722	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.667	0.617	0.678	0.693	0.623	0.779	0.758	0.748	0.728	0.725	0.604
73 Diversey Parkway, North Branch Chicago River	0.667	0.624	0.688	0.684	0.648	0.765	0.765	0.740	0.634	0.730	0.601
46 Grand Avenue, North Branch Chicago River	0.720	0.601	0.690	0.717	0.665	0.783	0.768	0.697	0.752	0.713	0.621
74 Lake Shore Drive, Chicago River	0.196	0.229	0.250	0.238	0.353	0.358	0.235	0.195	0.260	0.136	0.122
100 Wells Street, Chicago River	0.316	0.322	0.458	0.423	0.363	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.551	0.550	0.665	0.590	0.537	0.645	0.607	0.475	0.372	0.380	0.380
108 Loomis Street, South Branch Chicago River	0.557	0.551	0.596	0.581	0.543	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.565	0.516	0.578	0.565	0.595	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.555	0.525	0.592	ND	ND	0.667	0.537	0.468	0.456	0.427	0.408
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.532	0.538	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.531	0.503	0.578	0.578	0.471	0.617	0.513	0.434	0.437	0.448	0.401
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.740	0.686	0.727	0.743	0.633	0.781	0.743	0.705	0.701	0.667	0.594
42 Route 83, Chicago Sanitary & Ship Canal	0.756	0.768	0.825	0.809	0.715	0.806	0.778	0.742	0.726	0.724	0.635
48 Stephen Street, Chicago Sanitary & Ship Canal	0.701	0.683	0.800	0.809	0.752	0.799	0.729	0.697	0.742	0.682	0.633
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.914	0.865	0.791	0.725	0.744	0.789
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.719	0.634	0.769	0.802	0.751	0.810	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.128	0.115	0.150	0.188	0.144	0.148	0.135	0.216	0.187	0.136	0.125
50 Burnham Avenue, Wolf Lake	0.275	0.228	0.223	0.213	0.208	0.200	0.237	0.198	0.267	0.177	0.213
55 130th Street, Calumet River	0.219	0.220	0.312	0.248	0.247	0.230	0.301	0.243	0.238	0.199	0.207
86 Burnham Avenue, Grand Calumet River	0.722	0.740	0.812	0.873	0.783	0.823	0.711	0.845	0.940	0.927	0.935
56 Indiana Avenue, Little Calumet River	0.317	0.278	0.375	0.394	0.375	0.382	0.317	0.422	0.439	0.314	0.281
76 Halsted Street, Little Calumet River	0.582	0.536	0.665	0.633	0.730	0.891	0.759	0.760	0.790	0.752	0.756
52 Wentworth Avenue, Little Calumet River	3.129	1.764	2.838	12.390	4.096	4.255	1.980	1.061	1.534	1.146	1.507
54 Joe Orr Road, Thorn Creek	0.474	0.626	0.483	0.746	0.674	0.737	0.596	0.594	0.747	0.692	0.639
97 170th Street, Thorn Creek	0.492	0.543	0.634	1.613	0.520	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.182	0.887	1.107	2.865	1.627	1.609	0.722	0.730	0.784	0.628	0.747
58 Ashland Avenue, Calumet Sag Channel	0.646	0.563	1.020	1.188	0.828	0.935	0.631	0.750	0.810	0.799	0.685
59 Cicero Avenue, Calumet Sag Channel	0.637	0.575	0.719	0.935	0.935	0.916	0.647	0.737	0.678	0.715	0.715
43 Route 83, Calumet Sag Channel	0.662	0.590	0.659	0.925	0.805	0.827	0.650	0.652	0.726	0.681	0.596
Des Plaines River System											
90 Route 19, Poplar Creek	0.209	0.198	0.206	0.234	0.257	0.171	0.192	0.191	0.237	0.185	0.190
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.170	ND	0.295	0.303	0.419	0.453	0.235	0.300	0.375
89 Walnut Lane, West Branch DuPage River	0.643	0.568	0.625	0.744	0.721	0.723	0.719	0.844	0.650	0.572	0.718
64 Lake Street, West Branch DuPage River	0.603	0.572	0.601	0.631	0.540	0.587	0.598	1.061	0.538	0.557	0.657
79 Higgins Road, Salt Creek	0.207	0.189	0.191	0.238	0.253	0.294	0.282	0.328	0.203	0.215	0.217
80 Arlington Heights Road, Salt Creek	0.553	0.546	0.547	0.602	0.573	0.643	0.595	0.851	0.617	0.576	0.597
18 Devon Avenue, Salt Creek	0.498	0.549	0.568	0.578	0.558	0.608	0.628	0.744	0.474	0.576	0.572
24 Wolf Road, Salt Creek	0.585	0.565	0.542	0.634	0.523	0.542	0.600	0.586	0.504	0.583	0.591
109 Brookfield Avenue, Salt Creek	0.467	0.511	0.474	0.698	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.447	0.499	0.486	0.607	0.753	0.531	0.551	0.600
77 Elmhurst Road, Higgins Creek	0.190	0.223	0.222	0.208	0.315	0.317	0.207	0.257	0.184	0.185	0.211
78 Wille Road, Higgins Creek	0.879	0.812	0.858	0.788	0.762	0.746	0.745	0.773	0.750	0.635	0.813
12 Lake-Cook Road, Buffalo Creek	0.170	0.153	0.206	0.224	0.252	0.259	0.207	0.346	0.180	0.199	0.189
13 Lake-Cook Road, Des Plaines River	0.438	0.400	0.525	0.508	0.393	0.402	0.458	0.560	0.450	0.466	0.427
17 Oakton Steet, Des Plaines River	0.468	0.382	0.459	0.459	0.367	0.400	0.472	0.497	0.328	0.397	0.380
19 Belmont Avenue, Des Plaines River	0.468	0.435	0.541	0.502	0.425	0.459	0.506	0.563	0.384	0.435	0.465
20 Roosevelt Road, Des Plaines River	0.449	0.417	0.496	0.516	0.464	0.526	0.455	0.546	0.384	0.451	0.455
22 Ogden Avenue, Des Plaines River	0.440	0.429	0.592	0.541	0.408	0.410	0.514	0.524	0.418	0.446	0.483
23 Willow Springs Road, Des Plaines River	0.530	0.431	0.488	0.557	0.420	0.488	0.488	0.485	0.415	0.478	0.483
29 Stephen Street, Des Plaines River	0.510	0.427	0.536	0.516	0.386	0.486	0.514	0.543	0.429	0.461	0.525
91 Material Service Road, Des Plaines River	0.540	0.419	0.545	0.518	0.377	0.490	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.251	0.302	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-75: TOTAL ORGANIC CARBON MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	7.50	7.00	ND	ND	ND	10.75	8.56
106 Dundee Road, West Fork North Branch Chicago River	6.43	8.88	10.67	9.50	12.60	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	6.88	8.40	8.88	9.36	8.40	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	9.02	10.10	11.00	11.40	9.73	12.40	13.36	11.67	11.40	15.25	10.70
104 Glenview Road, North Branch Chicago River	5.98	8.33	9.00	8.00	8.10	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	7.62	9.30	9.89	10.60	9.36	12.30	11.27	13.83	12.80	13.75	10.89
105 Frontage Road, Skokie River	5.64	7.17	7.75	8.92	7.60	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	6.97	9.67	8.82	8.50	7.83	10.73	9.82	11.58	12.82	12.83	8.90
96 Albany Avenue, North Branch Chicago River	6.70	8.18	9.30	8.92	8.33	8.33	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	2.49	4.22	4.89	5.33	3.33	5.67	6.30	7.00	7.70	9.11	5.00
102 Oakton Street, North Shore Channel	4.42	5.92	7.44	7.27	4.20	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	6.41	8.08	8.92	8.83	8.00	10.58	9.92	9.08	14.00	11.92	8.17
101 Foster Avenue, North Shore Channel	6.48	8.25	8.42	8.67	7.60	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	6.68	8.08	8.67	9.17	7.75	10.17	9.08	9.25	11.92	13.00	8.25
73 Diversey Parkway, North Branch Chicago River	6.26	7.83	8.92	9.25	7.92	10.33	9.25	9.17	13.25	12.08	8.42
46 Grand Avenue, North Branch Chicago River	6.49	7.92	8.92	8.50	7.83	9.92	8.83	9.00	10.36	12.17	9.00
74 Lake Shore Drive, Chicago River	2.54	4.22	4.30	4.42	4.58	6.58	4.91	5.17	7.91	6.27	4.70
100 Wells Street, Chicago River	3.55	5.17	6.25	5.33	4.71	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	5.03	7.00	7.91	7.75	6.67	9.08	8.00	7.33	7.82	9.92	6.00
108 Loomis Street, South Branch Chicago River	5.52	6.83	8.00	7.00	6.22	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	5.44	7.08	7.83	8.17	8.50	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	5.52	6.67	7.67	ND	ND	12.78	8.00	7.83	10.67	10.50	7.00
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	7.58	6.90	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	5.08	7.00	7.33	7.50	6.58	8.58	7.25	10.33	9.45	10.67	7.00
41 Harlem Avenue, Chicago Sanitary & Ship Canal	5.92	7.50	8.25	7.92	7.25	9.75	8.45	13.67	11.18	12.17	7.67
42 Route 83, Chicago Sanitary & Ship Canal	6.05	8.17	8.00	8.83	7.67	12.55	8.83	11.83	15.00	12.33	7.83
48 Stephen Street, Chicago Sanitary & Ship Canal	6.32	7.75	7.92	8.67	7.92	10.09	9.36	12.08	11.82	12.25	9.00
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6.01	8.00	8.29	8.26	7.59	9.62	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	1.77	3.40	3.17	3.75	3.25	6.67	4.00	4.39	7.32	6.67	4.91
50 Burnham Avenue, Wolf Lake	5.37	6.42	6.17	5.50	5.18	6.92	6.42	6.67	8.25	8.67	7.33
55 130th Street, Calumet River	3.39	4.55	4.70	4.92	4.73	6.27	5.61	5.61	7.43	6.87	5.45
86 Burnham Avenue, Grand Calumet River	9.27	12.33	12.90	11.36	9.90	14.18	12.18	11.17	18.25	19.45	14.31
56 Indiana Avenue, Little Calumet River	3.77	5.11	5.64	6.42	5.75	7.67	6.68	6.73	11.24	9.27	6.91
76 Halsted Street, Little Calumet River	5.90	7.67	8.45	8.33	7.50	10.92	9.26	9.13	13.52	13.75	9.42
52 Wentworth Avenue, Little Calumet River	8.54	12.22	11.60	10.73	10.18	12.82	11.64	11.75	18.25	15.44	11.10
54 Joe Orr Road, Thorn Creek	8.00	10.43	9.67	10.43	9.08	12.75	10.25	11.17	13.50	16.17	12.00
97 170th Street, Thorn Creek	6.72	9.27	9.60	9.17	9.10	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	7.46	9.60	9.60	9.00	9.10	12.73	11.09	10.08	13.42	14.44	10.55
58 Ashland Avenue, Calumet Sag Channel	6.04	8.00	8.50	8.75	8.25	11.58	9.42	8.67	14.47	11.94	9.64
59 Cicero Avenue, Calumet Sag Channel	6.41	8.17	8.64	8.67	8.17	11.50	9.74	10.00	13.38	12.75	11.08
43 Route 83, Calumet Sag Channel	6.54	8.00	8.55	8.25	8.25	17.25	9.37	9.65	12.29	11.88	11.08
Des Plaines River System											
90 Route 19, Poplar Creek	7.28	8.64	9.90	9.22	8.82	12.29	8.70	9.90	10.88	13.73	11.40
63 Longmeadow Lane, West Branch DuPage River	ND	ND	12.00	ND	12.75	13.78	12.67	14.43	14.40	15.18	12.00
89 Walnut Lane, West Branch DuPage River	9.55	12.45	11.91	11.75	11.17	12.75	11.45	14.09	12.36	14.17	11.00
64 Lake Street, West Branch DuPage River	8.65	10.09	10.83	10.25	10.64	12.64	10.73	12.00	12.73	13.36	10.75
79 Higgins Road, Salt Creek	8.42	9.45	9.56	10.00	9.20	11.40	10.50	11.22	12.10	15.60	10.80
80 Arlington Heights Road, Salt Creek	7.13	9.42	9.92	10.50	9.83	10.67	9.82	11.00	12.27	13.58	10.50
18 Devon Avenue, Salt Creek	6.86	9.58	10.08	9.80	9.42	10.58	9.91	10.82	12.55	14.09	10.08
24 Wolf Road, Salt Creek	6.73	8.27	8.67	8.45	8.33	10.80	8.64	10.50	10.09	13.33	9.75
109 Brookfield Avenue, Salt Creek	7.30	10.82	8.70	8.83	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	9.67	8.50	10.10	8.27	10.00	9.90	12.67	9.42
77 Elmhurst Road, Higgins Creek	7.75	11.00	10.40	9.83	10.09	11.80	10.82	11.00	11.00	14.50	10.50
78 Wille Road, Higgins Creek	7.94	10.55	10.25	9.83	9.92	12.08	10.18	12.00	12.82	13.00	11.25
12 Lake-Cook Road, Buffalo Creek	9.61	10.29	11.50	12.29	9.55	11.90	10.00	12.30	12.20	15.17	11.92
13 Lake-Cook Road, Des Plaines River	7.48	9.27	9.67	9.25	8.67	11.17	9.73	11.00	12.80	13.33	11.67
17 Oakton Steet, Des Plaines River	7.38	8.73	9.40	9.55	8.83	11.40	9.82	10.82	12.80	13.50	11.00
19 Belmont Avenue, Des Plaines River	7.53	9.27	9.50	9.67	8.92	11.10	9.55	11.18	11.73	14.00	10.75
20 Roosevelt Road, Des Plaines River	7.28	9.36	9.00	9.33	8.75	11.20	9.91	11.36	11.91	14.17	11.08
22 Ogden Avenue, Des Plaines River	7.00	9.27	9.20	9.25	8.50	10.80	9.73	10.82	12.36	14.23	10.50
23 Willow Springs Road, Des Plaines River	7.11	8.82	9.10	9.00	9.67	10.40	9.27	10.55	12.10	11.91	9.91
29 Stephen Street, Des Plaines River	7.08	8.45	9.36	9.00	9.25	9.60	9.09	11.36	13.45	13.58	10.55
91 Material Service Road, Des Plaines River	7.19	8.45	8.92	8.83	8.63	11.46	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	13.02	15.70	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-76: FECAL COLIFORM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (fcu/100mL)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	2683	4000	ND	ND	ND	2228	2476
106 Dundee Road, West Fork North Branch Chicago River	1130	2494	3740	1344	1782	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	727	622	839	704	854	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	536	760	773	1143	767	1050	1697	1210	2139	1556	1815
104 Glenview Road, North Branch Chicago River	649	1326	777	904	1112	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	649	1042	546	718	1750	1131	1919	1718	2903	2578	6993
105 Frontage Road, Skokie River	160	159	225	357	490	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1121	996	1333	924	1377	1484	1498	878	769	1851	1507
96 Albany Avenue, North Branch Chicago River	1119	1029	1498	1508	2517	4238	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	144	330	291	483	356	270	130	241	88	366	642
102 Oakton Street, North Shore Channel	866	963	1487	1954	580	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	11481	5518	7588	8349	4211	9424	7866	6963	10671	12203	11261
101 Foster Avenue, North Shore Channel	10290	6872	7917	10250	8703	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	9748	5896	5940	7358	5958	7677	7686	7000	7034	7007	10755
73 Diversey Parkway, North Branch Chicago River	5799	3426	4228	5833	3832	5539	4607	3796	4454	4773	5378
46 Grand Avenue, North Branch Chicago River	1853	1583	2402	1919	1840	1715	1522	1636	3288	1711	2413
74 Lake Shore Drive, Chicago River	81	46	53	36	66	91	23	62	37	38	59
100 Wells Street, Chicago River	150	65	301	288	159	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	921	680	799	800	1622	1090	642	800	838	380	1491
108 Loomis Street, South Branch Chicago River	297	179	181	253	325	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	156	202	294	548	1530	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	223	164	173	ND	ND	160	282	510	543	441	1444
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	180	393	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	129	104	153	245	303	154	327	352	245	481	1037
41 Harlem Avenue, Chicago Sanitary & Ship Canal	2668	2637	4314	3609	4126	5043	4970	5427	5730	5361	3750
42 Route 83, Chicago Sanitary & Ship Canal	1011	935	866	460	1580	1046	886	1300	1941	951	1815
48 Stephen Street, Chicago Sanitary & Ship Canal	469	386	365	419	812	537	781	849	867	948	1160
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	205	186	179	159	291	256	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	12	11	12	12	20	18	12	27	13	21	49
50 Burnham Avenue, Wolf Lake	77	53	37	13	32	24	15	13	18	9	13
55 130th Street, Calumet River	37	26	32	19	82	53	23	26	30	47	54
86 Burnham Avenue, Grand Calumet River	2377	1104	1695	488	2056	3323	4100	4325	1849	3383	3551
56 Indiana Avenue, Little Calumet River	73	103	75	89	364	124	55	130	78	167	120
76 Halsted Street, Little Calumet River	2759	2775	2990	2024	2550	4774	3792	3747	2927	7302	4806
52 Wentworth Avenue, Little Calumet River	1934	1284	2247	976	2211	3501	1701	2033	1402	1242	1264
54 Joe Orr Road, Thorn Creek	14257	1588	2922	1083	1083	2617	2173	1132	6513	3287	3992
97 170th Street, Thorn Creek	2119	1292	1347	637	1197	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	3181	4103	2329	576	1623	3088	5189	1724	2531	1683	1328
58 Ashland Avenue, Calumet Sag Channel	2365	2616	2135	1157	3095	3170	2660	2220	4858	4189	6904
59 Cicero Avenue, Calumet Sag Channel	857	1041	1105	471	1057	656	673	749	2165	2823	1964
43 Route 83, Calumet Sag Channel	57	147	103	93	298	79	87	201	227	654	466
Des Plaines River System											
90 Route 19, Poplar Creek	417	92	387	113	129	948	146	136	355	388	776
63 Longmeadow Lane, West Branch DuPage River	ND	ND	1400	ND	1075	2538	386	603	1624	6965	1113
89 Walnut Lane, West Branch DuPage River	2026	1121	2181	1600	1273	1943	590	666	1816	7295	1903
64 Lake Street, West Branch DuPage River	2144	967	1731	1532	1739	1889	658	1083	1564	6738	1750
79 Higgins Road, Salt Creek	499	84	568	82	49	305	45	52	97	307	69
80 Arlington Heights Road, Salt Creek	389	529	678	303	426	623	265	260	725	632	1050
18 Devon Avenue, Salt Creek	1014	1214	1668	939	1140	807	687	1154	845	2137	1431
24 Wolf Road, Salt Creek	1034	337	2012	440	507	1109	468	1038	2552	2257	2166
109 Brookfield Avenue, Salt Creek	1480	1499	3461	2056	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	782	599	1459	1320	653	1211	2706	1070
77 Elmhurst Road, Higgins Creek	1932	488	7317	2395	598	636	369	267	498	2404	1333
78 Wille Road, Higgins Creek	382	162	559	475	256	536	223	181	489	1019	399
12 Lake-Cook Road, Buffalo Creek	359	208	764	485	287	279	230	186	504	722	402
13 Lake-Cook Road, Des Plaines River	650	240	566	284	269	440	350	392	735	945	698
17 Oakton Steet, Des Plaines River	639	342	1128	345	492	915	765	360	876	1652	613
19 Belmont Avenue, Des Plaines River	523	410	1021	709	440	734	1210	574	1780	4059	3442
20 Roosevelt Road, Des Plaines River	950	662	1309	913	422	790	1224	725	1979	3175	3101
22 Ogden Avenue, Des Plaines River	1247	792	1023	900	519	1121	609	538	1722	4029	1666
23 Willow Springs Road, Des Plaines River	480	303	1664	351	232	835	367	423	533	1020	458
29 Stephen Street, Des Plaines River	248	202	568	276	275	528	270	241	921	405	305
91 Material Service Road, Des Plaines River	260	135	564	122	367	295	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	3763	2603	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-77: ESCHERICHIA COLI MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (fcu/100mL)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	2140	5099	ND	1232	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	943	451	380	506	541	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	243	956	319	429	467	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	443	432	180	254	629	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	515	579	418	581	905	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	276	142	134	387	634	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	734	604	1110	534	812	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	791	337	934	1553	9471	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	78	267	271	4382	139	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	974	835	4035	1409	217	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	10341	3302	7271	9539	861	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	10236	5652	8204	14164	8842	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	9844	6376	7083	9158	3387	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	7280	2569	4688	6747	2627	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	2667	1272	2882	2128	1123	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	24	49	44	20	24	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	119	49	231	307	175	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	461	463	427	565	417	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	61	72	70	176	183	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	102	78	251	173	810	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	156	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	342	77	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	78	177	94	224	67	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	2267	2567	2488	2925	3795	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	1340	553	787	715	2345	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	796	407	322	530	922	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	148	128	81	177	69	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	12	10	14	10	10	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	183	37	58	12	9	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	57	15	90	14	10	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	11506	6199	6709	449	220	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	63	48	142	101	228	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	2838	2420	2787	1815	3240	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	2278	3794	1169	846	3688	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	16399	1508	22000	721	1339	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	2442	1631	2984	529	2237	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	5565	5967	2705	615	1622	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	2253	2454	1264	690	2661	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	797	1139	418	500	271	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	60	218	39	75	145	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	775	42	103	82	251	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	1259	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	2202	727	2139	1366	395	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	2216	908	1357	1150	1102	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	158	89	423	61	34	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	487	370	552	209	294	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	1202	1164	2722	1146	3950	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	1077	165	7589	336	30	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	1289	2994	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	330	375	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	890	268	5717	2097	687	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	1077	127	539	425	71	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	395	157	737	101	50	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	684	77	223	569	163	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	295	161	147	553	185	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	439	458	277	1018	202	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	480	524	773	903	419	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	606	724	88	837	515	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	169	202	1220	506	253	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	186	122	117	641	273	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	114	248	363	90	644	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	2794	2596	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-78: TOTAL CALCIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	106.6	80.3	ND	ND	ND	71.0	61.3
106 Dundee Road, West Fork North Branch Chicago River	70.3	85.3	54.9	79.0	79.8	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	80.8	71.5	70.9	72.8	71.0	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	65.6	64.3	64.1	71.9	74.2	66.0	69.1	71.3	65.5	73.1	62.6
104 Glenview Road, North Branch Chicago River	61.5	64.4	65.5	69.0	68.8	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	70.5	74.2	69.8	75.4	79.4	73.1	70.0	82.2	76.6	83.8	64.9
105 Frontage Road, Skokie River	62.0	63.2	59.9	67.7	66.2	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	70.6	68.7	65.7	70.0	70.6	63.8	64.7	69.0	70.2	71.5	62.2
96 Albany Avenue, North Branch Chicago River	69.4	65.1	64.6	69.2	72.8	56.6	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	39.1	38.8	41.0	43.6	37.7	43.4	43.4	45.1	42.6	48.2	39.6
102 Oakton Street, North Shore Channel	47.8	45.8	50.4	51.9	42.6	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	51.9	57.1	53.4	58.5	61.8	52.9	56.5	58.7	55.3	56.0	55.7
101 Foster Avenue, North Shore Channel	52.9	57.7	54.3	58.8	57.6	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	55.7	59.8	56.4	60.9	63.9	55.6	57.8	62.8	58.6	59.8	58.4
73 Diversey Parkway, North Branch Chicago River	54.7	60.8	55.4	61.7	65.3	54.9	58.5	62.5	58.2	61.1	58.0
46 Grand Avenue, North Branch Chicago River	57.3	62.1	56.6	60.2	64.3	55.4	56.5	61.9	57.4	58.2	62.2
74 Lake Shore Drive, Chicago River	40.6	44.2	40.9	43.1	46.1	44.2	39.9	41.1	39.3	40.7	37.2
100 Wells Street, Chicago River	44.1	46.0	48.0	49.3	49.4	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	52.0	52.8	55.2	57.3	58.4	53.3	55.7	54.3	48.5	52.1	45.2
108 Loomis Street, South Branch Chicago River	54.3	52.0	52.8	56.8	51.5	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	51.9	53.3	52.5	56.7	58.0	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	52.9	53.1	53.4	ND	ND	53.0	56.5	55.0	51.7	52.4	44.8
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	57.8	56.1	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	54.5	55.1	52.1	59.9	55.7	53.3	54.4	52.8	52.6	50.7	48.5
41 Harlem Avenue, Chicago Sanitary & Ship Canal	54.2	54.6	53.8	57.3	59.6	54.3	56.8	56.1	56.0	54.0	53.3
42 Route 83, Chicago Sanitary & Ship Canal	56.4	56.5	56.6	58.7	59.8	53.6	54.9	56.1	56.9	56.6	54.3
48 Stephen Street, Chicago Sanitary & Ship Canal	60.1	59.8	58.7	61.6	63.4	58.5	57.4	57.8	61.5	60.2	57.0
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65.2
92 Lockport Forebay, Chicago Sanitary & Ship Canal	59.5	59.9	59.0	62.6	63.8	57.3	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	36.5	37.1	38.6	41.1	40.2	39.7	39.5	39.0	38.6	40.7	38.9
50 Burnham Avenue, Wolf Lake	37.3	36.6	35.3	35.9	34.5	34.3	32.5	35.8	38.2	37.3	33.9
55 130th Street, Calumet River	43.4	43.2	43.4	47.2	48.8	44.9	43.4	43.9	44.8	45.7	43.9
86 Burnham Avenue, Grand Calumet River	68.3	82.5	86.9	79.6	85.6	73.3	71.0	73.4	75.0	96.7	84.1
56 Indiana Avenue, Little Calumet River	47.8	49.2	52.0	58.6	52.5	49.7	50.4	54.2	55.3	53.9	52.2
76 Halsted Street, Little Calumet River	63.1	62.1	62.2	64.8	71.1	63.6	62.1	63.7	66.8	70.3	68.8
52 Wentworth Avenue, Little Calumet River	74.4	86.4	96.3	94.5	82.8	85.9	75.0	80.5	88.5	97.3	82.0
54 Joe Orr Road, Thorn Creek	76.0	80.8	64.1	85.5	85.5	72.8	75.6	76.9	80.0	84.1	81.3
97 170th Street, Thorn Creek	83.0	84.0	80.6	100.8	88.6	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	75.4	78.9	84.3	86.5	79.0	84.5	75.2	72.8	81.9	91.1	86.5
58 Ashland Avenue, Calumet Sag Channel	65.3	65.4	66.2	73.7	76.2	67.1	64.0	61.0	68.7	71.3	70.9
59 Cicero Avenue, Calumet Sag Channel	65.4	66.4	64.8	68.2	72.7	68.1	65.2	66.6	68.8	73.1	73.8
43 Route 83, Calumet Sag Channel	64.7	63.1	65.3	69.8	72.5	70.4	66.1	65.7	70.5	72.1	70.6
Des Plaines River System											
90 Route 19, Poplar Creek	65.6	76.3	61.3	77.0	78.0	64.8	74.1	80.4	70.6	78.2	79.4
63 Longmeadow Lane, West Branch DuPage River	ND	ND	59.8	ND	99.6	63.8	76.9	76.9	79.3	65.6	84.4
89 Walnut Lane, West Branch DuPage River	58.5	64.5	55.8	63.1	67.8	59.3	61.9	61.2	60.0	59.9	67.3
64 Lake Street, West Branch DuPage River	59.7	70.4	55.6	65.0	69.3	59.9	60.9	65.3	63.8	63.1	68.1
79 Higgins Road, Salt Creek	65.9	75.8	58.1	67.5	79.3	65.9	60.0	69.6	65.1	70.8	74.5
80 Arlington Heights Road, Salt Creek	66.4	64.1	60.9	68.7	69.2	59.4	58.4	63.1	63.7	67.6	68.8
18 Devon Avenue, Salt Creek	66.4	64.4	58.9	68.2	68.9	58.8	60.1	63.7	67.2	66.1	68.3
24 Wolf Road, Salt Creek	66.1	69.7	59.2	73.7	75.3	67.7	66.9	85.3	69.0	77.9	76.8
109 Brookfield Avenue, Salt Creek	64.2	69.9	58.5	58.5	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	92.5	80.7	65.5	65.1	75.8	68.0	75.3	76.8
77 Elmhurst Road, Higgins Creek	60.1	73.7	48.3	63.2	79.6	62.4	67.5	79.4	66.5	68.8	75.4
78 Wille Road, Higgins Creek	69.2	70.9	63.4	74.4	80.9	67.6	72.3	80.1	73.6	74.3	74.2
12 Lake-Cook Road, Buffalo Creek	85.5	76.8	67.0	83.1	81.7	71.3	70.5	75.2	73.5	75.5	82.1
13 Lake-Cook Road, Des Plaines River	66.8	71.1	65.2	76.8	76.5	67.3	60.5	73.9	70.7	75.5	78.3
17 Oakton Steet, Des Plaines River	66.6	72.2	64.1	75.6	81.1	67.1	63.7	76.4	70.0	77.1	75.3
19 Belmont Avenue, Des Plaines River	67.1	72.7	62.4	74.7	77.9	65.5	62.1	73.4	71.4	75.3	79.5
20 Roosevelt Road, Des Plaines River	65.8	71.0	60.9	74.7	75.4	64.2	61.5	73.6	72.0	76.3	76.7
22 Ogen Avenue, Des Plaines River	63.7	69.9	68.7	73.8	75.4	65.2	63.6	74.1	70.8	76.0	79.3
23 Willow Springs Road, Des Plaines River	66.1	69.7	61.7	70.8	75.5	66.0	62.6	74.2	70.9	76.0	76.5
29 Stephen Street, Des Plaines River	67.4	70.0	65.9	76.6	76.6	67.2	63.1	75.1	75.3	77.3	75.4
91 Material Service Road, Des Plaines River	68.3	71.1	65.6	74.9	73.0	69.3	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	77.1	86.8	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-79: TOTAL MAGNESIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	46.1	32.8	ND	ND	ND	29.0	24.9
106 Dundee Road, West Fork North Branch Chicago River	29.0	35.4	23.6	34.0	37.7	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	32.2	27.6	28.3	30.5	31.6	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	33.1	29.2	29.2	33.0	33.9	30.0	31.6	33.3	30.8	33.5	28.1
104 Glenview Road, North Branch Chicago River	27.7	27.3	28.3	29.6	31.3	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	32.4	31.6	29.8	33.5	35.4	32.8	31.4	37.8	35.2	39.3	26.6
105 Frontage Road, Skokie River	27.2	26.9	25.3	29.2	30.5	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	30.7	28.4	27.0	29.8	31.8	27.9	27.8	31.9	31.7	30.7	26.7
96 Albany Avenue, North Branch Chicago River	29.7	26.8	26.6	29.3	31.4	23.2	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	13.3	13.1	14.1	15.2	12.2	15.7	15.4	14.9	14.4	15.9	13.6
102 Oakton Street, North Shore Channel	16.9	15.8	17.5	17.9	14.4	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	18.2	20.3	19.1	21.2	23.2	19.3	19.9	21.8	20.3	19.8	19.2
101 Foster Avenue, North Shore Channel	18.6	20.8	19.4	21.3	21.3	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	20.1	22.2	20.5	22.8	25.1	21.0	21.5	24.9	22.3	22.0	20.9
73 Diversey Parkway, North Branch Chicago River	19.5	22.4	20.0	23.1	25.6	20.8	21.6	24.4	21.7	22.5	20.8
46 Grand Avenue, North Branch Chicago River	20.8	22.3	20.4	22.5	24.8	20.9	20.9	24.2	21.5	21.2	22.1
74 Lake Shore Drive, Chicago River	14.2	15.5	13.7	14.7	16.1	15.7	13.4	14.3	12.9	13.6	11.8
100 Wells Street, Chicago River	15.3	16.3	16.7	17.4	18.0	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	18.6	19.0	19.9	21.1	22.2	19.4	20.5	20.7	17.4	18.3	15.8
108 Loomis Street, South Branch Chicago River	19.8	19.0	18.8	21.0	19.0	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	18.5	19.2	18.7	20.6	21.7	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	19.2	19.3	19.1	ND	ND	ND	21.3	21.4	18.5	18.7	16.0
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	21.4	21.2	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	19.7	19.9	18.5	21.9	21.3	19.7	20.3	20.0	18.7	17.8	16.8
41 Harlem Avenue, Chicago Sanitary & Ship Canal	19.6	19.9	19.2	21.1	23.1	20.1	21.0	21.8	20.1	19.3	18.7
42 Route 83, Chicago Sanitary & Ship Canal	20.5	20.6	20.2	21.8	23.0	19.8	20.2	21.5	20.4	20.1	19.0
48 Stephen Street, Chicago Sanitary & Ship Canal	22.2	21.9	21.3	22.9	24.6	21.9	21.2	22.4	22.6	21.6	19.7
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.8
92 Lockport Forebay, Chicago Sanitary & Ship Canal	21.8	22.0	21.4	23.0	24.9	21.8	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	12.1	12.3	12.8	13.2	13.1	13.1	13.4	13.4	12.9	13.2	12.1
50 Burnham Avenue, Wolf Lake	13.7	13.4	13.2	14.4	12.6	13.0	13.2	13.3	12.9	13.0	11.6
55 130th Street, Calumet River	15.0	14.8	14.8	15.9	16.8	15.5	15.0	14.9	15.4	14.6	13.5
86 Burnham Avenue, Grand Calumet River	44.4	53.9	65.6	67.1	57.1	57.7	54.5	59.8	51.2	69.4	77.3
56 Indiana Avenue, Little Calumet River	17.8	18.5	19.2	23.8	20.1	22.3	21.6	27.8	26.5	24.0	23.1
76 Halsted Street, Little Calumet River	22.3	22.0	21.5	23.0	26.5	23.4	22.4	25.7	25.6	24.0	23.5
52 Wentworth Avenue, Little Calumet River	29.7	34.3	37.2	38.4	33.6	35.3	40.1	34.0	36.8	38.2	32.0
54 Joe Orr Road, Thorn Creek	33.8	33.9	26.5	38.4	39.3	34.2	36.3	36.0	36.8	38.2	36.5
97 170th Street, Thorn Creek	36.6	36.7	34.6	49.1	41.3	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	31.6	32.5	35.0	37.3	35.1	38.8	33.8	32.2	36.5	40.1	36.0
58 Ashland Avenue, Calumet Sag Channel	23.8	23.8	24.2	27.9	28.3	26.0	24.5	24.3	26.5	25.9	25.0
59 Cicero Avenue, Calumet Sag Channel	23.8	24.7	23.7	25.4	27.7	26.4	24.8	26.8	26.8	26.5	25.8
43 Route 83, Calumet Sag Channel	23.7	23.6	24.1	26.0	27.8	26.9	25.4	26.9	28.0	26.4	24.6
Des Plaines River System											
90 Route 19, Poplar Creek	29.8	34.4	27.5	34.6	36.7	31.3	36.5	37.9	31.8	35.0	35.3
63 Longmeadow Lane, West Branch DuPage River	ND	ND	22.3	ND	41.5	24.1	51.0	31.1	30.9	23.3	31.8
89 Walnut Lane, West Branch DuPage River	22.0	23.9	20.2	23.9	26.8	23.7	24.7	23.2	23.3	22.2	24.9
64 Lake Street, West Branch DuPage River	22.3	26.2	20.3	24.8	27.8	23.6	24.0	25.2	25.6	23.5	25.5
79 Higgins Road, Salt Creek	29.5	31.4	23.2	31.2	36.7	28.9	27.8	30.6	28.9	30.1	31.7
80 Arlington Heights Road, Salt Creek	25.9	24.4	23.4	27.0	28.6	24.1	23.5	25.1	26.1	26.6	26.1
18 Devon Avenue, Salt Creek	25.7	24.5	22.7	26.6	28.5	23.6	24.1	25.8	27.7	25.8	25.8
24 Wolf Road, Salt Creek	27.3	28.2	23.3	30.1	32.5	28.3	28.7	34.2	28.8	30.9	29.9
109 Brookfield Avenue, Salt Creek	26.7	28.3	23.2	24.0	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	37.4	34.6	27.7	28.0	32.0	29.2	29.9	30.8
77 Elmhurst Road, Higgins Creek	20.1	26.3	15.6	22.5	32.5	22.9	28.5	33.7	26.8	26.8	30.9
78 Wille Road, Higgins Creek	25.6	26.2	22.8	27.9	32.6	25.8	28.2	29.5	28.6	28.7	27.8
12 Lake-Cook Road, Buffalo Creek	39.7	33.5	30.3	39.0	38.3	33.2	34.5	34.4	34.9	34.0	37.9
13 Lake-Cook Road, Des Plaines River	29.6	31.8	28.7	35.1	36.1	31.6	27.7	33.4	32.8	34.0	35.2
17 Oakton Steet, Des Plaines River	29.9	32.5	27.9	33.9	37.7	30.7	28.6	34.8	32.4	33.9	34.1
19 Belmont Avenue, Des Plaines River	29.1	31.1	25.9	33.0	35.8	29.7	27.6	33.1	32.1	32.7	33.8
20 Roosevelt Road, Des Plaines River	28.7	31.4	25.5	33.0	35.0	29.3	27.6	34.2	32.3	33.3	33.1
22 Ogden Avenue, Des Plaines River	27.5	30.1	27.8	31.6	33.8	29.1	28.4	32.7	31.0	32.8	33.3
23 Willow Springs Road, Des Plaines River	28.8	30.3	25.9	31.0	34.4	29.7	28.3	33.4	32.0	33.0	33.5
29 Stephen Street, Des Plaines River	29.2	30.2	27.4	32.7	35.7	30.0	28.0	33.8	33.3	32.9	31.4
91 Material Service Road, Des Plaines River	29.9	30.9	27.5	32.5	32.8	31.0	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	28.0	31.9	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-80: HARDNESS MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	456	335	ND	ND	ND	297	256
106 Dundee Road, West Fork North Branch Chicago River	295	359	234	337	354	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	335	292	294	307	307	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	300	281	280	316	325	288	303	315	290	321	272
104 Glenview Road, North Branch Chicago River	268	273	280	294	301	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	310	316	297	326	344	318	304	361	336	371	272
105 Frontage Road, Skokie River	267	269	254	289	291	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	303	289	275	297	307	274	276	304	306	305	265
96 Albany Avenue, North Branch Chicago River	296	273	271	293	311	237	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	153	151	160	171	144	173	172	174	166	186	155
102 Oakton Street, North Shore Channel	189	179	198	203	166	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	205	226	212	233	250	211	223	236	221	222	218
101 Foster Avenue, North Shore Channel	209	229	215	235	231	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	222	241	225	246	263	225	233	260	238	240	232
73 Diversey Parkway, North Branch Chicago River	217	244	221	249	268	223	235	257	234	245	230
46 Grand Avenue, North Branch Chicago River	229	247	226	243	263	224	227	254	232	232	247
74 Lake Shore Drive, Chicago River	160	174	159	168	182	175	155	162	151	158	142
100 Wells Street, Chicago River	173	182	189	195	198	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	207	210	219	230	237	213	223	221	192	205	178
108 Loomis Street, South Branch Chicago River	217	208	209	228	207	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	206	212	208	226	234	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	211	212	212	ND	ND	214	229	226	205	208	178
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	233	228	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	217	219	206	240	227	214	219	214	208	200	190
41 Harlem Avenue, Chicago Sanitary & Ship Canal	216	218	213	230	244	218	228	230	223	214	210
42 Route 83, Chicago Sanitary & Ship Canal	225	226	225	236	244	215	220	229	226	224	214
48 Stephen Street, Chicago Sanitary & Ship Canal	241	240	234	248	260	236	230	237	247	239	223
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	265
92 Lockport Forebay, Chicago Sanitary & Ship Canal	238	240	235	251	262	233	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	141	143	149	157	154	153	154	153	150	156	147
50 Burnham Avenue, Wolf Lake	149	146	143	149	138	139	136	144	148	147	132
55 130th Street, Calumet River	170	169	169	183	191	176	170	171	175	174	165
86 Burnham Avenue, Grand Calumet River	354	428	487	475	449	421	402	430	398	527	528
56 Indiana Avenue, Little Calumet River	193	199	209	244	214	216	215	250	247	233	225
76 Halsted Street, Little Calumet River	249	246	244	256	287	255	247	265	272	274	269
52 Wentworth Avenue, Little Calumet River	308	357	393	394	345	360	352	341	372	400	337
54 Joe Orr Road, Thorn Creek	329	341	269	371	375	323	338	340	351	367	353
97 170th Street, Thorn Creek	358	361	344	454	391	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	318	331	355	370	342	371	327	314	355	393	364
58 Ashland Avenue, Calumet Sag Channel	261	261	265	299	307	275	261	252	281	285	280
59 Cicero Avenue, Calumet Sag Channel	261	268	260	275	296	279	265	276	282	292	291
43 Route 83, Calumet Sag Channel	259	255	262	282	295	286	270	275	291	289	277
Des Plaines River System											
90 Route 19, Poplar Creek	287	332	266	335	346	291	335	357	307	339	344
63 Longmeadow Lane, West Branch DuPage River	ND	ND	241	ND	419	258	402	320	325	260	342
89 Walnut Lane, West Branch DuPage River	237	260	222	256	280	246	256	248	246	241	271
64 Lake Street, West Branch DuPage River	241	283	222	264	287	247	251	267	265	254	275
79 Higgins Road, Salt Creek	286	319	241	297	349	284	264	300	282	301	317
80 Arlington Heights Road, Salt Creek	273	261	248	283	290	248	242	261	266	278	279
18 Devon Avenue, Salt Creek	272	262	241	280	289	244	249	265	282	271	277
24 Wolf Road, Salt Creek	277	290	244	308	322	286	285	354	291	322	315
109 Brookfield Avenue, Salt Creek	270	291	242	245	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	385	344	277	278	321	290	311	318
77 Elmhurst Road, Higgins Creek	233	292	185	250	332	250	286	337	276	282	316
78 Wille Road, Higgins Creek	278	285	252	301	336	275	297	321	301	303	300
12 Lake-Cook Road, Buffalo Creek	377	330	292	368	362	315	318	329	327	329	361
13 Lake-Cook Road, Des Plaines River	289	308	281	336	340	298	265	322	312	329	340
17 Oakton Steet, Des Plaines River	289	314	275	328	358	294	277	334	308	332	328
19 Belmont Avenue, Des Plaines River	287	310	263	322	342	286	269	320	310	323	338
20 Roosevelt Road, Des Plaines River	283	307	257	323	333	281	267	324	313	328	328
22 Ogden Avenue, Des Plaines River	272	298	286	314	327	282	276	320	304	325	335
23 Willow Springs Road, Des Plaines River	284	299	260	305	330	287	273	323	309	326	329
29 Stephen Street, Des Plaines River	288	299	278	326	338	291	273	326	325	329	318
91 Material Service Road, Des Plaines River	293	305	277	321	317	301	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	308	348	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-81: GROSS ALPHA RADIOACTIVITY MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (pCi/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	6.20	6.38	3.79	4.49	4.77	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.14	4.36	4.80	4.41	4.67	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	5.34	4.74	4.53	3.82	6.05	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	5.50	4.19	4.47	3.72	4.57	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	5.50	4.51	4.34	3.78	4.86	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	5.03	4.26	3.87	3.79	4.53	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	5.91	4.84	4.92	4.15	4.88	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	5.43	4.01	4.25	4.39	4.71	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	3.30	3.00	3.43	3.40	3.45	4.23	3.40	ND	2.44	3.55	0.20	
102 Oakton Street, North Shore Channel	4.07	3.23	3.67	3.64	4.03	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	4.27	3.62	3.54	3.72	4.29	4.21	3.49	ND	3.09	3.13	0.28	
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	3.23	3.43	3.14	3.27	4.01	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	3.61	3.44	3.41	3.45	4.25	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.17	3.87	3.67	3.70	4.32	4.22	3.96	ND	2.90	2.94	0.31	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	4.27	3.93	3.49	3.66	4.49	4.26	3.64	ND	3.07	3.12	0.31	
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	4.36	3.57	ND	3.31	3.47	0.22	
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	4.25	3.53	ND	3.06	3.35	0.49	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	4.53	4.00	3.62	3.83	4.50	4.44	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	3.03	2.90	3.22	3.00	3.79	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	3.33	2.94	3.12	2.95	3.44	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	3.50	3.17	3.50	3.30	3.76	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	3.56	3.43	3.76	3.57	4.25	4.30	3.51	ND	2.95	3.09	0.36	
76 Halsted Street, Little Calumet River	4.66	3.68	3.99	3.72	4.34	4.39	3.70	ND	3.17	2.43	0.36	
52 Wentworth Avenue, Little Calumet River	4.88	3.80	4.59	4.46	4.43	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	8.99	6.72	4.00	8.21	5.73	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	7.46	6.43	6.15	5.67	4.99	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	6.19	4.35	4.73	4.68	4.63	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	4.41	3.62	ND	3.59	3.32	0.38	
Des Plaines River System												
90 Route 19, Poplar Creek	5.19	4.76	3.92	4.37	5.63	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	3.57	ND	5.23	4.21	4.14	ND	4.15	5.07	2.07	
89 Walnut Lane, West Branch DuPage River	4.77	4.32	3.78	4.07	4.53	4.13	3.59	ND	3.87	3.53	0.51	
64 Lake Street, West Branch DuPage River	5.06	4.51	3.69	4.18	4.91	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	6.27	5.20	4.65	4.23	5.54	4.37	3.64	ND	4.00	4.71	1.16	
80 Arlington Heights Road, Salt Creek	5.71	4.59	4.28	4.00	5.07	4.19	3.53	ND	4.04	3.55	0.39	
18 Devon Avenue, Salt Creek	5.85	4.59	4.28	3.97	5.06	ND	ND	ND	2.79	ND	ND	ND
24 Wolf Road, Salt Creek	4.81	4.52	4.32	4.79	4.45	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	4.76	4.55	4.26	3.38	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	7.16	4.98	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	7.77	5.90	4.54	6.04	5.82	4.42	3.77	ND	4.37	4.85	1.68	
78 Wille Road, Higgins Creek	4.79	4.19	3.98	4.43	5.44	4.24	3.69	ND	3.42	3.69	0.72	
12 Lake-Cook Road, Buffalo Creek	5.32	4.36	4.73	4.26	4.98	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	5.27	4.08	4.04	4.10	5.26	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	5.30	4.27	4.08	4.50	5.26	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	5.46	4.09	4.15	4.56	4.69	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	5.02	4.43	4.15	4.92	4.80	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	5.07	4.10	4.25	4.62	4.83	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	4.93	4.21	4.19	4.17	4.85	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	4.93	4.19	4.29	4.74	4.86	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	5.70	4.72	4.19	4.13	5.12	4.54	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	6.48	5.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-82: GROSS BETA RADIOACTIVITY MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (pCi/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	11.58	16.75	8.90	8.00	11.92	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	11.05	11.05	10.27	9.99	7.77	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.15	7.41	7.37	6.64	7.80	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	11.27	9.48	8.90	12.84	7.59	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	8.83	7.13	7.35	6.70	6.56	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	10.79	9.60	9.93	8.46	7.77	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	11.51	8.93	10.17	9.49	7.41	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	10.61	9.09	9.53	8.47	7.24	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	4.28	4.48	4.82	6.79	4.44	6.67	5.97	ND	5.03	7.76	3.08	
102 Oakton Street, North Shore Channel	6.88	5.78	6.45	6.70	5.43	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7.88	8.29	7.70	7.94	7.12	11.30	8.46	ND	8.21	7.23	6.45	
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	4.29	5.52	4.80	4.87	5.82	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	5.60	6.57	6.36	5.36	7.03	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.38	8.91	8.13	6.80	8.01	9.05	7.36	ND	6.07	6.34	5.90	
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.98	8.92	8.38	6.66	8.32	9.33	9.18	ND	6.93	6.57	7.16	
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	9.04	9.32	ND	7.70	6.64	6.97	
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	9.65	10.26	ND	7.06	7.22	7.34	
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	8.70	9.03	9.22	8.31	7.93	9.11	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	4.99	4.77	3.99	4.31	4.92	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	4.94	7.01	4.81	4.77	4.89	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	6.14	6.79	6.10	5.72	6.36	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	6.63	6.99	7.48	6.80	8.20	7.59	7.07	ND	6.48	6.50	6.78	
76 Halsted Street, Little Calumet River	9.11	8.41	9.54	9.00	7.44	10.27	9.25	ND	8.50	9.10	9.21	
52 Wentworth Avenue, Little Calumet River	10.90	12.00	12.91	12.46	9.42	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	14.81	12.20	10.77	12.05	7.95	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	13.04	11.68	12.14	12.41	8.40	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	11.25	10.88	10.93	10.76	8.89	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	ND	ND	ND	ND	ND	9.40	8.97	ND	8.74	7.89	9.39	
Des Plaines River System												
90 Route 19, Poplar Creek	6.75	5.59	6.76	5.70	5.91	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	5.41	ND	7.02	7.30	8.49	ND	8.53	8.86	11.98	
89 Walnut Lane, West Branch DuPage River	10.62	9.17	10.50	10.82	9.50	9.61	10.64	ND	10.63	9.23	11.10	
64 Lake Street, West Branch DuPage River	10.94	10.71	10.56	10.72	10.14	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	8.35	8.15	8.41	8.09	7.05	7.01	6.06	ND	7.21	8.02	8.41	
80 Arlington Heights Road, Salt Creek	10.26	9.43	9.54	9.12	9.32	9.75	11.95	ND	8.84	7.79	9.91	
18 Devon Avenue, Salt Creek	11.03	9.86	10.54	9.77	8.27	ND	ND	ND	11.00	ND	ND	ND
24 Wolf Road, Salt Creek	11.39	9.45	10.43	10.71	9.13	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	10.71	8.96	9.41	10.31	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	10.68	9.41	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	11.23	8.33	9.76	8.82	7.32	7.37	7.18	ND	6.88	8.69	12.58	
78 Wille Road, Higgins Creek	15.45	13.34	13.15	15.24	15.72	16.49	16.83	ND	13.15	9.28	15.08	
12 Lake-Cook Road, Buffalo Creek	6.59	7.66	8.44	7.42	6.44	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	11.41	9.53	10.71	9.94	8.21	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	10.16	9.23	10.61	9.39	7.81	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	11.57	9.77	10.62	10.73	8.37	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	10.91	8.99	10.23	10.38	7.89	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	11.04	9.51	9.44	10.33	7.92	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	10.68	9.37	9.32	10.28	8.78	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	10.87	9.16	10.23	10.53	8.36	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	12.34	9.48	10.75	9.88	8.77	9.21	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	8.52	8.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-83: CHLOROPHYLL *a* MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	14.6	29.1	47.9	9.6	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	29.3	21.1	19.0	14.4	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	8.0	6.7	11.1	11.6	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	10.1	12.1	32.9	18.1	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	12.0	22.5	10.3	11.5	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	15.6	20.4	21.5	21.5	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	24.2	15.8	16.7	16.2	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	35.6	21.5	18.1	11.7	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	3.6	2.9	8.1	12.5	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	8.1	12.5	4.8	17.0	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.6	1.4	1.2	1.5	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	2.2	1.9	4.3	1.9	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	2.8	4.0	4.9	4.9	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	2.6	3.8	4.7	3.9	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	4.3	5.8	5.7	3.6	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	3.3	4.7	3.2	2.7	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	2.8	3.0	3.7	3.0	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	4.2	4.1	5.2	4.6	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	5.4	7.2	6.1	3.4	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	21.5	27.4	9.5	9.2	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	14.1	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.5	6.0	6.3	5.0	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.6	3.4	2.7	2.4	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	6.4	4.2	4.4	4.2	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	5.3	3.5	7.2	3.9	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.2	3.9	7.2	5.3	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.9	1.4	1.6	1.7	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	6.8	4.8	8.7	3.8	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	2.9	4.0	7.1	9.9	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	57.7	61.9	38.1	31.1	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	16.4	7.2	24.4	26.4	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	7.1	3.8	10.3	9.1	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	6.0	5.5	9.0	5.7	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	12.4	6.7	8.5	9.2	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	8.2	8.8	11.5	10.4	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	9.2	7.5	10.0	11.2	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	10.4	4.8	15.3	11.5	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	7.5	5.2	20.3	11.8	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	8.8	4.4	24.5	15.8	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	12.5	8.1	14.6	15.9	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	9.1	3.7	9.0	5.9	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	24.6	15.4	29.5	24.9	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	31.0	36.4	37.4	30.6	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	12.4	11.2	18.6	12.9	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	14.8	15.7	19.5	16.2	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	11.0	6.4	12.9	13.7	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	11.3	9.9	17.9	12.8	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	22.8	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	14.1	8.5	11.4	14.3	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	2.5	2.6	4.3	2.8	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	31.3	21.8	30.2	35.4	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	27.5	21.0	34.1	27.3	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	34.3	18.3	42.2	20.5	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	23.2	13.0	35.3	11.2	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	23.4	14.2	28.7	10.0	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	19.1	14.1	45.5	12.9	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	29.0	15.9	33.0	20.6	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	49.0	25.5	49.1	34.5	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	34.6	40.4	56.2	35.3	ND	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	59.8	10.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-84: BENZENE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-85: ETHYLBENZENE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-86: TOLUENE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.500	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.333	0.667	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	2.200	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.333	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.800	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.857	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	2.200	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-87: XYLENE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-88: TOTAL SILVER MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	0.000	0.010
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.002	0.000	0.001	0.001	0.001	0.000	0.001	0.008
104 Glenview Road, North Branch Chicago River	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.001	0.002	0.000	0.001	0.000	0.001	0.000	0.001	0.008
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.000	0.001	0.008
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.001	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.009
102 Oakton Street, North Shore Channel	0.000	0.001	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.001	0.002	0.001	0.001	0.000	0.003	0.000	0.002	0.007
101 Foster Avenue, North Shore Channel	0.000	0.001	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.007
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.002	0.007
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.002	0.001	0.001	0.000	0.001	0.002	0.000	0.000	0.007
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.007
100 Wells Street, Chicago River	0.000	0.000	0.001	0.003	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.002	0.000	0.000	0.007
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.001	0.003	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	0.000	0.000	0.001	0.000	0.000	0.007
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.001	0.000	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.003	0.001	0.001	0.000	0.002	0.000	0.001	0.008
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.002	0.000	0.001	0.000	0.001	0.001	0.000	0.007
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.001	0.002	0.000	0.008
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.000	0.001	0.000	0.001	0.001	0.001	0.007
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.000	0.001	0.001	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.002	0.001	0.001	0.000	0.002	0.005	0.003	0.005
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.001	0.001	0.002	0.001	0.000	0.004	0.003	0.002	0.003
55 130th Street, Calumet River	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.000	0.002	0.004
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.002	0.002	0.002	0.000	0.001	0.003	0.003	0.005
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.001	0.001	0.002	0.001	0.000	0.000	0.000	0.003	0.005
76 Halsted Street, Little Calumet River	0.000	0.000	0.001	0.003	0.001	0.001	0.000	0.001	0.001	0.003	0.003
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.004	0.001	0.001	0.000	0.002	0.000	0.003	0.006
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.001	0.003	0.001	0.001	0.000	0.002	0.000	0.003	0.004
97 170th Street, Thorn Creek	0.000	0.000	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.001	0.002	0.000	0.000	0.001	0.003	0.004
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.003	0.003	0.000	0.000	0.003	0.002	0.003	0.004
59 Cicero Avenue, Calumet Sag Channel	0.001	0.000	0.000	0.001	0.002	0.000	0.000	0.002	0.006	0.003	0.004
43 Route 83, Calumet Sag Channel	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.002	0.003	0.002	0.004
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.007	0.000	0.008
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.002	0.000	0.000	0.000	0.006	0.000	0.010
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.005	0.000	0.008
64 Lake Street, West Branch DuPage River	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.001	0.006	0.001	0.008
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.006	0.000	0.009
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.008
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.006	0.000	0.006
24 Wolf Road, Salt Creek	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.002	0.000	0.007
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.000	0.001	0.001	0.000	0.000	0.002	0.001	0.006
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.006	0.001	0.008
78 Wille Road, Higgins Creek	0.000	0.001	0.000	0.002	0.001	0.000	0.000	0.000	0.003	0.000	0.008
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.006	0.000	0.008
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.003	0.001	0.001	0.000	0.000	0.005	0.000	0.009
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.002	0.000	0.007
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.002	0.000	0.008
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.008
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.000	0.007	0.001	0.008
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.005	0.000	0.006
29 Stephen Street, Des Plaines River	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.002	0.000	0.008
91 Material Service Road, Des Plaines River	0.000	0.000	0.001	0.000	0.001	0.000	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-89: TOTAL ARSENIC MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.010	0.000	ND	ND	ND	ND	0.000	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.001	0.000	0.003	0.000	0.000	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.000	0.000	0.005	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.001	0.000	0.003	0.008	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.000	0.001	0.004	0.007	0.008	0.000	0.000	0.000	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.001	0.000	0.000	0.002	0.009	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.003	0.007	0.000	0.000	0.000	0.000	0.000	0.011
96 Albany Avenue, North Branch Chicago River	0.001	0.000	0.000	0.000	0.005	0.000	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.001	0.001	0.001	0.002	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.002	0.010	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.003	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.005	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.003	0.010	0.013	0.000	0.000	0.000	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.003	0.005	0.011	0.000	0.000	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.001	0.000	0.001	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.007	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.006	0.006	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.003	0.004	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.003	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.005	0.004	0.001	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.002	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.002	0.000	0.000	0.006	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.008	0.005	0.005	0.027	0.000	0.023	0.000	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.002	0.002	0.005	0.000	0.000	0.000	0.000	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.006	0.004	0.018	0.000	0.000	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.001	0.000	0.000	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.010
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.017	0.006	0.007	0.000	0.000	0.018	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.010	0.005	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.003	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.001	0.000	0.000	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.009	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.005	0.006	0.000	0.000	0.000	0.018	0.000	0.000	0.000
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.003	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.005	0.010	0.000	0.000	0.000	0.000	0.000	0.000
89 Walnut Lane, West Branch DuPage River	0.000	0.001	0.000	0.002	0.006	0.000	0.000	0.017	0.000	0.000	0.000	0.008
64 Lake Street, West Branch DuPage River	0.001	0.001	0.000	0.004	0.005	0.009	0.000	0.000	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.001	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.002	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.002	0.006	0.005	0.000	0.022	0.000	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.001	0.000	0.000	0.007	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.001	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.000	0.003	0.007	0.000	0.000	0.000	0.001	0.008	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.001	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.001	0.000	0.000	0.002	0.002	0.007	0.000	0.000	0.000	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.001	0.001	0.000	0.000	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.001	0.000	0.001	0.008	0.003	0.012	0.000	0.018	0.000	0.000	0.000	0.000
17 Oakton Steet, Des Plaines River	0.001	0.000	0.001	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.001	0.000	0.000	0.004	0.003	0.000	0.000	0.020	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.001	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.002	0.000	0.000	0.002	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.001	0.000	0.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.001	0.001	0.000	0.004	0.002	0.000	0.000	0.025	0.000	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.002	0.001	0.000	0.003	0.004	0.004	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-90: TOTAL BARIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.089	0.083	ND	ND	ND	0.038	0.030
106 Dundee Road, West Fork North Branch Chicago River	0.051	0.069	0.048	0.054	0.072	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.055	0.048	0.051	0.051	0.052	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.042	0.040	0.045	0.045	0.054	0.041	0.039	0.040	0.039	0.041	0.043
104 Glenview Road, North Branch Chicago River	0.032	0.034	0.038	0.035	0.039	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.041	0.046	0.045	0.047	0.053	0.042	0.040	0.044	0.044	0.046	0.046
105 Frontage Road, Skokie River	0.030	0.033	0.029	0.032	0.036	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.041	0.040	0.039	0.040	0.047	0.033	0.032	0.034	0.036	0.036	0.024
96 Albany Avenue, North Branch Chicago River	0.040	0.037	0.039	0.043	0.044	0.029	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.025	0.023	0.024	0.030	0.026	0.023	0.023	0.022	0.024	0.026	0.023
102 Oakton Street, North Shore Channel	0.025	0.023	0.026	0.025	0.027	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.022	0.023	0.020	0.024	0.027	0.017	0.020	0.021	0.022	0.020	0.016
101 Foster Avenue, North Shore Channel	0.022	0.023	0.021	0.024	0.024	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.024	0.026	0.024	0.028	0.031	0.021	0.022	0.040	0.023	0.023	0.016
73 Diversey Parkway, North Branch Chicago River	0.024	0.026	0.027	0.029	0.033	0.020	0.048	0.023	0.023	0.023	0.017
46 Grand Avenue, North Branch Chicago River	0.025	0.028	0.024	0.028	0.031	0.021	0.021	0.023	0.025	0.023	0.013
74 Lake Shore Drive, Chicago River	0.023	0.025	0.023	0.025	0.026	0.023	0.020	0.021	0.022	0.022	0.018
100 Wells Street, Chicago River	0.023	0.024	0.023	0.027	0.028	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.024	0.024	0.023	0.027	0.031	0.022	0.024	0.024	0.023	0.023	0.027
108 Loomis Street, South Branch Chicago River	0.025	0.025	0.024	0.027	0.029	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.025	0.025	0.023	0.029	0.036	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.025	0.025	0.025	ND	ND	0.019	0.024	0.025	0.023	0.024	0.024
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.029	0.033	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.025	0.026	0.024	0.029	0.031	0.023	0.023	0.023	0.023	0.023	0.016
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.020	0.020	0.019	0.023	0.026	0.018	0.019	0.020	0.022	0.021	0.014
42 Route 83, Chicago Sanitary & Ship Canal	0.020	0.020	0.021	0.023	0.025	0.017	0.018	0.019	0.024	0.021	0.014
48 Stephen Street, Chicago Sanitary & Ship Canal	0.023	0.023	0.023	0.024	0.027	0.020	0.018	0.020	0.023	0.024	0.014
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.027	0.032	0.036	0.039	0.032	0.031
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.023	0.024	0.022	0.026	0.028	0.019	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.022	0.023	0.024	0.026	0.030	0.022	0.024	0.019	0.022	0.023	0.019
50 Burnham Avenue, Wolf Lake	0.033	0.032	0.028	0.029	0.031	0.024	0.024	0.028	0.028	0.028	0.022
55 130th Street, Calumet River	0.030	0.030	0.031	0.035	0.040	0.028	0.029	0.028	0.028	0.026	0.023
86 Burnham Avenue, Grand Calumet River	0.043	0.027	0.031	0.029	0.030	0.025	0.026	0.027	0.028	0.116	0.053
56 Indiana Avenue, Little Calumet River	0.030	0.030	0.030	0.037	0.035	0.029	0.032	0.028	0.032	0.032	0.027
76 Halsted Street, Little Calumet River	0.022	0.022	0.020	0.024	0.030	0.015	0.020	0.018	0.023	0.023	0.017
52 Wentworth Avenue, Little Calumet River	0.037	0.042	0.043	0.045	0.047	0.040	0.037	0.045	0.045	0.051	0.036
54 Joe Orr Road, Thorn Creek	0.042	0.034	0.030	0.030	0.032	0.019	0.023	0.025	0.025	0.023	0.016
97 170th Street, Thorn Creek	0.042	0.042	0.038	0.041	0.043	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.040	0.043	0.039	0.040	0.044	0.034	0.033	0.036	0.037	0.038	0.030
58 Ashland Avenue, Calumet Sag Channel	0.026	0.025	0.029	0.029	0.030	0.022	0.023	0.021	0.032	0.027	0.022
59 Cicero Avenue, Calumet Sag Channel	0.024	0.027	0.026	0.028	0.035	0.021	0.023	0.024	0.027	0.028	0.020
43 Route 83, Calumet Sag Channel	0.025	0.026	0.028	0.030	0.034	0.024	0.024	0.026	0.025	0.031	0.020
Des Plaines River System											
90 Route 19, Poplar Creek	0.112	0.102	0.079	0.071	0.067	0.053	0.102	0.063	0.071	0.085	0.067
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.047	ND	0.072	0.044	0.045	0.049	0.056	0.055	0.061
89 Walnut Lane, West Branch DuPage River	0.026	0.028	0.028	0.031	0.035	0.025	0.025	0.023	0.022	0.031	0.035
64 Lake Street, West Branch DuPage River	0.033	0.035	0.033	0.037	0.042	0.035	0.032	0.032	0.035	0.038	0.047
79 Higgins Road, Salt Creek	0.053	0.052	0.045	0.048	0.061	0.040	0.042	0.044	0.045	0.050	0.055
80 Arlington Heights Road, Salt Creek	0.033	0.030	0.031	0.030	0.035	0.026	0.023	0.023	0.029	0.030	0.021
18 Devon Avenue, Salt Creek	0.031	0.029	0.030	0.031	0.035	0.028	0.026	0.023	0.035	0.030	0.021
24 Wolf Road, Salt Creek	0.033	0.034	0.031	0.036	0.042	0.034	0.030	0.035	0.034	0.037	0.029
109 Brookfield Avenue, Salt Creek	0.033	0.036	0.034	0.028	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.046	0.048	0.033	0.030	0.033	0.034	0.035	0.030
77 Elmhurst Road, Higgins Creek	0.056	0.067	0.050	0.060	0.072	0.047	0.054	0.060	0.054	0.057	0.055
78 Wille Road, Higgins Creek	0.020	0.024	0.022	0.030	0.032	0.023	0.022	0.028	0.027	0.036	0.024
12 Lake-Cook Road, Buffalo Creek	0.056	0.047	0.048	0.055	0.056	0.046	0.048	0.046	0.048	0.053	0.054
13 Lake-Cook Road, Des Plaines River	0.038	0.038	0.038	0.044	0.044	0.036	0.060	0.037	0.036	0.037	0.033
17 Oakton Steet, Des Plaines River	0.040	0.040	0.041	0.044	0.047	0.039	0.035	0.040	0.038	0.041	0.045
19 Belmont Avenue, Des Plaines River	0.037	0.038	0.037	0.040	0.045	0.034	0.032	0.037	0.038	0.039	0.043
20 Roosevelt Road, Des Plaines River	0.037	0.038	0.035	0.042	0.043	0.034	0.033	0.038	0.038	0.038	0.032
22 Ogden Avenue, Des Plaines River	0.036	0.038	0.036	0.040	0.045	0.034	0.032	0.035	0.039	0.036	0.033
23 Willow Springs Road, Des Plaines River	0.036	0.037	0.034	0.038	0.045	0.031	0.060	0.036	0.038	0.037	0.034
29 Stephen Street, Des Plaines River	0.035	0.037	0.036	0.040	0.045	0.034	0.059	0.038	0.038	0.038	0.029
91 Material Service Road, Des Plaines River	0.035	0.038	0.036	0.039	0.044	0.032	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.053	0.056	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-91: TOTAL BORON MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.171	0.208	ND	ND	ND	0.328	ND
106 Dundee Road, West Fork North Branch Chicago River	0.178	0.203	0.147	0.139	0.186	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.191	0.139	0.137	0.159	0.151	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.176	0.170	0.113	0.122	0.104	0.134	0.132	0.113	0.133	0.164	ND
104 Glenview Road, North Branch Chicago River	0.182	0.155	0.138	0.167	0.156	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.161	0.129	0.137	0.120	0.122	0.161	0.125	0.155	0.188	0.199	ND
105 Frontage Road, Skokie River	0.188	0.172	0.193	0.186	0.166	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.192	0.153	0.176	0.172	0.132	0.194	0.178	0.167	0.227	0.234	ND
96 Albany Avenue, North Branch Chicago River	0.185	0.150	0.164	0.169	0.157	0.243	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.039	0.037	0.050	0.052	0.030	0.050	0.015	0.039	0.064	0.117	ND
102 Oakton Street, North Shore Channel	0.093	0.076	0.091	0.118	0.058	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.180	0.172	0.190	0.185	0.211	0.233	0.208	0.215	0.274	0.233	ND
101 Foster Avenue, North Shore Channel	0.177	0.174	0.176	0.176	0.201	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.168	0.161	0.166	0.160	0.183	0.201	0.188	0.180	0.243	0.233	ND
73 Diversey Parkway, North Branch Chicago River	0.160	0.162	0.175	0.161	0.173	0.205	0.193	0.175	0.227	0.233	ND
46 Grand Avenue, North Branch Chicago River	0.172	0.160	0.162	0.161	0.178	0.214	0.189	0.181	0.223	0.230	ND
74 Lake Shore Drive, Chicago River	0.061	0.073	0.057	0.055	0.082	0.091	0.085	0.047	0.055	0.092	ND
100 Wells Street, Chicago River	0.082	0.092	0.103	0.080	0.091	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.132	0.144	0.149	0.140	0.135	0.178	0.156	0.120	0.155	0.172	ND
108 Loomis Street, South Branch Chicago River	0.135	0.143	0.144	0.136	0.128	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.134	0.139	0.143	0.135	0.148	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.133	0.141	0.145	ND	ND	0.162	0.141	0.119	0.193	0.168	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.136	0.129	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.133	0.144	0.145	0.145	0.143	0.174	0.133	0.113	0.188	0.169	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.176	0.207	0.192	0.184	0.190	0.200	0.175	0.173	0.243	0.210	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.219	0.261	0.226	0.232	0.206	0.219	0.183	0.188	0.262	0.232	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.216	0.221	0.217	0.227	0.219	0.247	0.197	0.185	0.280	0.229	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.223	0.206	0.203	0.206	0.209	0.224	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.042	0.046	0.035	0.039	0.045	0.033	0.002	0.053	0.092	0.100	ND
50 Burnham Avenue, Wolf Lake	0.147	0.144	0.105	0.104	0.100	0.069	0.035	0.096	0.153	0.169	ND
55 130th Street, Calumet River	0.113	0.111	0.084	0.120	0.146	0.084	0.061	0.091	0.150	0.140	ND
86 Burnham Avenue, Grand Calumet River	0.287	0.429	0.430	0.383	0.370	0.371	0.386	0.338	0.388	0.506	ND
56 Indiana Avenue, Little Calumet River	0.116	0.127	0.128	0.161	0.152	0.159	0.123	0.168	0.214	0.189	ND
76 Halsted Street, Little Calumet River	0.205	0.189	0.187	0.201	0.228	0.286	0.244	0.253	0.293	0.340	ND
52 Wentworth Avenue, Little Calumet River	0.224	0.242	0.267	0.321	0.209	0.276	0.235	0.238	0.345	0.296	ND
54 Joe Orr Road, Thorn Creek	0.269	0.320	0.252	0.353	0.351	0.410	0.353	0.357	0.428	0.413	ND
97 170th Street, Thorn Creek	0.251	0.269	0.279	0.332	0.254	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.232	0.223	0.265	0.270	0.212	0.321	0.267	0.259	0.421	0.329	ND
58 Ashland Avenue, Calumet Sag Channel	0.206	0.194	0.210	0.226	0.232	0.280	0.227	0.260	0.332	0.261	ND
59 Cicero Avenue, Calumet Sag Channel	0.199	0.193	0.192	0.207	0.228	0.277	0.230	0.257	0.298	0.279	ND
43 Route 83, Calumet Sag Channel	0.207	0.187	0.182	0.194	0.215	0.250	0.235	0.243	0.298	0.283	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.071	0.056	0.056	0.056	0.063	0.059	0.012	0.058	0.143	0.158	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.040	ND	0.083	0.069	0.128	0.180	0.223	0.197	ND
89 Walnut Lane, West Branch DuPage River	0.278	0.274	0.264	0.285	0.296	0.285	0.311	0.328	0.393	0.339	ND
64 Lake Street, West Branch DuPage River	0.238	0.225	0.228	0.224	0.243	0.203	0.238	0.266	0.309	0.296	ND
79 Higgins Road, Salt Creek	0.098	0.089	0.073	0.100	0.099	0.086	0.071	0.092	0.169	0.186	ND
80 Arlington Heights Road, Salt Creek	0.205	0.197	0.191	0.207	0.223	0.207	0.225	0.233	0.278	0.279	ND
18 Devon Avenue, Salt Creek	0.207	0.189	0.187	0.192	0.211	0.195	0.213	0.218	0.257	0.268	ND
24 Wolf Road, Salt Creek	0.233	0.193	0.177	0.227	0.184	0.182	0.203	0.195	0.273	0.277	ND
109 Brookfield Avenue, Salt Creek	0.262	0.195	0.198	0.247	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.179	0.196	0.176	0.200	0.233	0.306	0.267	ND
77 Elmhurst Road, Higgins Creek	0.081	0.084	0.063	0.074	0.116	0.083	0.124	0.148	0.202	0.237	ND
78 Wille Road, Higgins Creek	0.366	0.303	0.282	0.335	0.377	0.367	0.376	0.373	0.436	0.404	ND
12 Lake-Cook Road, Buffalo Creek	0.107	0.096	0.078	0.101	0.095	0.101	0.117	0.099	0.173	0.184	ND
13 Lake-Cook Road, Des Plaines River	0.221	0.191	0.192	0.189	0.167	0.166	0.166	0.176	0.250	0.297	ND
17 Oakton Steet, Des Plaines River	0.215	0.167	0.186	0.191	0.158	0.146	0.166	0.171	0.235	0.296	ND
19 Belmont Avenue, Des Plaines River	0.236	0.181	0.209	0.207	0.178	0.176	0.215	0.208	0.271	0.238	ND
20 Roosevelt Road, Des Plaines River	0.237	0.182	0.207	0.218	0.169	0.181	0.205	0.213	0.285	0.313	ND
22 Ogden Avenue, Des Plaines River	0.236	0.194	0.211	0.214	0.169	0.178	0.201	0.213	0.321	0.308	ND
23 Willow Springs Road, Des Plaines River	0.243	0.182	0.176	0.219	0.172	0.185	0.196	0.208	0.317	0.279	ND
29 Stephen Street, Des Plaines River	0.243	0.177	0.195	0.204	0.172	0.182	0.185	0.201	0.324	0.274	ND
91 Material Service Road, Des Plaines River	0.249	0.179	0.217	0.213	0.165	0.215	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.078	0.125	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-92: TOTAL CADMIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.002	0.000	ND	ND	ND	0.000	0.001
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.002	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.001	0.004	0.000	0.001	0.004	0.000	0.000	0.003
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.002	0.000	0.000	0.001
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.003
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.002
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.002
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	0.000	0.000	0.002	0.000	0.000	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.001	0.000	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.009
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
86 Burnham Avenue, Grand Calumet River	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.002
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.000	0.001	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.001	0.000	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Des Plaines River System											
90 Route 19, Poplar Creek	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.001	0.000	0.001	0.001	0.001	0.000	0.003
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
64 Lake Street, West Branch DuPage River	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001
79 Higgins Road, Salt Creek	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
80 Arlington Heights Road, Salt Creek	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.002
109 Brookfield Avenue, Salt Creek	0.001	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.001
77 Elmhurst Road, Higgins Creek	0.000	0.003	0.000	0.002	0.001	0.000	0.000	0.002	0.000	0.000	0.001
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.003	0.000	0.000	0.001
12 Lake-Cook Road, Buffalo Creek	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
13 Lake-Cook Road, Des Plaines River	0.001	0.000	0.000	0.002	0.001	0.000	0.000	0.000	0.001	0.000	0.001
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.001
20 Roosevelt Road, Des Plaines River	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
22 Ogden Avenue, Des Plaines River	0.001	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.001
23 Willow Springs Road, Des Plaines River	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
29 Stephen Street, Des Plaines River	0.001	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
91 Material Service Road, Des Plaines River	0.001	0.001	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-93: TOTAL COPPER MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.030	0.035	ND	ND	ND	0.020	0.024
106 Dundee Road, West Fork North Branch Chicago River	0.028	0.025	0.020	0.023	0.027	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.017	0.013	0.015	0.024	0.021	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.021	0.012	0.013	0.022	0.022	0.011	0.003	0.007	0.007	0.003	0.012
104 Glenview Road, North Branch Chicago River	0.016	0.013	0.013	0.020	0.018	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.017	0.012	0.011	0.019	0.020	0.011	0.004	0.007	0.005	0.006	0.013
105 Frontage Road, Skokie River	0.018	0.014	0.018	0.020	0.017	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.018	0.013	0.015	0.021	0.020	0.011	0.003	0.008	0.008	0.005	0.012
96 Albany Avenue, North Branch Chicago River	0.017	0.016	0.016	0.022	0.021	0.024	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.014	0.011	0.012	0.023	0.016	0.007	0.001	0.004	0.004	0.002	0.013
102 Oakton Street, North Shore Channel	0.013	0.012	0.014	0.021	0.016	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.017	0.012	0.015	0.024	0.018	0.012	0.003	0.004	0.004	0.005	0.007
101 Foster Avenue, North Shore Channel	0.016	0.014	0.013	0.023	0.014	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.016	0.013	0.015	0.023	0.019	0.014	0.002	0.005	0.003	0.005	0.007
73 Diversey Parkway, North Branch Chicago River	0.017	0.011	0.015	0.022	0.021	0.015	0.003	0.008	0.006	0.007	0.008
46 Grand Avenue, North Branch Chicago River	0.017	0.015	0.017	0.022	0.017	0.012	0.006	0.006	0.006	0.006	0.000
74 Lake Shore Drive, Chicago River	0.015	0.013	0.014	0.013	0.015	0.011	0.002	0.005	0.005	0.002	0.007
100 Wells Street, Chicago River	0.016	0.015	0.015	0.019	0.015	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.017	0.015	0.015	0.020	0.016	0.010	0.001	0.005	0.004	0.006	0.008
108 Loomis Street, South Branch Chicago River	0.018	0.018	0.016	0.020	0.017	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.015	0.014	0.016	0.017	0.015	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.018	0.015	0.017	ND	ND	0.008	0.002	0.005	0.006	0.004	0.011
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.021	0.027	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.019	0.015	0.015	0.020	0.020	0.012	0.002	0.004	0.007	0.009	0.008
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.013	0.012	0.013	0.016	0.014	0.012	0.001	0.004	0.003	0.008	0.006
42 Route 83, Chicago Sanitary & Ship Canal	0.015	0.016	0.014	0.017	0.017	0.009	0.001	0.004	0.004	0.008	0.006
48 Stephen Street, Chicago Sanitary & Ship Canal	0.015	0.020	0.015	0.017	0.015	0.011	0.001	0.003	0.003	0.006	0.006
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.027	0.049	0.110	0.051	0.032	0.023
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.016	0.013	0.014	0.020	0.016	0.009	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.013	0.010	0.011	0.015	0.015	0.009	0.007	0.008	0.005	0.003	0.015
50 Burnham Avenue, Wolf Lake	0.014	0.011	0.013	0.013	0.018	0.007	0.001	0.005	0.004	0.010	0.007
55 130th Street, Calumet River	0.013	0.013	0.012	0.015	0.017	0.008	0.001	0.006	0.005	0.002	0.008
86 Burnham Avenue, Grand Calumet River	0.038	0.016	0.017	0.020	0.022	0.023	0.013	0.018	0.013	0.020	0.030
56 Indiana Avenue, Little Calumet River	0.015	0.013	0.013	0.020	0.014	0.010	0.003	0.007	0.005	0.005	0.007
76 Halsted Street, Little Calumet River	0.015	0.010	0.010	0.016	0.017	0.010	0.000	0.004	0.003	0.010	0.007
52 Wentworth Avenue, Little Calumet River	0.015	0.015	0.012	0.019	0.019	0.016	0.004	0.009	0.009	0.008	0.012
54 Joe Orr Road, Thorn Creek	0.020	0.014	0.008	0.013	0.017	0.010	0.001	0.006	0.005	0.004	0.006
97 170th Street, Thorn Creek	0.017	0.016	0.014	0.016	0.018	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.019	0.014	0.010	0.017	0.021	0.013	0.003	0.008	0.008	0.002	0.006
58 Ashland Avenue, Calumet Sag Channel	0.020	0.011	0.011	0.017	0.017	0.011	0.001	0.006	0.005	0.003	0.008
59 Cicero Avenue, Calumet Sag Channel	0.014	0.011	0.011	0.016	0.018	0.008	0.002	0.008	0.005	0.004	0.005
43 Route 83, Calumet Sag Channel	0.014	0.012	0.013	0.018	0.019	0.009	0.001	0.008	0.008	0.004	0.007
Des Plaines River System											
90 Route 19, Poplar Creek	0.015	0.009	0.012	0.016	0.014	0.006	0.000	0.005	0.004	0.006	0.011
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.017	ND	0.019	0.007	0.002	0.005	0.011	0.009	0.020
89 Walnut Lane, West Branch DuPage River	0.021	0.018	0.018	0.023	0.020	0.011	0.006	0.008	0.010	0.011	0.015
64 Lake Street, West Branch DuPage River	0.022	0.016	0.019	0.021	0.019	0.008	0.002	0.010	0.008	0.011	0.013
79 Higgins Road, Salt Creek	0.017	0.011	0.014	0.021	0.014	0.008	0.000	0.003	0.005	0.005	0.010
80 Arlington Heights Road, Salt Creek	0.018	0.013	0.017	0.018	0.021	0.011	0.003	0.005	0.006	0.006	0.007
18 Devon Avenue, Salt Creek	0.021	0.012	0.016	0.019	0.016	0.011	0.004	0.004	0.007	0.007	0.008
24 Wolf Road, Salt Creek	0.020	0.013	0.017	0.020	0.018	0.011	0.004	0.005	0.006	0.012	0.009
109 Brookfield Avenue, Salt Creek	0.020	0.014	0.022	0.024	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.016	0.022	0.011	0.005	0.008	0.006	0.013	0.012
77 Elmhurst Road, Higgins Creek	0.016	0.017	0.018	0.019	0.017	0.009	0.003	0.007	0.005	0.011	0.007
78 Wille Road, Higgins Creek	0.017	0.012	0.014	0.018	0.016	0.011	0.000	0.013	0.004	0.007	0.007
12 Lake-Cook Road, Buffalo Creek	0.031	0.011	0.012	0.017	0.014	0.006	0.001	0.005	0.006	0.008	0.008
13 Lake-Cook Road, Des Plaines River	0.017	0.013	0.016	0.019	0.015	0.010	0.001	0.006	0.007	0.008	0.010
17 Oakton Steet, Des Plaines River	0.016	0.012	0.015	0.018	0.014	0.010	0.001	0.007	0.002	0.006	0.007
19 Belmont Avenue, Des Plaines River	0.019	0.014	0.016	0.021	0.017	0.012	0.001	0.008	0.005	0.007	0.008
20 Roosevelt Road, Des Plaines River	0.017	0.011	0.017	0.022	0.015	0.010	0.002	0.007	0.005	0.008	0.008
22 Ogden Avenue, Des Plaines River	0.020	0.012	0.017	0.020	0.019	0.012	0.001	0.006	0.009	0.008	0.010
23 Willow Springs Road, Des Plaines River	0.021	0.012	0.015	0.023	0.017	0.010	0.001	0.005	0.005	0.009	0.007
29 Stephen Street, Des Plaines River	0.019	0.011	0.016	0.022	0.017	0.011	0.002	0.005	0.004	0.011	0.009
91 Material Service Road, Des Plaines River	0.017	0.014	0.015	0.019	0.019	0.011	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.017	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-94: TOTAL CHROMIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.005	0.009	ND	ND	ND	0.000	0.018
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.001	0.003	0.006	0.005	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.007	0.006	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.006	0.004	0.001	0.001	0.005	0.000	0.001	0.011
104 Glenview Road, North Branch Chicago River	0.000	0.001	0.000	0.005	0.003	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.001	0.005	0.002	0.001	0.000	0.000	0.000	0.013
105 Frontage Road, Skokie River	0.000	0.001	0.002	0.003	0.001	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.001	0.007	0.003	0.000	0.000	0.000	0.000	0.001	0.012
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.004	0.001	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.002	0.000	0.000	0.008	0.003	0.000	0.001	0.000	0.000	0.000	0.010
102 Oakton Street, North Shore Channel	0.000	0.000	0.002	0.003	0.004	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.005	0.002	0.003	0.000	0.000	0.000	0.001	0.013
101 Foster Avenue, North Shore Channel	0.000	0.000	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.001	0.006	0.003	0.001	0.000	0.000	0.000	0.002	0.011
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.002	0.004	0.004	0.002	0.000	0.000	0.000	0.001	0.009
46 Grand Avenue, North Branch Chicago River	0.000	0.001	0.003	0.005	0.002	0.002	0.000	0.000	0.002	0.001	0.007
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.003	0.002	0.002	0.000	0.000	0.001	0.004	0.011
100 Wells Street, Chicago River	0.000	0.000	0.001	0.004	0.005	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.001	0.002	0.005	0.003	0.003	0.002	0.003	0.000	0.003	0.009
108 Loomis Street, South Branch Chicago River	0.000	0.001	0.002	0.005	0.003	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.002	0.008	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.003	ND	ND	0.002	0.002	0.002	0.001	0.003	0.011
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.005	0.004	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.003	0.006	0.003	0.005	0.001	0.000	0.000	0.003	0.009
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.003	0.004	0.005	0.006	0.001	0.001	0.000	0.004	0.008
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.003	0.004	0.005	0.002	0.007	0.001	0.000	0.001	0.007	0.012
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.002	0.004	0.004	0.005	0.006	0.001	0.000	0.000	0.004	0.009
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.006	0.003	0.002	0.002	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.002	0.003	0.007	0.004	0.002	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.002	0.002	0.003	0.002	0.002	0.000	0.002	0.005
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.001	0.004	0.002	0.001	0.000	0.000	0.000	0.002	0.006
55 130th Street, Calumet River	0.000	0.000	0.000	0.003	0.000	0.002	0.001	0.000	0.001	0.001	0.005
86 Burnham Avenue, Grand Calumet River	0.009	0.002	0.004	0.003	0.006	0.006	0.002	0.005	0.003	0.035	0.018
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.001	0.006	0.002	0.003	0.001	0.000	0.000	0.003	0.005
76 Halsted Street, Little Calumet River	0.000	0.001	0.001	0.001	0.004	0.003	0.001	0.000	0.000	0.000	0.005
52 Wentworth Avenue, Little Calumet River	0.001	0.001	0.001	0.007	0.003	0.003	0.001	0.000	0.000	0.003	0.006
54 Joe Orr Road, Thorn Creek	0.004	0.000	0.003	0.005	0.002	0.003	0.001	0.000	0.002	0.002	0.006
97 170th Street, Thorn Creek	0.001	0.002	0.003	0.005	0.008	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.002	0.002	0.002	0.007	0.003	0.004	0.001	0.000	0.000	0.001	0.005
58 Ashland Avenue, Calumet Sag Channel	0.000	0.001	0.002	0.006	0.003	0.003	0.001	0.004	0.000	0.002	0.004
59 Cicero Avenue, Calumet Sag Channel	0.000	0.002	0.003	0.005	0.005	0.004	0.002	0.000	0.000	0.005	0.006
43 Route 83, Calumet Sag Channel	0.000	0.000	0.004	0.005	0.004	0.004	0.002	0.000	0.003	0.004	0.008
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.001	0.003	0.005	0.002	0.000	0.000	0.002	0.000	0.015
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.009	0.001	0.002	0.003	0.001	0.002	0.016
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.001	0.002	0.004	0.001	0.000	0.000	0.002	0.000	0.012
64 Lake Street, West Branch DuPage River	0.000	0.000	0.001	0.003	0.005	0.001	0.000	0.001	0.001	0.000	0.011
79 Higgins Road, Salt Creek	0.001	0.000	0.003	0.009	0.005	0.001	0.000	0.000	0.000	0.001	0.014
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.003	0.005	0.001	0.001	0.002	0.000	0.000	0.009
18 Devon Avenue, Salt Creek	0.001	0.000	0.001	0.001	0.002	0.002	0.000	0.000	0.000	0.000	0.010
24 Wolf Road, Salt Creek	0.001	0.000	0.004	0.007	0.006	0.004	0.000	0.000	0.001	0.002	0.009
109 Brookfield Avenue, Salt Creek	0.003	0.003	0.003	0.007	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.000	0.006	0.003	0.001	0.000	0.000	0.001	0.009
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.003	0.004	0.001	0.002	0.000	0.003	0.001	0.001	0.009
78 Wille Road, Higgins Creek	0.000	0.001	0.002	0.004	0.004	0.003	0.000	0.004	0.001	0.003	0.013
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.002	0.010	0.002	0.001	0.000	0.000	0.000	0.001	0.011
13 Lake-Cook Road, Des Plaines River	0.001	0.000	0.001	0.001	0.003	0.001	0.000	0.000	0.001	0.001	0.008
17 Oakton Steet, Des Plaines River	0.000	0.000	0.003	0.004	0.005	0.003	0.000	0.001	0.000	0.000	0.011
19 Belmont Avenue, Des Plaines River	0.013	0.000	0.031	0.002	0.005	0.003	0.000	0.001	0.001	0.001	0.011
20 Roosevelt Road, Des Plaines River	0.004	0.000	0.018	0.004	0.005	0.003	0.001	0.000	0.000	0.001	0.009
22 Ogden Avenue, Des Plaines River	0.002	0.002	0.003	0.004	0.005	0.005	0.000	0.001	0.002	0.001	0.011
23 Willow Springs Road, Des Plaines River	0.005	0.001	0.004	0.002	0.005	0.003	0.000	0.000	0.001	0.001	0.010
29 Stephen Street, Des Plaines River	0.003	0.001	0.003	0.001	0.005	0.005	0.000	0.000	0.000	0.000	0.008
91 Material Service Road, Des Plaines River	0.002	0.001	0.003	0.004	0.005	0.002	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-95: TOTAL HEXAVALENT CHROMIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	3.500	0.000	2.000	0.000	0.000	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.400	0.500	0.375	0.000	0.000	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	1.300	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	1.500	0.167	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.909	0.000	0.556	0.000	0.000	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	1.250	0.000	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1.909	0.167	0.455	0.000	0.000	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	1.273	0.364	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	1.750	0.000	0.444	0.000	0.000	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	1.750	0.167	0.300	0.000	0.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	1.333	0.583	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	1.846	0.417	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.833	0.333	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	1.583	0.750	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	1.667	0.667	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.400	0.222	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.417	0.333	0.500	0.167	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.667	0.417	0.364	0.000	0.000	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.500	0.333	0.500	0.167	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.909	0.417	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.833	0.333	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	0.000	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.750	0.333	0.250	0.000	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.667	0.333	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.818	0.333	0.167	0.000	0.000	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.909	0.333	0.167	0.000	0.000	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.442	0.404	0.442	0.000	0.000	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.818	0.400	0.583	0.000	0.000	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	1.167	0.167	0.833	0.000	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	1.091	0.182	1.000	0.000	0.000	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1.700	0.444	0.700	0.000	0.000	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	1.000	0.444	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	1.583	0.000	0.545	0.000	0.000	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	1.364	0.000	1.200	0.000	0.000	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	2.500	0.000	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	1.636	0.000	1.200	0.000	0.000	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.545	0.200	0.300	0.000	0.000	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	1.500	0.167	0.583	0.000	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	1.583	0.167	1.273	0.000	0.000	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	1.273	0.000	1.273	0.000	0.000	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	1.455	1.091	0.700	0.000	0.000	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.000	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	1.250	1.091	0.364	0.000	0.000	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	1.583	1.167	0.750	0.000	0.000	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	1.778	1.091	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	2.250	1.000	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	1.667	1.167	0.333	0.000	0.000	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	2.333	0.636	0.583	0.000	0.000	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	1.917	2.364	0.900	0.000	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.000	0.000	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1.000	0.667	0.200	0.000	0.000	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	1.333	0.364	0.750	0.000	0.000	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	1.429	1.000	1.250	0.000	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.583	0.909	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	1.417	1.000	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	10.333	1.000	0.750	0.000	0.000	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	3.833	0.636	1.143	0.000	0.000	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	1.500	0.727	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	3.083	1.273	0.700	0.000	0.000	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	1.500	0.727	0.909	0.000	0.000	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	1.417	0.545	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	1.727	1.300	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-96: TOTAL IRON MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	1.795	3.350	ND	ND	ND	0.690	0.626
106 Dundee Road, West Fork North Branch Chicago River	1.173	1.846	1.601	0.913	1.349	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.864	0.698	0.823	1.037	0.953	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.817	0.917	0.922	0.934	1.443	0.634	0.734	0.526	0.710	0.786	0.782
104 Glenview Road, North Branch Chicago River	0.598	0.705	0.847	0.705	0.707	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.867	0.922	0.683	0.831	1.040	0.565	0.652	0.575	0.492	0.620	0.643
105 Frontage Road, Skokie River	0.476	0.856	0.534	0.580	0.528	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.697	0.703	0.744	0.889	0.957	0.502	0.521	0.488	0.431	0.435	0.546
96 Albany Avenue, North Branch Chicago River	0.646	0.722	0.701	0.889	0.666	0.320	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.329	0.297	0.256	0.355	0.357	0.268	0.183	0.180	0.181	0.198	0.249
102 Oakton Street, North Shore Channel	0.358	0.393	0.522	0.466	0.560	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.209	0.241	0.171	0.310	0.284	0.178	0.136	0.107	0.101	0.139	0.137
101 Foster Avenue, North Shore Channel	0.306	0.320	0.236	0.347	0.295	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.306	0.385	0.355	0.490	0.450	0.248	0.210	0.178	0.152	0.203	0.233
73 Diversey Parkway, North Branch Chicago River	0.319	0.384	0.509	0.560	0.538	0.305	0.273	0.248	0.208	0.268	0.261
46 Grand Avenue, North Branch Chicago River	0.386	0.637	0.466	0.594	0.531	0.328	0.283	0.223	0.231	0.236	0.290
74 Lake Shore Drive, Chicago River	0.127	0.136	0.158	0.199	0.219	0.192	0.102	0.098	0.133	0.137	0.149
100 Wells Street, Chicago River	0.171	0.180	0.222	0.248	0.347	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.326	0.394	0.389	0.439	0.550	0.386	0.238	0.199	0.165	0.222	0.250
108 Loomis Street, South Branch Chicago River	0.327	0.382	0.392	0.417	0.481	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.393	0.462	0.455	0.599	0.822	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.360	0.488	0.446	ND	ND	0.258	0.269	0.212	0.223	0.246	0.447
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.507	0.717	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.401	0.484	0.493	0.545	0.621	0.379	0.313	0.225	0.243	0.268	0.278
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.256	0.270	0.261	0.330	0.331	0.262	0.210	0.141	0.153	0.161	0.239
42 Route 83, Chicago Sanitary & Ship Canal	0.247	0.293	0.318	0.336	0.324	0.182	0.170	0.132	0.224	0.173	0.274
48 Stephen Street, Chicago Sanitary & Ship Canal	0.473	0.509	0.516	0.429	0.466	0.316	0.222	0.261	0.277	0.333	0.370
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.616	1.125	1.165	1.386	0.778	0.373
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.443	0.445	0.434	0.505	0.493	0.320	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.202	0.293	0.249	0.268	0.429	0.317	0.242	0.213	0.160	0.213	0.213
50 Burnham Avenue, Wolf Lake	0.148	0.100	0.110	0.134	0.203	0.123	0.118	0.134	0.081	0.114	0.115
55 130th Street, Calumet River	0.257	0.244	0.330	0.345	0.437	0.365	0.191	0.203	0.195	0.224	0.202
86 Burnham Avenue, Grand Calumet River	2.100	1.194	1.315	1.335	1.111	1.126	0.766	0.963	0.712	4.656	1.579
56 Indiana Avenue, Little Calumet River	0.684	0.576	0.791	1.014	0.633	0.470	0.395	0.334	0.412	0.551	0.564
76 Halsted Street, Little Calumet River	0.321	0.382	0.330	0.449	0.511	0.329	0.251	0.294	0.347	0.413	0.380
52 Wentworth Avenue, Little Calumet River	1.388	1.469	1.350	1.973	1.504	1.156	0.927	1.442	0.983	1.147	0.778
54 Joe Orr Road, Thorn Creek	2.309	0.681	1.481	0.445	0.594	0.433	0.262	0.447	0.368	0.223	0.266
97 170th Street, Thorn Creek	1.516	1.468	1.088	0.867	1.623	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	1.514	1.678	1.084	0.980	1.435	0.642	0.640	0.853	0.669	0.609	0.506
58 Ashland Avenue, Calumet Sag Channel	0.548	0.543	0.787	0.616	0.639	0.439	0.360	0.353	0.718	0.552	0.494
59 Cicero Avenue, Calumet Sag Channel	0.524	0.664	0.745	0.637	0.764	0.478	0.398	0.416	0.510	0.612	0.658
43 Route 83, Calumet Sag Channel	0.514	0.505	0.973	0.751	0.947	0.546	0.388	0.420	0.659	0.690	0.583
Des Plaines River System											
90 Route 19, Poplar Creek	1.031	0.619	0.982	0.846	0.840	0.611	0.627	0.508	0.893	0.931	0.645
63 Longmeadow Lane, West Branch DuPage River	ND	ND	1.353	ND	1.256	0.844	0.672	0.749	0.614	0.955	0.944
89 Walnut Lane, West Branch DuPage River	0.383	0.423	0.608	0.432	0.477	0.417	0.285	0.228	0.220	0.408	0.548
64 Lake Street, West Branch DuPage River	1.009	0.863	1.154	0.894	1.062	0.773	0.577	0.536	0.627	0.734	0.666
79 Higgins Road, Salt Creek	1.534	0.869	1.666	1.448	1.119	0.858	0.760	0.737	0.815	0.971	0.668
80 Arlington Heights Road, Salt Creek	0.344	0.420	0.345	0.343	0.511	0.350	0.375	0.220	0.250	0.229	0.213
18 Devon Avenue, Salt Creek	0.421	0.539	0.590	0.434	0.660	0.518	0.583	0.248	0.425	0.298	0.278
24 Wolf Road, Salt Creek	0.875	0.732	1.312	0.662	0.859	0.621	0.557	0.478	0.598	0.602	0.542
109 Brookfield Avenue, Salt Creek	0.903	0.701	1.580	0.605	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.583	1.204	0.695	0.514	0.457	0.473	0.500	0.439
77 Elmhurst Road, Higgins Creek	0.866	1.061	1.454	1.179	1.127	0.733	0.812	0.748	0.704	1.029	0.956
78 Wille Road, Higgins Creek	0.160	0.184	0.227	0.417	0.334	0.214	0.103	0.415	0.181	0.333	0.337
12 Lake-Cook Road, Buffalo Creek	1.080	0.731	1.516	1.066	0.949	1.027	0.839	0.629	0.599	0.786	0.516
13 Lake-Cook Road, Des Plaines River	0.892	0.757	0.964	0.829	0.992	0.678	0.586	0.537	0.589	0.583	0.431
17 Oakton Steet, Des Plaines River	0.722	0.726	1.499	0.632	1.024	0.770	0.577	0.586	0.688	0.504	0.541
19 Belmont Avenue, Des Plaines River	0.682	0.673	1.145	0.680	0.887	0.631	0.490	0.493	0.670	0.507	0.508
20 Roosevelt Road, Des Plaines River	0.766	0.688	1.292	0.749	0.760	0.632	0.514	0.463	0.648	0.483	0.460
22 Ogden Avenue, Des Plaines River	0.850	0.710	1.300	0.679	0.869	0.611	0.510	0.447	0.643	0.479	0.474
23 Willow Springs Road, Des Plaines River	0.727	0.702	1.068	0.611	1.007	0.652	0.557	0.577	0.596	0.550	0.507
29 Stephen Street, Des Plaines River	0.756	0.805	1.176	0.679	1.195	0.707	0.580	0.868	0.572	0.568	0.476
91 Material Service Road, Des Plaines River	0.790	0.810	1.213	0.754	1.216	0.669	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	1.425	1.342	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-97: TOTAL LEAD MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	0.000	0.009
106 Dundee Road, West Fork North Branch Chicago River	0.006	0.006	0.006	0.000	0.000	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.005	0.007	0.004	0.002	0.010	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.004	0.006	0.004	0.002	0.006	0.004	0.000	0.000	0.000	0.000	0.024
104 Glenview Road, North Branch Chicago River	0.003	0.006	0.007	0.002	0.002	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.003	0.008	0.004	0.002	0.001	0.004	0.000	0.000	0.000	0.000	0.009
105 Frontage Road, Skokie River	0.003	0.007	0.006	0.002	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.005	0.006	0.076	0.002	0.003	0.000	0.000	0.000	0.000	0.005	0.027
96 Albany Avenue, North Branch Chicago River	0.005	0.008	0.006	0.002	0.004	0.000	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.002	0.005	0.003	0.002	0.006	0.000	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.004	0.004	0.006	0.002	0.005	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.003	0.005	0.004	0.001	0.005	0.003	0.000	0.000	0.000	0.000	0.014
101 Foster Avenue, North Shore Channel	0.003	0.005	0.005	0.001	0.000	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.003	0.006	0.031	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.014
73 Diversey Parkway, North Branch Chicago River	0.004	0.006	0.125	0.001	0.027	0.003	0.000	0.000	0.000	0.000	0.015
46 Grand Avenue, North Branch Chicago River	0.005	0.008	0.105	0.002	0.006	0.005	0.000	0.000	0.000	0.000	0.023
74 Lake Shore Drive, Chicago River	0.004	0.006	0.003	0.001	0.000	0.003	0.000	0.000	0.000	0.000	0.015
100 Wells Street, Chicago River	0.004	0.005	0.004	0.001	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.006	0.007	0.006	0.002	0.000	0.003	0.000	0.000	0.004	0.000	0.005
108 Loomis Street, South Branch Chicago River	0.006	0.007	0.007	0.002	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.007	0.008	0.008	0.003	0.007	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.007	0.009	0.008	ND	ND	0.009	0.000	0.000	0.003	0.000	0.006
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.003	0.004	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.007	0.009	0.009	0.003	0.000	0.006	0.004	0.000	0.003	0.000	0.031
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.006	0.006	0.002	0.003	0.254	0.000	0.003	0.000	0.000	0.011
42 Route 83, Chicago Sanitary & Ship Canal	0.005	0.007	0.007	0.002	0.000	0.003	0.000	0.000	0.000	0.000	0.019
48 Stephen Street, Chicago Sanitary & Ship Canal	0.007	0.009	0.008	0.002	0.000	0.004	0.000	0.000	0.017	0.008	0.010
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.004	0.005	0.007	0.008	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.006	0.007	0.007	0.003	0.002	0.001	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.003	0.005	0.004	0.002	0.000	0.000	0.000	0.000	0.017	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.004	0.003	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.004	0.005	0.004	0.002	0.002	0.010	0.000	0.000	0.003	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.034	0.015	0.014	0.002	0.000	0.005	0.005	0.000	0.003	0.090	0.017
56 Indiana Avenue, Little Calumet River	0.006	0.006	0.007	0.003	0.003	0.003	0.000	0.000	0.009	0.000	0.005
76 Halsted Street, Little Calumet River	0.005	0.007	0.006	0.003	0.000	0.000	0.000	0.000	0.006	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.005	0.007	0.005	0.003	0.005	0.003	0.000	0.000	0.004	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.016	0.005	0.005	0.000	0.003	0.008	0.000	0.000	0.003	0.000	0.000
97 170th Street, Thorn Creek	0.007	0.010	0.006	0.003	0.000	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.008	0.011	0.007	0.002	0.000	0.000	0.000	0.000	0.005	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.010	0.007	0.006	0.004	0.003	0.003	0.000	0.000	0.003	0.559	0.000
59 Cicero Avenue, Calumet Sag Channel	0.005	0.009	0.007	0.003	0.001	0.000	0.007	0.000	0.014	0.008	0.000
43 Route 83, Calumet Sag Channel	0.008	0.007	0.009	0.004	0.068	0.006	0.000	0.000	0.008	0.000	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.003	0.008	0.004	0.002	0.000	0.000	0.000	0.553	0.000	0.000	0.015
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.006	ND	0.000	0.003	0.000	0.000	0.000	0.004	0.023
89 Walnut Lane, West Branch DuPage River	0.003	0.010	0.006	0.009	0.000	0.003	0.000	0.358	0.000	0.003	0.017
64 Lake Street, West Branch DuPage River	0.012	0.008	0.005	0.002	0.000	0.004	0.000	0.000	0.000	0.001	0.018
79 Higgins Road, Salt Creek	0.005	0.009	0.006	0.003	0.052	0.004	0.000	0.000	0.000	0.000	0.019
80 Arlington Heights Road, Salt Creek	0.003	0.007	0.004	0.001	0.000	0.008	0.000	0.000	0.000	0.002	0.011
18 Devon Avenue, Salt Creek	0.004	0.006	0.004	0.002	0.000	0.000	0.000	0.000	0.004	0.001	0.019
24 Wolf Road, Salt Creek	0.004	0.008	0.007	0.003	0.005	0.000	0.000	0.000	0.008	0.001	0.008
109 Brookfield Avenue, Salt Creek	0.005	0.009	0.008	0.005	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.000	0.005	0.004	0.000	0.000	0.000	0.000	0.018
77 Elmhurst Road, Higgins Creek	0.004	0.011	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.003	0.019
78 Wille Road, Higgins Creek	0.004	0.007	0.004	0.003	0.002	0.000	0.000	0.000	0.000	0.003	0.015
12 Lake-Cook Road, Buffalo Creek	0.005	0.008	0.005	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.004
13 Lake-Cook Road, Des Plaines River	0.003	0.022	0.005	0.003	0.027	0.004	0.000	0.000	0.009	0.006	0.009
17 Oakton Steet, Des Plaines River	0.004	0.007	0.006	0.003	0.002	0.004	0.000	0.000	0.000	0.001	0.018
19 Belmont Avenue, Des Plaines River	0.005	0.008	0.006	0.003	0.000	0.012	0.000	0.000	0.000	0.003	0.008
20 Roosevelt Road, Des Plaines River	0.005	0.008	0.005	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.014
22 Ogden Avenue, Des Plaines River	0.005	0.008	0.008	0.002	0.003	0.000	0.000	0.000	0.000	0.002	0.038
23 Willow Springs Road, Des Plaines River	0.005	0.012	0.007	0.003	0.000	0.004	0.000	0.000	0.005	0.095	0.018
29 Stephen Street, Des Plaines River	0.005	0.009	0.008	0.002	0.002	0.000	0.000	0.000	0.003	0.000	0.020
91 Material Service Road, Des Plaines River	0.005	0.009	0.008	0.002	0.007	0.003	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.004	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-98: TOTAL NICKEL MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.005	0.020	ND	ND	ND	0.010	0.013
106 Dundee Road, West Fork North Branch Chicago River	0.003	0.003	0.004	0.005	0.006	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.003	0.001	0.003	0.006	0.004	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.002	0.002	0.005	0.006	0.000	0.000	0.005	0.002	0.003	0.014
104 Glenview Road, North Branch Chicago River	0.002	0.003	0.001	0.004	0.003	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.001	0.002	0.005	0.006	0.000	0.000	0.003	0.003	0.000	0.020
105 Frontage Road, Skokie River	0.001	0.002	0.005	0.004	0.003	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.002	0.001	0.003	0.004	0.004	0.001	0.000	0.003	0.003	0.001	0.016
96 Albany Avenue, North Branch Chicago River	0.002	0.004	0.003	0.005	0.003	0.000	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.003	0.002	0.003	0.000	0.000	0.003	0.001	0.001	0.010
102 Oakton Street, North Shore Channel	0.002	0.001	0.003	0.005	0.004	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.002	0.002	0.005	0.004	0.006	0.004	0.000	0.005	0.008	0.001	0.009
101 Foster Avenue, North Shore Channel	0.003	0.002	0.005	0.006	0.007	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.003	0.003	0.005	0.005	0.007	0.007	0.000	0.005	0.005	0.002	0.013
73 Diversey Parkway, North Branch Chicago River	0.003	0.002	0.006	0.009	0.008	0.004	0.000	0.006	0.008	0.006	0.017
46 Grand Avenue, North Branch Chicago River	0.004	0.004	0.008	0.008	0.007	0.004	0.000	0.008	0.009	0.004	0.013
74 Lake Shore Drive, Chicago River	0.001	0.001	0.001	0.003	0.003	0.007	0.003	0.000	0.007	0.005	0.020
100 Wells Street, Chicago River	0.002	0.002	0.004	0.004	0.011	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.004	0.003	0.006	0.007	0.008	0.004	0.003	0.004	0.004	0.004	0.016
108 Loomis Street, South Branch Chicago River	0.004	0.003	0.006	0.007	0.004	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.004	0.003	0.005	0.006	0.005	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.004	0.003	0.007	ND	ND	0.003	0.000	0.005	0.005	0.002	0.013
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.006	0.006	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.004	0.003	0.007	0.006	0.005	0.005	0.001	0.003	0.003	0.003	0.012
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.006	0.005	0.005	0.008	0.005	0.003	0.000	0.003	0.004	0.006	0.014
42 Route 83, Chicago Sanitary & Ship Canal	0.006	0.007	0.008	0.009	0.006	0.005	0.003	0.004	0.006	0.005	0.020
48 Stephen Street, Chicago Sanitary & Ship Canal	0.006	0.006	0.007	0.009	0.006	0.005	0.000	0.005	0.006	0.003	0.018
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.003	0.001	0.001	0.001	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.006	0.005	0.006	0.008	0.005	0.002	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.002	0.003	0.003	0.002	0.004	0.003	0.001	0.006
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.003	0.002	0.001	0.003
55 130th Street, Calumet River	0.001	0.001	0.002	0.002	0.004	0.001	0.002	0.002	0.003	0.000	0.005
86 Burnham Avenue, Grand Calumet River	0.005	0.004	0.005	0.009	0.006	0.002	0.003	0.003	0.006	0.007	0.018
56 Indiana Avenue, Little Calumet River	0.002	0.002	0.003	0.006	0.002	0.003	0.002	0.004	0.007	0.001	0.005
76 Halsted Street, Little Calumet River	0.004	0.002	0.004	0.004	0.003	0.004	0.003	0.003	0.008	0.000	0.004
52 Wentworth Avenue, Little Calumet River	0.003	0.003	0.002	0.005	0.004	0.000	0.003	0.002	0.006	0.003	0.007
54 Joe Orr Road, Thorn Creek	0.004	0.001	0.003	0.005	0.002	0.002	0.002	0.002	0.007	0.002	0.008
97 170th Street, Thorn Creek	0.007	0.005	0.003	0.007	0.005	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.005	0.004	0.004	0.010	0.005	0.001	0.002	0.003	0.007	0.001	0.008
58 Ashland Avenue, Calumet Sag Channel	0.003	0.003	0.004	0.004	0.004	0.003	0.002	0.005	0.003	0.001	0.006
59 Cicero Avenue, Calumet Sag Channel	0.003	0.003	0.005	0.005	0.004	0.002	0.002	0.003	0.006	0.000	0.013
43 Route 83, Calumet Sag Channel	0.004	0.002	0.005	0.006	0.005	0.003	0.003	0.004	0.004	0.002	0.006
Des Plaines River System											
90 Route 19, Poplar Creek	0.002	0.000	0.001	0.003	0.002	0.000	0.000	0.004	0.008	0.001	0.014
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.002	ND	0.004	0.000	0.002	0.011	0.005	0.001	0.018
89 Walnut Lane, West Branch DuPage River	0.003	0.001	0.001	0.005	0.002	0.000	0.000	0.006	0.006	0.001	0.016
64 Lake Street, West Branch DuPage River	0.004	0.002	0.002	0.004	0.003	0.002	0.000	0.006	0.005	0.000	0.018
79 Higgins Road, Salt Creek	0.004	0.002	0.002	0.006	0.004	0.000	0.000	0.005	0.006	0.001	0.011
80 Arlington Heights Road, Salt Creek	0.003	0.002	0.002	0.005	0.003	0.000	0.000	0.006	0.007	0.001	0.014
18 Devon Avenue, Salt Creek	0.003	0.002	0.003	0.004	0.002	0.000	0.000	0.004	0.010	0.001	0.006
24 Wolf Road, Salt Creek	0.005	0.005	0.004	0.009	0.004	0.002	0.000	0.008	0.006	0.002	0.011
109 Brookfield Avenue, Salt Creek	0.006	0.005	0.004	0.011	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.003	0.009	0.002	0.000	0.008	0.006	0.003	0.018
77 Elmhurst Road, Higgins Creek	0.002	0.002	0.002	0.005	0.004	0.000	0.000	0.008	0.008	0.001	0.017
78 Wille Road, Higgins Creek	0.014	0.006	0.005	0.009	0.008	0.003	0.000	0.006	0.006	0.003	0.016
12 Lake-Cook Road, Buffalo Creek	0.003	0.002	0.002	0.006	0.003	0.000	0.000	0.005	0.009	0.002	0.017
13 Lake-Cook Road, Des Plaines River	0.005	0.003	0.005	0.005	0.003	0.000	0.000	0.006	0.008	0.001	0.016
17 Oakton Steet, Des Plaines River	0.004	0.002	0.004	0.005	0.003	0.000	0.000	0.004	0.003	0.001	0.010
19 Belmont Avenue, Des Plaines River	0.006	0.003	0.005	0.006	0.003	0.000	0.000	0.005	0.003	0.000	0.016
20 Roosevelt Road, Des Plaines River	0.006	0.003	0.004	0.007	0.003	0.002	0.000	0.003	0.005	0.002	0.018
22 Ogden Avenue, Des Plaines River	0.006	0.003	0.005	0.008	0.004	0.000	0.000	0.002	0.008	0.000	0.012
23 Willow Springs Road, Des Plaines River	0.006	0.003	0.004	0.007	0.004	0.002	0.000	0.003	0.005	0.000	0.011
29 Stephen Street, Des Plaines River	0.005	0.003	0.005	0.007	0.003	0.002	0.000	0.004	0.004	0.001	0.019
91 Material Service Road, Des Plaines River	0.005	0.004	0.005	0.007	0.004	0.001	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-99: TOTAL MANGANESE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.122	0.139	ND	ND	ND	0.088	0.077
106 Dundee Road, West Fork North Branch Chicago River	0.083	0.097	0.097	0.067	0.110	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.087	0.067	0.070	0.091	0.098	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.128	0.092	0.077	0.148	0.107	0.080	0.217	0.079	0.177	0.183	0.094
104 Glenview Road, North Branch Chicago River	0.080	0.060	0.062	0.060	0.078	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.124	0.137	0.081	0.096	0.131	0.100	0.162	0.115	0.123	0.163	0.082
105 Frontage Road, Skokie River	0.045	0.086	0.108	0.046	0.057	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.072	0.065	0.112	0.083	0.098	0.067	0.059	0.067	0.066	0.130	0.057
96 Albany Avenue, North Branch Chicago River	0.059	0.062	0.072	0.057	0.068	0.035	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.045	0.017	0.020	0.028	0.037	0.021	0.024	0.017	0.026	0.028	0.019
102 Oakton Street, North Shore Channel	0.021	0.025	0.031	0.026	0.036	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.021	0.019	0.016	0.034	0.038	0.029	0.018	0.015	0.031	0.033	0.019
101 Foster Avenue, North Shore Channel	0.021	0.023	0.019	0.027	0.020	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.026	0.027	0.030	0.035	0.047	0.042	0.048	0.029	0.028	0.034	0.024
73 Diversey Parkway, North Branch Chicago River	0.026	0.027	0.046	0.036	0.053	0.081	0.027	0.045	0.164	0.042	0.024
46 Grand Avenue, North Branch Chicago River	0.033	0.037	0.038	0.042	0.042	0.044	0.028	0.052	0.026	0.026	0.034
74 Lake Shore Drive, Chicago River	0.012	0.018	0.013	0.017	0.020	0.035	0.010	0.009	0.015	0.010	0.017
100 Wells Street, Chicago River	0.020	0.022	0.020	0.021	0.027	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.069	0.028	0.028	0.036	0.037	0.039	0.027	0.021	0.019	0.027	0.025
108 Loomis Street, South Branch Chicago River	0.036	0.028	0.027	0.035	0.050	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.038	0.034	0.032	0.048	0.062	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.031	0.029	0.035	ND	ND	0.038	0.028	0.024	0.024	0.023	0.034
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.041	0.070	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.029	0.029	0.032	0.040	0.045	0.047	0.027	0.022	0.034	0.033	0.029
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.019	0.019	0.017	0.036	0.030	0.046	0.022	0.019	0.018	0.062	0.024
42 Route 83, Chicago Sanitary & Ship Canal	0.021	0.022	0.029	0.039	0.029	0.028	0.025	0.013	0.024	0.025	0.048
48 Stephen Street, Chicago Sanitary & Ship Canal	0.039	0.042	0.039	0.043	0.050	0.049	0.033	0.026	0.040	0.045	0.038
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.049	0.083	0.066	0.093	0.078	0.035
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.037	0.047	0.037	0.053	0.045	0.074	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.016	0.053	0.020	0.022	0.030	0.024	0.029	0.028	0.014	0.042	0.082
50 Burnham Avenue, Wolf Lake	0.054	0.040	0.035	0.028	0.043	0.044	0.058	0.062	0.063	0.070	0.046
55 130th Street, Calumet River	0.033	0.030	0.039	0.031	0.046	0.037	0.031	0.038	0.037	0.082	0.035
86 Burnham Avenue, Grand Calumet River	0.093	0.096	0.158	0.098	0.093	0.090	0.058	0.044	0.052	0.159	0.118
56 Indiana Avenue, Little Calumet River	0.037	0.028	0.039	0.086	0.041	0.040	0.057	0.038	0.040	0.074	0.053
76 Halsted Street, Little Calumet River	0.037	0.036	0.041	0.053	0.068	0.058	0.056	0.045	0.046	0.070	0.078
52 Wentworth Avenue, Little Calumet River	0.115	0.138	0.124	0.134	0.145	0.138	0.130	0.149	0.109	0.196	0.104
54 Joe Orr Road, Thorn Creek	0.131	0.073	0.058	0.073	0.070	0.065	0.062	0.043	0.146	0.056	0.041
97 170th Street, Thorn Creek	0.095	0.111	0.080	0.102	0.100	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.123	0.128	0.109	0.104	0.126	0.093	0.100	0.098	0.089	0.089	0.082
58 Ashland Avenue, Calumet Sag Channel	0.052	0.048	0.055	0.066	0.071	0.069	0.078	0.053	0.048	0.121	0.096
59 Cicero Avenue, Calumet Sag Channel	0.050	0.071	0.078	0.073	0.078	0.064	0.065	0.058	0.060	0.104	0.080
43 Route 83, Calumet Sag Channel	0.065	0.059	0.094	0.063	0.076	0.063	0.061	0.053	0.064	0.077	0.066
Des Plaines River System											
90 Route 19, Poplar Creek	0.147	0.097	0.083	0.103	0.107	0.155	0.068	0.164	0.208	0.136	0.113
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.060	ND	0.151	0.118	0.073	0.174	0.108	0.132	0.128
89 Walnut Lane, West Branch DuPage River	0.044	0.044	0.043	0.074	0.074	0.105	0.038	0.080	0.133	0.053	0.065
64 Lake Street, West Branch DuPage River	0.087	0.071	0.076	0.069	0.092	0.065	0.061	0.068	0.111	0.090	0.067
79 Higgins Road, Salt Creek	0.138	0.124	0.096	0.134	0.124	0.092	0.091	0.092	0.252	0.119	0.093
80 Arlington Heights Road, Salt Creek	0.063	0.057	0.052	0.051	0.051	0.061	0.050	0.064	0.115	0.058	0.051
18 Devon Avenue, Salt Creek	0.053	0.052	0.054	0.052	0.055	0.085	0.069	0.050	0.153	0.061	0.048
24 Wolf Road, Salt Creek	0.059	0.055	0.069	0.066	0.077	0.087	0.065	0.083	0.064	0.087	0.065
109 Brookfield Avenue, Salt Creek	0.065	0.055	0.072	0.042	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.065	0.101	0.061	0.055	0.068	0.058	0.076	0.063
77 Elmhurst Road, Higgins Creek	0.106	0.125	0.115	0.120	0.163	0.133	0.112	0.136	0.111	0.140	0.135
78 Wille Road, Higgins Creek	0.023	0.025	0.033	0.048	0.038	0.064	0.022	0.093	0.043	0.063	0.038
12 Lake-Cook Road, Buffalo Creek	0.163	0.108	0.134	0.458	0.116	0.148	0.168	0.165	0.195	0.197	0.137
13 Lake-Cook Road, Des Plaines River	0.086	0.084	0.083	0.089	0.090	0.071	0.065	0.111	0.218	0.094	0.069
17 Oakton Steet, Des Plaines River	0.080	0.067	0.093	0.089	0.102	0.093	0.071	0.098	0.077	0.088	0.083
19 Belmont Avenue, Des Plaines River	0.079	0.061	0.076	0.079	0.090	0.069	0.059	0.096	0.074	0.094	0.080
20 Roosevelt Road, Des Plaines River	0.073	0.062	0.074	0.145	0.077	0.065	0.061	0.080	0.073	0.080	0.070
22 Ogden Avenue, Des Plaines River	0.068	0.058	0.077	0.066	0.075	0.060	0.056	0.068	0.072	0.072	0.091
23 Willow Springs Road, Des Plaines River	0.064	0.075	0.062	0.062	0.083	0.093	0.062	0.083	0.065	0.250	0.085
29 Stephen Street, Des Plaines River	0.066	0.059	0.066	0.060	0.086	0.081	0.064	0.078	0.072	0.078	0.073
91 Material Service Road, Des Plaines River	0.068	0.065	0.068	0.065	0.097	0.061	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.209	0.126	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-100: TOTAL MERCURY MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	0.000	0.033
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.179	0.000	0.028	0.000	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.039	0.080	0.016	0.045	0.013	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.013	0.121	0.029	0.015	0.007	0.000	0.019	0.044	0.030	0.125	0.030
104 Glenview Road, North Branch Chicago River	0.034	0.111	0.013	0.034	0.006	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.029	0.113	0.019	0.040	0.005	0.024	0.035	0.038	0.050	0.000	0.022
105 Frontage Road, Skokie River	0.062	0.160	0.021	0.030	0.010	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.034	0.125	0.012	0.031	0.000	0.022	0.037	0.040	0.036	0.000	0.030
96 Albany Avenue, North Branch Chicago River	0.064	0.028	0.016	0.023	0.013	0.000	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.016	0.000	0.010	0.038	0.006	0.000	0.012	0.028	0.040	0.000	0.000
102 Oakton Street, North Shore Channel	0.068	0.076	0.000	0.025	0.017	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.040	0.077	0.018	0.018	0.028	0.017	0.006	0.033	0.058	0.000	0.042
101 Foster Avenue, North Shore Channel	0.046	0.067	0.006	0.026	0.013	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.041	0.095	0.017	0.024	0.018	0.008	0.016	0.043	0.075	0.000	0.025
73 Diversey Parkway, North Branch Chicago River	0.022	0.016	0.010	0.035	0.013	0.059	0.036	0.043	0.092	0.000	0.033
46 Grand Avenue, North Branch Chicago River	0.018	0.039	0.041	0.046	0.000	0.028	0.021	0.043	0.895	0.008	0.086
74 Lake Shore Drive, Chicago River	0.000	0.122	0.044	0.020	0.000	0.015	0.025	0.044	0.009	0.036	0.000
100 Wells Street, Chicago River	0.030	0.061	0.033	0.013	0.006	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.011	0.021	0.058	0.031	0.000	0.029	0.028	0.033	0.009	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.017	0.034	0.040	0.018	0.019	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.020	0.053	0.018	0.018	0.039	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.007	0.021	0.033	ND	ND	0.011	0.017	0.031	0.008	0.000	0.022
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.018	0.014	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.029	0.049	0.038	0.011	0.003	0.028	0.022	0.043	0.067	0.000	0.008
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.022	0.021	0.015	0.016	0.026	0.018	0.034	0.017	0.025	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.010	0.087	0.023	0.007	0.005	0.015	0.018	0.033	0.050	0.000	0.025
48 Stephen Street, Chicago Sanitary & Ship Canal	0.016	0.093	0.031	0.008	0.000	0.005	0.006	0.026	0.017	0.033	0.008
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.007	0.021	0.000	0.008	0.004	0.017
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.017	0.079	0.045	0.026	0.013	0.009	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.110	0.013	0.018	0.004	0.013	0.008	0.030	0.033	0.020	0.050
50 Burnham Avenue, Wolf Lake	0.005	0.020	0.038	0.021	0.009	0.010	0.021	0.027	0.033	0.017	0.064
55 130th Street, Calumet River	0.017	0.051	0.009	0.031	0.014	0.000	0.035	0.033	0.067	0.030	0.030
86 Burnham Avenue, Grand Calumet River	0.148	0.068	0.079	0.055	0.032	0.000	0.051	0.128	0.083	1.518	0.133
56 Indiana Avenue, Little Calumet River	0.019	0.000	0.027	0.034	0.021	0.008	0.029	0.041	0.064	0.020	0.000
76 Halsted Street, Little Calumet River	0.018	0.029	0.007	0.047	0.003	0.005	0.038	0.033	0.375	0.000	0.036
52 Wentworth Avenue, Little Calumet River	0.036	0.017	0.027	0.034	0.024	0.015	0.016	0.033	0.050	0.044	0.022
54 Joe Orr Road, Thorn Creek	0.033	0.000	0.053	0.044	0.004	0.000	0.035	0.036	0.042	0.000	0.009
97 170th Street, Thorn Creek	0.031	0.025	0.034	0.018	0.032	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.044	0.052	0.025	0.041	0.020	0.000	0.040	0.042	0.050	0.011	0.010
58 Ashland Avenue, Calumet Sag Channel	0.010	0.032	0.010	0.009	0.008	0.014	0.014	0.014	0.933	0.008	0.020
59 Cicero Avenue, Calumet Sag Channel	0.019	0.050	0.007	0.021	0.013	0.016	0.013	0.035	0.092	0.000	0.064
43 Route 83, Calumet Sag Channel	0.023	0.017	0.007	0.028	0.018	0.008	0.016	0.040	0.083	0.000	0.018
Des Plaines River System											
90 Route 19, Poplar Creek	0.045	0.051	0.016	0.028	0.027	0.000	0.021	0.505	0.122	0.018	0.030
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.000	0.000	0.012	0.041	0.030	0.018	0.017
89 Walnut Lane, West Branch DuPage River	0.007	0.042	0.016	0.024	0.009	0.017	0.053	0.328	0.042	0.008	0.017
64 Lake Street, West Branch DuPage River	0.013	0.044	0.044	0.029	0.009	0.007	0.060	0.021	0.058	0.009	0.025
79 Higgins Road, Salt Creek	0.008	0.014	0.032	0.051	0.005	0.018	0.058	0.062	0.055	0.010	0.000
80 Arlington Heights Road, Salt Creek	0.023	0.025	0.041	0.030	0.009	0.000	0.057	0.067	0.050	0.008	0.025
18 Devon Avenue, Salt Creek	0.044	0.058	0.040	0.008	0.012	0.000	0.061	0.035	0.067	0.008	0.017
24 Wolf Road, Salt Creek	0.011	0.027	0.066	0.045	0.014	0.000	0.044	0.077	0.033	0.033	0.042
109 Brookfield Avenue, Salt Creek	0.000	0.075	0.035	0.023	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.000	0.009	0.000	0.062	0.019	0.027	0.017	0.017
77 Elmhurst Road, Higgins Creek	0.000	0.040	0.048	0.030	0.015	0.000	0.045	0.053	0.036	0.050	0.008
78 Wille Road, Higgins Creek	0.013	0.032	0.038	0.018	0.017	0.008	0.050	0.019	0.033	0.017	0.008
12 Lake-Cook Road, Buffalo Creek	0.016	0.023	0.029	0.039	0.010	0.000	0.068	0.045	0.055	0.008	0.025
13 Lake-Cook Road, Des Plaines River	0.014	0.035	0.021	0.023	0.016	0.000	0.056	0.058	0.045	0.000	0.050
17 Oakton Steet, Des Plaines River	0.017	0.025	0.075	0.028	0.019	0.000	0.079	0.036	0.018	0.033	0.009
19 Belmont Avenue, Des Plaines River	0.000	0.037	0.053	0.041	0.000	0.000	0.062	0.052	0.025	0.025	0.000
20 Roosevelt Road, Des Plaines River	0.013	0.032	0.114	0.038	0.011	0.000	0.064	0.051	0.025	0.025	0.000
22 Ogden Avenue, Des Plaines River	0.013	0.050	0.054	0.055	0.017	0.000	0.064	0.012	0.017	0.000	0.033
23 Willow Springs Road, Des Plaines River	0.013	0.016	0.037	0.090	0.033	0.000	0.095	0.025	0.055	0.055	0.000
29 Stephen Street, Des Plaines River	0.011	0.037	0.016	0.044	0.029	0.000	0.065	0.033	0.017	0.000	0.017
91 Material Service Road, Des Plaines River	0.021	0.017	0.015	0.033	0.016	0.002	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.031	0.039	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-101: TOTAL ZINC MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.070	0.079	ND	ND	ND	0.033	0.024
106 Dundee Road, West Fork North Branch Chicago River	0.039	0.052	0.045	0.031	0.091	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.028	0.032	0.028	0.046	0.047	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.019	0.021	0.022	0.022	0.056	0.020	0.027	0.005	0.019	0.013	0.006
104 Glenview Road, North Branch Chicago River	0.038	0.033	0.038	0.035	0.039	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.027	0.021	0.024	0.029	0.049	0.024	0.032	0.009	0.020	0.028	0.010
105 Frontage Road, Skokie River	0.035	0.042	0.047	0.043	0.038	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.031	0.034	0.046	0.042	0.040	0.036	0.058	0.008	0.025	0.035	0.012
96 Albany Avenue, North Branch Chicago River	0.030	0.032	0.036	0.038	0.041	0.038	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.019	0.020	0.025	0.028	0.023	0.015	0.007	0.001	0.009	0.012	0.004
102 Oakton Street, North Shore Channel	0.030	0.026	0.042	0.037	0.030	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.042	0.040	0.045	0.058	0.055	0.047	0.037	0.017	0.038	0.043	0.014
101 Foster Avenue, North Shore Channel	0.039	0.047	0.046	0.044	0.047	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.039	0.042	0.043	0.042	0.055	0.046	0.033	0.013	0.028	0.039	0.015
73 Diversey Parkway, North Branch Chicago River	0.037	0.036	0.058	0.045	0.056	0.062	0.043	0.020	0.057	0.053	0.013
46 Grand Avenue, North Branch Chicago River	0.049	0.051	0.064	0.049	0.049	0.049	0.035	0.015	0.034	0.028	0.023
74 Lake Shore Drive, Chicago River	0.029	0.023	0.024	0.023	0.039	0.031	0.011	0.008	0.025	0.006	0.006
100 Wells Street, Chicago River	0.030	0.028	0.030	0.028	0.044	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.043	0.046	0.042	0.077	0.061	0.043	0.028	0.011	0.024	0.027	0.016
108 Loomis Street, South Branch Chicago River	0.038	0.042	0.041	0.040	0.045	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.039	0.040	0.038	0.044	0.055	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.045	0.047	0.065	ND	ND	0.039	0.023	0.012	0.028	0.023	0.039
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.045	0.078	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.040	0.042	0.041	0.046	0.057	0.046	0.033	0.012	0.032	0.033	0.016
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.041	0.037	0.038	0.038	0.046	0.047	0.036	0.013	0.033	0.036	0.021
42 Route 83, Chicago Sanitary & Ship Canal	0.038	0.045	0.047	0.045	0.048	0.036	0.031	0.018	0.046	0.037	0.023
48 Stephen Street, Chicago Sanitary & Ship Canal	0.044	0.056	0.047	0.046	0.052	0.046	0.028	0.015	0.041	0.043	0.024
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.075	0.094	0.162	0.141	0.133	0.069
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.049	0.047	0.049	0.050	0.049	0.053	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.014	0.019	0.018	0.021	0.030	0.022	0.025	0.013	0.008	0.027	0.011
50 Burnham Avenue, Wolf Lake	0.015	0.016	0.019	0.013	0.026	0.015	0.013	0.008	0.007	0.016	0.003
55 130th Street, Calumet River	0.022	0.026	0.022	0.025	0.044	0.022	0.015	0.019	0.012	0.028	0.014
86 Burnham Avenue, Grand Calumet River	0.154	0.062	0.081	0.087	0.075	0.078	0.080	0.103	0.068	0.296	0.102
56 Indiana Avenue, Little Calumet River	0.030	0.032	0.034	0.051	0.034	0.040	0.032	0.028	0.025	0.031	0.018
76 Halsted Street, Little Calumet River	0.051	0.052	0.050	0.065	0.066	0.047	0.027	0.034	0.036	0.133	0.056
52 Wentworth Avenue, Little Calumet River	0.035	0.047	0.036	0.064	0.046	0.045	0.028	0.023	0.031	0.054	0.021
54 Joe Orr Road, Thorn Creek	0.103	0.059	0.040	0.054	0.065	0.060	0.041	0.032	0.054	0.042	0.025
97 170th Street, Thorn Creek	0.046	0.060	0.048	0.054	0.050	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.059	0.052	0.050	0.041	0.052	0.060	0.031	0.063	0.032	0.026	0.018
58 Ashland Avenue, Calumet Sag Channel	0.069	0.060	0.055	0.055	0.066	0.054	0.030	0.028	0.032	0.095	0.063
59 Cicero Avenue, Calumet Sag Channel	0.044	0.055	0.049	0.053	0.050	0.044	0.036	0.034	0.038	0.054	0.046
43 Route 83, Calumet Sag Channel	0.055	0.046	0.055	0.051	0.064	0.062	0.035	0.042	0.064	0.057	0.030
Des Plaines River System											
90 Route 19, Poplar Creek	0.035	0.017	0.033	0.027	0.024	0.012	0.015	0.015	0.037	0.021	0.019
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.032	ND	0.041	0.022	0.036	0.023	0.035	0.040	0.043
89 Walnut Lane, West Branch DuPage River	0.051	0.062	0.053	0.069	0.061	0.047	0.042	0.059	0.042	0.038	0.058
64 Lake Street, West Branch DuPage River	0.051	0.048	0.051	0.045	0.066	0.037	0.029	0.039	0.040	0.053	0.038
79 Higgins Road, Salt Creek	0.028	0.022	0.029	0.023	0.027	0.018	0.020	0.006	0.027	0.026	0.020
80 Arlington Heights Road, Salt Creek	0.039	0.078	0.036	0.031	0.039	0.034	0.027	0.016	0.031	0.019	0.022
18 Devon Avenue, Salt Creek	0.042	0.034	0.036	0.035	0.035	0.034	0.033	0.014	0.028	0.017	0.023
24 Wolf Road, Salt Creek	0.049	0.050	0.051	0.061	0.054	0.143	0.052	0.045	0.031	0.032	0.032
109 Brookfield Avenue, Salt Creek	0.050	0.040	0.049	0.045	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.049	0.059	0.038	0.041	0.029	0.026	0.030	0.031
77 Elmhurst Road, Higgins Creek	0.041	0.053	0.050	0.040	0.041	0.032	0.025	0.029	0.015	0.038	0.032
78 Wille Road, Higgins Creek	0.076	0.066	0.066	0.075	0.062	0.067	0.045	0.062	0.043	0.045	0.050
12 Lake-Cook Road, Buffalo Creek	0.034	0.019	0.032	0.032	0.035	0.020	0.023	0.011	0.026	0.012	0.020
13 Lake-Cook Road, Des Plaines River	0.036	0.034	0.043	0.039	0.036	0.030	0.023	0.021	0.063	0.028	0.022
17 Oakton Steet, Des Plaines River	0.037	0.032	0.048	0.038	0.037	0.033	0.025	0.024	0.014	0.023	0.029
19 Belmont Avenue, Des Plaines River	0.054	0.040	0.060	0.044	0.041	0.030	0.025	0.031	0.023	0.023	0.030
20 Roosevelt Road, Des Plaines River	0.046	0.037	0.059	0.047	0.038	0.029	0.033	0.023	0.028	0.025	0.033
22 Ogden Avenue, Des Plaines River	0.046	0.036	0.055	0.043	0.050	0.047	0.040	0.025	0.033	0.031	0.033
23 Willow Springs Road, Des Plaines River	0.043	0.037	0.045	0.037	0.048	0.056	0.035	0.033	0.029	0.032	0.025
29 Stephen Street, Des Plaines River	0.042	0.035	0.048	0.041	0.047	0.043	0.031	0.026	0.031	0.030	0.040
91 Material Service Road, Des Plaines River	0.040	0.039	0.052	0.037	0.049	0.046	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.035	0.031	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-102: TOTAL SELENIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.000	0.000	ND	ND	ND	0.000	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.007	0.010	0.003	0.010	0.000	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.006	0.015	0.003	0.007	0.006	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.005	0.014	0.005	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.014
104 Glenview Road, North Branch Chicago River	0.004	0.011	0.002	0.003	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.005	0.012	0.005	0.009	0.002	0.000	0.000	0.000	0.000	0.000	0.021
105 Frontage Road, Skokie River	0.006	0.012	0.006	0.002	0.002	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.006	0.012	0.008	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.013
96 Albany Avenue, North Branch Chicago River	0.004	0.009	0.006	0.006	0.004	0.000	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.007	0.008	0.003	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.004	0.011	0.004	0.002	0.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.008	0.010	0.008	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.009
101 Foster Avenue, North Shore Channel	0.006	0.010	0.006	0.013	0.004	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.007	0.011	0.006	0.017	0.007	0.000	0.000	0.000	0.000	0.008	0.008
73 Diversey Parkway, North Branch Chicago River	0.005	0.010	0.006	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.009	0.010	0.007	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.016
74 Lake Shore Drive, Chicago River	0.006	0.009	0.005	0.009	0.003	0.000	0.000	0.000	0.024	0.000	0.024
100 Wells Street, Chicago River	0.005	0.008	0.004	0.010	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.007	0.009	0.004	0.010	0.003	0.000	0.000	0.000	0.019	0.000	0.007
108 Loomis Street, South Branch Chicago River	0.008	0.007	0.004	0.010	0.003	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.006	0.009	0.005	0.010	0.002	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.008	0.008	0.005	ND	ND	0.000	0.000	0.000	0.000	0.000	0.017
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.008	0.007	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.010	0.008	0.004	0.010	0.007	0.000	0.000	0.000	0.000	0.000	0.008
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.008	0.010	0.004	0.006	0.004	0.000	0.000	0.000	0.000	0.000	0.010
42 Route 83, Chicago Sanitary & Ship Canal	0.007	0.008	0.004	0.008	0.005	0.000	0.000	0.000	0.000	0.000	0.008
48 Stephen Street, Chicago Sanitary & Ship Canal	0.007	0.008	0.005	0.009	0.007	0.000	0.000	0.000	0.000	0.000	0.009
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.004	0.000	0.000	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.007	0.011	0.005	0.007	0.009	0.001	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.004	0.008	0.005	0.005	0.003	0.000	0.000	0.000	0.000	0.000	0.007
50 Burnham Avenue, Wolf Lake	0.004	0.007	0.003	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.005	0.011	0.003	0.008	0.004	0.000	0.000	0.000	0.000	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.005	0.015	0.004	0.009	0.006	0.000	0.000	0.000	0.000	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.005	0.008	0.003	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.006	0.011	0.007	0.006	0.008	0.017	0.000	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.004	0.012	0.003	0.012	0.008	0.000	0.000	0.000	0.017	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.005	0.006	0.009	0.009	0.003	0.000	0.000	0.000	0.000	0.000	0.007
97 170th Street, Thorn Creek	0.005	0.008	0.005	0.008	0.004	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.007	0.012	0.004	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.005	0.010	0.006	0.012	0.003	0.000	0.000	0.000	0.000	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	0.005	0.013	0.003	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.009
43 Route 83, Calumet Sag Channel	0.005	0.010	0.004	0.011	0.002	0.000	0.000	0.000	0.000	0.000	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.008	0.013	0.016	0.010	0.004	0.000	0.000	0.000	0.000	0.000	0.013
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.005	0.000	0.000	0.000	0.003	0.002	0.013
89 Walnut Lane, West Branch DuPage River	0.008	0.012	0.005	0.010	0.007	0.000	0.000	0.000	0.000	0.000	0.000
64 Lake Street, West Branch DuPage River	0.008	0.013	0.005	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.007	0.013	0.001	0.003	0.011	0.000	0.000	0.000	0.018	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.009	0.010	0.003	0.016	0.010	0.000	0.000	0.000	0.000	0.000	0.007
18 Devon Avenue, Salt Creek	0.008	0.011	0.005	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.007
24 Wolf Road, Salt Creek	0.009	0.012	0.003	0.003	0.012	0.000	0.000	0.000	0.000	0.000	0.024
109 Brookfield Avenue, Salt Creek	0.007	0.011	0.003	0.004	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.020	0.007	0.000	0.000	0.000	0.000	0.001	0.020
77 Elmhurst Road, Higgins Creek	0.010	0.014	0.005	0.008	0.008	0.000	0.000	0.000	0.000	0.003	0.023
78 Wille Road, Higgins Creek	0.008	0.011	0.006	0.010	0.007	0.000	0.000	0.000	0.017	0.000	0.007
12 Lake-Cook Road, Buffalo Creek	0.007	0.016	0.001	0.007	0.010	0.020	0.000	0.000	0.000	0.004	0.000
13 Lake-Cook Road, Des Plaines River	0.007	0.014	0.006	0.007	0.009	0.000	0.000	0.000	0.000	0.001	0.000
17 Oakton Steet, Des Plaines River	0.006	0.011	0.004	0.010	0.003	0.000	0.000	0.000	0.000	0.000	0.011
19 Belmont Avenue, Des Plaines River	0.007	0.010	0.004	0.008	0.008	0.000	0.000	0.000	0.000	0.003	0.000
20 Roosevelt Road, Des Plaines River	0.007	0.013	0.002	0.006	0.007	0.000	0.000	0.000	0.000	0.002	0.000
22 Ogden Avenue, Des Plaines River	0.010	0.011	0.007	0.017	0.008	0.000	0.000	0.000	0.000	0.001	0.007
23 Willow Springs Road, Des Plaines River	0.008	0.010	0.004	0.006	0.005	0.000	0.000	0.000	0.000	0.004	0.000
29 Stephen Street, Des Plaines River	0.008	0.011	0.003	0.003	0.006	0.000	0.000	0.000	0.000	0.000	0.017
91 Material Service Road, Des Plaines River	0.010	0.013	0.005	0.003	0.005	0.005	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.009	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-103: SOLUBLE CALCIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	65.7	81.4	53.7	73.3	70.3	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	74.0	69.0	66.0	66.2	66.1	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	59.4	62.4	62.0	65.9	65.6	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	55.5	62.9	65.7	63.7	63.0	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	64.0	70.5	66.4	69.8	73.8	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	55.7	61.7	56.8	62.0	61.8	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	61.6	65.7	61.4	63.1	61.1	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	63.7	64.1	62.4	64.7	63.3	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	32.8	36.4	39.0	39.5	34.7	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	42.7	44.4	46.2	47.4	39.7	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	46.8	54.6	51.1	54.8	52.7	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	47.4	54.7	52.2	54.4	53.5	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	49.6	57.6	53.8	55.8	55.6	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	49.1	58.1	52.7	55.1	56.4	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	52.7	57.5	54.4	55.1	56.5	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	37.9	40.1	39.1	40.2	41.4	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	41.8	43.5	46.2	43.9	46.4	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	49.0	50.2	53.0	53.3	48.9	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	51.2	50.4	51.5	52.9	48.6	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	48.5	50.7	49.8	50.9	48.6	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	49.8	50.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	53.0	47.9	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	51.1	51.6	49.9	52.5	48.9	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	51.4	53.5	52.0	52.4	50.7	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	53.6	54.7	55.2	54.1	51.6	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	56.1	59.0	57.7	55.8	56.7	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	54.9	56.8	55.7	56.4	57.0	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	34.4	35.1	35.8	36.4	35.4	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	34.8	35.1	31.8	30.4	28.4	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	40.9	40.5	41.1	42.4	43.0	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	64.3	77.0	83.9	75.5	69.2	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	44.7	45.7	47.4	51.7	48.5	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	60.7	60.4	59.3	60.1	63.1	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	70.9	82.2	90.7	87.2	70.1	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	66.9	77.3	60.7	79.1	74.1	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	78.0	81.3	77.4	85.8	74.7	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	68.9	74.3	82.1	80.2	67.7	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	63.2	61.9	62.8	63.4	62.9	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	61.6	62.8	61.7	62.3	62.6	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	60.7	59.9	61.1	60.8	64.0	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	60.5	70.9	60.5	72.1	66.9	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	53.2	ND	84.6	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	54.8	58.7	53.0	58.2	58.8	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	56.7	63.0	52.7	60.3	62.1	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	60.1	69.8	53.0	59.0	72.1	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	62.7	61.9	56.7	63.8	60.0	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	61.9	61.9	57.2	63.5	61.8	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	59.7	66.4	56.9	69.6	66.2	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	58.2	66.2	55.1	55.4	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	84.9	66.1	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	52.2	70.0	46.3	57.1	64.0	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	64.0	67.1	61.2	70.5	76.1	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	79.9	70.7	61.3	76.2	73.3	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	63.4	66.9	62.0	70.2	68.8	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	62.6	68.1	59.4	68.7	69.1	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	62.5	67.8	59.3	68.5	67.8	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	60.7	67.6	54.0	69.8	68.1	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	58.0	65.6	64.9	69.2	66.2	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	59.2	66.9	56.2	66.9	66.6	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	62.3	67.1	60.3	70.4	67.3	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	61.8	67.1	62.2	70.4	64.6	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	72.6	79.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-104: SOLUBLE MAGNESIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	27.3	33.3	21.6	31.8	34.0	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	29.9	26.5	26.0	27.8	30.8	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	30.8	28.1	27.6	30.6	30.8	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	25.4	26.5	28.0	27.8	29.4	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	30.2	30.0	27.9	31.0	31.5	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	25.0	26.1	23.9	27.2	28.8	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	27.2	26.9	24.8	27.0	27.2	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	27.7	26.4	25.7	27.3	28.8	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	11.3	12.1	13.4	13.8	11.3	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	15.2	15.0	15.6	16.4	14.6	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	16.8	19.1	18.2	19.9	19.8	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	16.9	19.4	18.5	19.7	20.1	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	18.2	20.9	19.4	20.9	21.7	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	17.8	21.0	18.8	20.4	22.0	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	19.5	20.5	19.4	20.3	21.9	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	13.4	14.1	13.1	13.7	14.3	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	14.7	15.3	16.0	15.5	17.1	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	17.8	17.9	19.1	19.8	18.4	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	18.9	18.0	18.1	19.7	17.9	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	17.4	18.0	17.5	18.5	17.9	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	18.3	18.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	19.8	18.1	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	18.8	18.5	17.3	19.6	18.3	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	18.9	19.1	18.1	19.3	19.2	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	19.8	19.7	19.5	20.0	19.8	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	21.0	21.4	20.4	20.8	21.7	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	20.4	20.6	20.1	20.9	22.3	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	11.5	11.6	11.9	11.8	11.4	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	13.1	13.0	12.2	12.6	11.2	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	14.2	13.9	13.7	14.5	15.0	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	43.0	50.1	62.4	64.5	49.4	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	16.7	17.2	17.4	21.2	19.1	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	21.7	21.1	20.1	21.5	23.4	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	28.6	32.1	35.3	35.5	29.5	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	30.2	32.5	24.8	35.9	35.2	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	35.0	35.2	33.5	42.6	36.5	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	29.1	30.1	33.3	34.7	30.7	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	23.2	22.3	22.8	24.2	23.9	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	22.7	23.1	22.2	23.3	24.0	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	22.7	22.1	22.2	23.3	24.9	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	28.2	32.3	26.4	32.5	32.3	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	19.4	ND	34.8	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	20.9	21.8	18.9	22.2	23.7	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	21.8	23.3	18.9	23.0	24.5	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	27.6	29.4	21.2	27.4	34.0	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	25.0	23.6	21.8	25.5	24.5	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	24.6	23.6	21.4	25.1	25.3	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	25.3	26.9	21.9	28.6	29.1	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	24.6	26.8	21.4	22.9	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	33.6	28.7	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	17.8	25.4	14.3	20.1	26.3	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	24.3	24.7	21.7	26.1	30.4	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	37.9	31.3	27.5	36.1	34.8	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	28.9	30.1	27.1	32.3	32.5	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	28.6	30.7	25.6	31.4	33.0	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	27.7	30.0	23.8	30.2	31.4	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	27.2	30.0	22.3	30.9	31.8	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	25.6	28.5	25.3	29.9	30.2	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	26.4	29.3	22.9	29.5	30.7	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	27.6	29.2	24.6	30.2	30.5	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	27.7	29.3	25.5	30.8	29.3	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	26.7	29.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-105: SOLUBLE SILVER MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.001	0.000	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.001	ND	0.000	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.002	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.000	0.000	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-106: SOLUBLE ARSENIC MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.002	0.004	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.001	0.004	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.003	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.002	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.004	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.002	0.003	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.003	0.003	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.006	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.003	0.004	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.002	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.001	0.005	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.002	0.000	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.004	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.003	0.003	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.004	0.002	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.004	0.001	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.001	0.000	0.000	0.004	0.002	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.005	0.002	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.003	0.004	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.001	0.000	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.000	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.004	0.002	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.001	0.002	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.003	0.005	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.004	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	0.000	0.000	0.002	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.001	0.002	0.006	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.001	0.003	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.005	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.001	0.003	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-107: SOLUBLE BARIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.043	0.054	0.034	0.044	0.053	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.046	0.042	0.043	0.040	0.040	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.034	0.034	0.037	0.036	0.040	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.026	0.028	0.033	0.027	0.030	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.035	0.040	0.039	0.039	0.040	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.025	0.025	0.024	0.025	0.029	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.032	0.033	0.032	0.030	0.033	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.033	0.032	0.032	0.032	0.033	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.019	0.020	0.021	0.022	0.021	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.021	0.020	0.021	0.019	0.021	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.018	0.019	0.017	0.019	0.019	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.018	0.019	0.018	0.018	0.018	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.020	0.021	0.020	0.021	0.021	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.019	0.021	0.019	0.020	0.022	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.020	0.020	0.019	0.019	0.021	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.021	0.020	0.021	0.021	0.021	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.020	0.020	0.020	0.021	0.022	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.020	0.019	0.017	0.020	0.021	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.021	0.019	0.019	0.020	0.021	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.020	0.018	0.017	0.020	0.023	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.020	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.020	0.020	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.019	0.017	0.020	0.020	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.016	0.016	0.015	0.017	0.017	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.016	0.016	0.015	0.016	0.017	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.017	0.017	0.017	0.017	0.019	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.017	0.018	0.017	0.018	0.019	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.020	0.020	0.019	0.021	0.022	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.030	0.029	0.025	0.024	0.025	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.027	0.027	0.024	0.029	0.031	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.016	0.016	0.018	0.017	0.017	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.025	0.026	0.023	0.028	0.028	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.018	0.018	0.016	0.018	0.022	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.028	0.033	0.034	0.032	0.031	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.026	0.030	0.024	0.026	0.024	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.032	0.034	0.027	0.029	0.028	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.029	0.032	0.032	0.030	0.028	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.020	0.020	0.018	0.020	0.021	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.019	0.021	0.019	0.019	0.021	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.019	0.021	0.017	0.020	0.022	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.095	0.091	0.071	0.061	0.055	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.035	ND	0.058	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.022	0.022	0.024	0.024	0.024	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.026	0.026	0.025	0.028	0.029	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.041	0.045	0.036	0.035	0.048	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.028	0.024	0.027	0.024	0.025	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.027	0.024	0.026	0.024	0.027	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.025	0.028	0.024	0.028	0.031	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.026	0.029	0.025	0.022	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.037	0.032	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.049	0.059	0.040	0.048	0.056	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.018	0.019	0.018	0.022	0.024	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.047	0.039	0.034	0.044	0.045	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.031	0.031	0.031	0.034	0.033	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.033	0.033	0.032	0.035	0.035	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.031	0.032	0.027	0.033	0.033	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.031	0.033	0.027	0.034	0.034	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.028	0.031	0.027	0.032	0.033	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.029	0.031	0.027	0.031	0.033	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.028	0.031	0.028	0.032	0.032	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.027	0.030	0.028	0.031	0.031	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.044	0.046	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-108: SOLUBLE BORON MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.176	0.195	0.132	0.118	0.158	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.178	0.130	0.122	0.139	0.139	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.163	0.162	0.098	0.101	0.093	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.170	0.146	0.130	0.148	0.143	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.151	0.123	0.115	0.103	0.098	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.175	0.161	0.174	0.167	0.148	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.174	0.143	0.159	0.151	0.111	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.177	0.141	0.150	0.148	0.129	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.030	0.032	0.044	0.030	0.023	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.085	0.071	0.081	0.104	0.060	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.168	0.158	0.173	0.169	0.196	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.164	0.159	0.157	0.158	0.186	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.155	0.147	0.148	0.144	0.169	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.150	0.148	0.155	0.141	0.160	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.161	0.142	0.150	0.146	0.168	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.053	0.060	0.050	0.044	0.064	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.073	0.082	0.096	0.068	0.081	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.126	0.130	0.130	0.125	0.117	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.126	0.125	0.118	0.123	0.119	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.128	0.125	0.130	0.121	0.121	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.126	0.129	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.123	0.115	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.126	0.126	0.132	0.130	0.119	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.165	0.187	0.176	0.169	0.163	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.207	0.236	0.206	0.218	0.189	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.201	0.199	0.202	0.211	0.205	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.209	0.185	0.186	0.185	0.187	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.036	0.030	0.028	0.029	0.037	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.142	0.131	0.082	0.088	0.097	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.109	0.094	0.065	0.108	0.124	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.271	0.403	0.375	0.358	0.327	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.111	0.109	0.113	0.145	0.143	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.193	0.170	0.177	0.186	0.194	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.216	0.220	0.256	0.296	0.185	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.252	0.288	0.243	0.327	0.324	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.235	0.242	0.230	0.290	0.228	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.222	0.196	0.254	0.247	0.198	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.199	0.173	0.181	0.208	0.203	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.189	0.177	0.184	0.188	0.194	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.195	0.165	0.156	0.172	0.195	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.061	0.049	0.046	0.041	0.047	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.039	ND	0.068	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.267	0.245	0.231	0.262	0.296	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.222	0.209	0.204	0.203	0.222	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.092	0.081	0.068	0.077	0.090	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.192	0.179	0.171	0.185	0.217	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.198	0.172	0.164	0.174	0.208	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.227	0.175	0.160	0.198	0.182	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.254	0.178	0.158	0.227	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.159	0.182	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.074	0.077	0.055	0.057	0.103	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.341	0.284	0.256	0.306	0.384	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.101	0.073	0.066	0.085	0.086	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.211	0.168	0.179	0.162	0.159	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.204	0.158	0.165	0.152	0.151	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.225	0.168	0.169	0.178	0.169	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.230	0.165	0.184	0.189	0.164	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.229	0.162	0.182	0.191	0.161	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.234	0.165	0.165	0.203	0.161	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.235	0.161	0.184	0.182	0.154	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.241	0.161	0.195	0.193	0.155	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.074	0.110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-109: SOLUBLE CADMIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.001	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.001	0.001	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.001	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-110: SOLUBLE COPPER MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.003	0.009	0.005	0.010	0.010	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.002	0.002	0.007	0.007	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.001	0.001	0.007	0.004	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.001	0.002	0.001	0.006	0.004	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.002	0.001	0.007	0.005	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.002	0.002	0.001	0.008	0.003	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.002	0.001	0.006	0.004	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.001	0.002	0.001	0.006	0.004	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.001	0.006	0.003	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.001	0.001	0.001	0.004	0.002	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.001	0.001	0.006	0.004	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.001	0.001	0.003	0.003	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.001	0.001	0.006	0.002	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.001	0.000	0.005	0.003	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.001	0.001	0.006	0.002	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.001	0.003	0.002	0.004	0.003	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.002	0.002	0.001	0.004	0.003	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.002	0.002	0.004	0.004	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.002	0.002	0.002	0.005	0.003	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.001	0.001	0.006	0.004	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.005	0.005	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.002	0.002	0.005	0.005	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.001	0.003	0.004	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.004	0.003	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.005	0.004	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.001	0.001	0.005	0.003	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.006	0.001	0.003	0.003	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.004	0.002	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.001	0.000	0.003	0.003	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.001	0.000	0.006	0.003	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.001	0.000	0.005	0.003	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.001	0.001	0.002	0.004	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.001	0.000	0.004	0.003	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.001	0.001	0.004	0.002	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.001	0.000	0.004	0.003	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.001	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.001	0.004	0.003	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.004	ND	0.002	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.004	0.005	0.004	0.010	0.008	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.003	0.003	0.003	0.008	0.006	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.003	0.004	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.002	0.003	0.002	0.009	0.008	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.003	0.003	0.002	0.007	0.005	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.003	0.003	0.003	0.008	0.005	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.002	0.003	0.003	0.008	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.010	0.006	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.002	0.003	0.007	0.003	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.002	0.002	0.002	0.006	0.005	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	0.001	0.004	0.003	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.002	0.002	0.006	0.005	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.001	0.002	0.001	0.005	0.004	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.001	0.002	0.002	0.007	0.004	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.001	0.007	0.004	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.002	0.002	0.002	0.006	0.006	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.001	0.002	0.002	0.007	0.004	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.001	0.002	0.002	0.007	0.005	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.001	0.002	0.002	0.008	0.004	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-111: SOLUBLE CHROMIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.001	0.001	0.000	0.003	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.001	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.001	0.001	0.002	0.002	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.001	0.001	0.004	0.002	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.001	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.001	0.001	0.004	0.000	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.001	0.001	0.003	0.000	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.001	0.001	0.002	0.002	0.000	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.001	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.001	0.002	0.003	0.001	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.002	0.001	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.002	0.003	0.001	0.002	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.001	0.002	0.002	0.001	0.001	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.001	0.002	0.003	0.000	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.001	0.002	0.002	0.002	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.001	0.006	0.001	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.002	0.004	0.005	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.001	0.007	0.001	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.001	0.001	0.002	0.003	0.002	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.001	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.002	0.004	0.001	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.001	0.000	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.001	0.001	0.007	0.003	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.000	0.001	0.001	0.007	0.001	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.000	0.001	0.001	0.005	0.003	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	0.001	0.001	0.005	0.001	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.001	ND	0.002	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.001	0.001	0.002	0.002	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.001	0.001	0.004	0.001	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.001	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.001	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.001	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.002	0.004	0.001	0.005	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.000	0.001	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.001	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.001	0.002	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.001	0.001	0.002	0.002	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.000	0.001	0.001	0.002	0.003	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.014	0.001	0.025	0.002	0.003	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.004	0.001	0.013	0.002	0.001	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.001	0.002	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.004	0.001	0.001	0.000	0.001	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.002	0.001	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.001	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-112: SOLUBLE IRON MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	0.120	0.020	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.041	0.042	0.042	0.173	0.099	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.029	0.031	0.025	0.123	0.090	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.072	0.052	0.070	0.192	0.120	0.185	0.291	0.177	0.206	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.029	0.035	0.045	0.124	0.097	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.040	0.052	0.071	0.168	0.115	0.183	0.212	0.178	0.204	ND	ND	ND
105 Frontage Road, Skokie River	0.023	0.027	0.036	0.119	0.098	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.025	0.035	0.035	0.120	0.083	0.108	0.111	0.108	0.134	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.027	0.028	0.038	0.120	0.086	0.092	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.022	0.040	0.021	0.076	0.042	0.072	0.074	0.070	0.057	ND	ND	ND
102 Oakton Street, North Shore Channel	0.025	0.036	0.047	0.075	0.053	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.025	0.029	0.026	0.093	0.070	0.041	0.047	0.031	0.042	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.030	0.033	0.037	0.107	0.076	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.035	0.041	0.038	0.104	0.084	0.055	0.068	0.054	0.063	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.036	0.043	0.049	0.108	0.080	0.067	0.073	0.057	0.068	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.033	0.042	0.048	0.106	0.081	0.058	0.073	0.054	0.072	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.008	0.015	0.012	0.055	0.047	0.038	0.034	0.025	0.037	ND	ND	ND
100 Wells Street, Chicago River	0.014	0.020	0.021	0.068	0.053	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.025	0.031	0.035	0.098	0.076	0.051	0.079	0.067	0.060	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.033	0.032	0.027	0.096	0.079	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.019	0.034	0.028	0.105	0.112	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.023	0.034	0.030	ND	ND	0.061	0.077	0.073	0.056	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.094	0.065	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.026	0.022	0.020	0.091	0.073	0.048	0.085	0.064	0.053	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.027	0.033	0.029	0.096	0.106	0.045	0.053	0.047	0.050	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.028	0.046	0.033	0.100	0.074	0.043	0.053	0.043	0.053	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.025	0.041	0.031	0.103	0.078	0.056	0.060	0.075	0.063	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.058	0.062	0.123	0.025	0.019	0.006	0.006
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.025	0.033	0.030	0.100	0.079	0.048	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.004	0.005	0.006	0.044	0.032	0.038	0.028	0.067	0.039	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.008	0.014	0.010	0.050	0.035	0.028	0.030	0.032	0.026	ND	ND	ND
55 130th Street, Calumet River	0.007	0.004	0.011	0.054	0.044	0.041	0.037	0.044	0.050	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.070	0.057	0.052	0.220	0.142	0.248	0.198	0.273	0.181	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.006	0.006	0.013	0.078	0.057	0.053	0.052	0.059	0.084	ND	ND	ND
76 Halsted Street, Little Calumet River	0.038	0.038	0.037	0.107	0.082	0.068	0.065	0.059	0.087	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.082	0.084	0.054	0.155	0.120	0.255	0.232	0.459	0.328	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.078	0.069	0.082	0.191	0.116	0.124	0.083	0.268	0.180	ND	ND	ND
97 170th Street, Thorn Creek	0.040	0.049	0.053	0.156	0.121	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.046	0.081	0.057	0.136	0.104	0.110	0.145	0.355	0.238	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.032	0.053	0.040	0.112	0.087	0.088	0.090	0.124	0.262	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.029	0.033	0.034	0.102	0.087	0.065	0.084	0.165	0.160	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.017	0.020	0.025	0.099	0.087	0.069	0.081	0.123	0.153	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.055	0.042	0.057	0.151	0.109	0.127	0.195	0.191	0.403	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.108	ND	0.185	0.249	0.217	0.306	0.305	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.054	0.054	0.069	0.119	0.096	0.088	0.066	0.059	0.103	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.042	0.038	0.049	0.108	0.085	0.148	0.119	0.123	0.198	ND	ND	ND
79 Higgins Road, Salt Creek	0.043	0.054	0.095	0.125	0.095	0.183	0.198	0.192	0.295	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.044	0.050	0.055	0.152	0.107	0.116	0.126	0.091	0.119	ND	ND	ND
18 Devon Avenue, Salt Creek	0.037	0.050	0.049	0.136	0.111	0.133	0.136	0.093	0.137	ND	ND	ND
24 Wolf Road, Salt Creek	0.051	0.032	0.056	0.127	0.094	0.099	0.125	0.075	0.164	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.039	0.035	0.040	0.084	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.184	0.096	0.116	0.121	0.084	0.139	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.052	0.060	0.086	0.123	0.098	0.147	0.259	0.226	0.247	ND	ND	ND
78 Wille Road, Higgins Creek	0.046	0.051	0.044	0.134	0.108	0.057	0.048	0.081	0.073	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.024	0.032	0.043	0.153	0.109	0.178	0.228	0.179	0.211	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.027	0.031	0.037	0.127	0.100	0.149	0.166	0.108	0.187	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.028	0.030	0.032	0.124	0.112	0.158	0.152	0.110	0.218	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.033	0.033	0.034	0.123	0.098	0.126	0.137	0.114	0.185	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.035	0.032	0.040	0.127	0.096	0.167	0.126	0.110	0.165	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.037	0.042	0.046	0.121	0.105	0.132	0.135	0.098	0.164	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.029	0.047	0.033	0.112	0.098	0.121	0.139	0.100	0.146	ND	ND	ND
29 Stephen Street, Des Plaines River	0.019	0.039	0.026	0.118	0.110	0.108	0.135	0.097	0.123	ND	ND	ND
91 Material Service Road, Des Plaines River	0.020	0.040	0.032	0.120	0.094	0.093	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.160	0.155	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-113: SOLUBLE LEAD MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.004	0.002	0.000	0.000	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.002	0.004	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.005	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.001	0.004	0.002	0.001	0.001	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.001	0.003	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.001	0.003	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.001	0.003	0.002	0.001	0.002	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.003	0.002	0.001	0.001	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.001	0.003	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.001	0.002	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.001	0.000	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.003	0.002	0.001	0.001	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.003	0.002	0.002	0.000	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.001	0.002	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.001	0.002	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.001	0.002	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.002	0.003	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.002	0.003	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.001	0.004	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.002	0.004	0.001	0.000	0.000	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.002	0.004	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.002	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.001	ND	0.000	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.001	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.001	0.003	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.002	0.005	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.001	0.004	0.002	0.000	0.000	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.001	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.001	0.005	0.002	0.003	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.000	0.000	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.002	0.005	0.003	0.000	0.000	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.002	0.005	0.001	0.000	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.002	0.005	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.002	0.004	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.002	0.004	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.001	0.004	0.003	0.001	0.000	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.002	0.004	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.002	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.001	0.004	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.002	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-114: SOLUBLE NICKEL MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)											
	05	04	03	02	01	00	99	98	97	96	95	
Chicago River System												
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.001	0.001	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.001	0.000	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.000	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.001	0.001	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.002	0.003	0.003	0.004	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.002	0.002	0.003	0.004	0.005	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.002	0.001	0.003	0.004	0.004	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.002	0.002	0.003	0.004	0.004	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.003	0.003	0.005	0.006	0.004	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.001	0.004	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.001	0.001	0.003	0.002	0.008	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.002	0.003	0.004	0.005	0.006	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.002	0.002	0.004	0.004	0.003	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.002	0.002	0.004	0.004	0.003	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.003	0.003	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.002	0.003	0.003	0.005	0.003	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.004	0.004	0.005	0.003	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.005	0.007	0.005	0.007	0.004	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.005	0.005	0.006	0.003	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.004	0.004	0.005	0.005	0.003	ND	ND	ND	ND	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.000	0.001	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.002	0.003	0.002	0.006	0.003	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.001	0.001	0.001	0.004	0.001	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.002	0.001	0.002	0.003	0.001	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.001	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.004	0.001	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.004	0.002	0.001	0.006	0.002	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.002	0.001	0.002	0.004	0.001	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.002	0.001	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.003	0.002	0.002	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.002	0.002	0.002	0.004	0.001	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.001	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.002	0.000	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.002	0.000	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.001	0.000	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.002	0.001	0.001	0.003	0.003	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.002	0.002	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.003	0.004	0.002	0.008	0.003	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.003	0.004	0.002	0.010	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.002	0.004	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.012	0.006	0.004	0.007	0.008	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.003	0.002	0.003	0.004	0.001	ND	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.002	0.001	0.002	0.003	0.002	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.005	0.002	0.003	0.005	0.002	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.004	0.002	0.002	0.005	0.002	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.003	0.002	0.003	0.006	0.003	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.003	0.002	0.003	0.005	0.002	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.003	0.002	0.002	0.005	0.002	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.003	0.002	0.003	0.006	0.002	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-115: SOLUBLE MANGANESE MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.059	0.054	0.032	0.034	0.057	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.054	0.043	0.037	0.047	0.040	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.100	0.071	0.057	0.111	0.050	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.054	0.035	0.025	0.023	0.028	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.094	0.109	0.065	0.066	0.073	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.021	0.020	0.012	0.013	0.027	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.044	0.036	0.034	0.032	0.037	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.033	0.022	0.025	0.023	0.030	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.005	0.010	0.010	0.012	0.013	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.011	0.018	0.019	0.013	0.022	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.013	0.013	0.010	0.017	0.023	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.013	0.016	0.012	0.015	0.010	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.018	0.017	0.015	0.018	0.019	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.019	0.020	0.021	0.019	0.029	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.025	0.028	0.024	0.023	0.026	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.011	0.007	0.007	0.009	0.010	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.015	0.014	0.016	0.012	0.015	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.040	0.020	0.022	0.023	0.019	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.028	0.021	0.020	0.023	0.022	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.028	0.026	0.024	0.033	0.042	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.022	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.025	0.031	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.018	0.018	0.020	0.022	0.018	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.013	0.013	0.013	0.013	0.015	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.017	0.018	0.020	0.016	0.022	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.028	0.027	0.026	0.024	0.028	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.025	0.029	0.026	0.030	0.027	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.008	0.008	0.006	0.006	0.007	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.008	0.014	0.004	0.006	0.004	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.012	0.014	0.005	0.004	0.007	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.067	0.083	0.108	0.078	0.057	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.012	0.009	0.008	0.011	0.009	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.029	0.027	0.026	0.031	0.040	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.089	0.114	0.090	0.094	0.089	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.060	0.059	0.026	0.054	0.038	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.061	0.064	0.046	0.046	0.043	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.081	0.083	0.083	0.063	0.058	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.039	0.036	0.033	0.043	0.039	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.036	0.046	0.033	0.044	0.044	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.039	0.057	0.024	0.034	0.043	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.077	0.048	0.040	0.057	0.063	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.029	ND	0.093	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.034	0.031	0.029	0.048	0.046	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.053	0.042	0.037	0.036	0.040	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.036	0.044	0.023	0.034	0.041	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.024	0.030	0.020	0.018	0.021	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.026	0.031	0.021	0.020	0.027	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.031	0.035	0.029	0.035	0.034	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.035	0.034	0.026	0.023	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.037	0.035	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.072	0.091	0.074	0.073	0.099	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.016	0.018	0.019	0.022	0.018	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.083	0.047	0.025	0.054	0.048	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.036	0.033	0.030	0.029	0.024	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.039	0.028	0.025	0.034	0.021	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.045	0.035	0.029	0.052	0.032	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.039	0.034	0.021	0.050	0.025	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.029	0.028	0.033	0.027	0.021	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.033	0.052	0.019	0.028	0.021	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.022	0.027	0.018	0.021	0.018	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.021	0.027	0.019	0.016	0.015	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.186	0.092	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-116: SOLUBLE MERCURY MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	0.093	ND	0.000	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.080	0.020	0.008	0.000	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	0.030	0.075	0.010	0.000	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	ND	0.000	ND	0.000	0.000	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.025	0.000	0.065	0.013	0.000	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.045	0.014	0.000	0.032	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.018	0.075	0.012	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.075	0.058	0.000	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	ND	0.000	0.008	0.000	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.012	ND	0.038	0.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.015	0.000	0.030	0.000	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.023	0.000	0.008	0.000	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.080	0.015	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	0.000	0.000	0.027	0.000	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.103	0.000	0.025	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	0.167	0.015	0.090	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.083	0.000	0.030	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	ND	0.050	0.075	0.030	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	0.000	0.000	0.020	0.060	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	0.000	0.000	0.023	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.010	0.000	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	0.000	0.007	0.033	0.017	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.030	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	0.016	0.087	0.000	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.025	0.002	0.013	0.016	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	0.090	0.000	0.028	0.000	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	ND	0.000	ND	0.020	0.000	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.085	0.020	0.022	0.026	0.000	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	0.000	0.020	0.000	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	ND	0.000	0.000	0.019	0.000	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	ND	0.000	0.020	0.000	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	0.070	0.020	0.000	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.018	0.000	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	ND	0.000	0.070	0.023	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	ND	0.043	0.000	0.022	0.000	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.000	ND	0.000	0.028	0.000	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.060	0.055	0.000	0.013	0.080	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	ND	0.000	0.000	0.007	0.025	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	ND	0.043	0.000	0.003	0.020	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	ND	0.080	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.020	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.027	0.070	0.000	0.020	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	ND	0.030	0.020	0.004	0.000	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	ND	0.050	0.000	0.005	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	0.020	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	0.000	0.000	0.033	0.040	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.050	0.000	0.005	0.033	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.025	0.000	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.063	0.045	0.048	0.030	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.080	0.070	0.033	0.020	0.017	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	ND	0.030	0.000	0.003	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	0.000	0.000	0.015	0.000	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	ND	0.025	0.090	0.004	0.025	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.018	0.015	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	ND	0.000	0.005	0.003	0.010	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.100	0.000	0.018	0.010	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.000	0.080	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-117: SOLUBLE ZINC MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.019	0.029	0.012	0.010	0.035	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.011	0.012	0.008	0.012	0.011	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.005	0.007	0.004	0.007	0.005	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.018	0.019	0.013	0.017	0.014	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.011	0.010	0.006	0.009	0.007	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.023	0.019	0.022	0.021	0.012	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.014	0.017	0.014	0.017	0.011	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.015	0.012	0.012	0.017	0.012	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.004	0.006	0.006	0.007	0.004	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.018	0.015	0.015	0.020	0.009	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.029	0.029	0.029	0.032	0.029	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.028	0.032	0.027	0.027	0.027	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.031	0.025	0.024	0.025	0.024	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.024	0.025	0.024	0.025	0.024	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.028	0.023	0.026	0.028	0.021	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.012	0.013	0.009	0.013	0.015	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.014	0.014	0.018	0.014	0.016	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.023	0.027	0.023	0.023	0.018	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.022	0.022	0.023	0.023	0.017	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.017	0.020	0.020	0.019	0.013	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.023	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.023	0.025	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.021	0.020	0.019	0.021	0.018	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.023	0.022	0.023	0.022	0.022	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.024	0.028	0.026	0.028	0.022	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.022	0.025	0.024	0.025	0.020	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.024	0.025	0.024	0.025	0.018	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.005	0.011	0.005	0.004	0.004	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.004	0.004	0.001	0.004	0.003	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.008	0.008	0.003	0.007	0.005	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.020	0.021	0.021	0.031	0.024	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.009	0.010	0.009	0.015	0.008	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.026	0.024	0.031	0.032	0.023	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.013	0.014	0.012	0.018	0.010	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.032	0.039	0.021	0.036	0.028	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.020	0.024	0.023	0.030	0.013	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.019	0.016	0.024	0.014	0.010	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.036	0.029	0.031	0.024	0.024	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.023	0.021	0.019	0.025	0.020	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.026	0.022	0.019	0.023	0.017	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.005	0.004	0.010	0.007	0.005	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.009	ND	0.014	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.036	0.043	0.032	0.036	0.032	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.027	0.032	0.027	0.026	0.027	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.004	0.007	0.003	0.003	0.002	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.021	0.035	0.018	0.019	0.020	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.028	0.024	0.018	0.019	0.016	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.029	0.025	0.025	0.029	0.019	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.026	0.027	0.017	0.025	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.028	0.020	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.017	0.021	0.016	0.013	0.012	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.062	0.057	0.049	0.048	0.043	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.008	0.009	0.002	0.007	0.002	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.021	0.019	0.018	0.017	0.013	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.019	0.018	0.014	0.016	0.009	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.027	0.022	0.025	0.024	0.014	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.026	0.021	0.020	0.023	0.011	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.024	0.021	0.028	0.022	0.015	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.022	0.021	0.017	0.019	0.012	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.021	0.022	0.019	0.020	0.012	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.018	0.020	0.021	0.018	0.010	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.011	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

TABLE AII-118: SOLUBLE SELENIUM MEAN HISTORY
1995 THROUGH 2005

Sampling Station (No. Name)	Annual Means (mg/L)										
	05	04	03	02	01	00	99	98	97	96	95
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.011	0.006	0.000	0.007	0.000	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.007	0.008	0.005	0.006	0.002	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.005	0.005	0.002	0.006	0.002	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.006	0.006	0.002	0.004	0.002	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.006	0.007	0.004	0.005	0.000	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	0.005	0.005	0.006	0.001	0.000	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.008	0.006	0.005	0.005	0.000	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.007	0.007	0.003	0.006	0.000	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.007	0.005	0.003	0.005	0.000	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.005	0.005	0.001	0.003	0.000	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.006	0.005	0.006	0.005	0.000	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.007	0.007	0.004	0.004	0.000	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.008	0.006	0.004	0.006	0.002	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.006	0.005	0.005	0.004	0.000	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.007	0.006	0.005	0.007	0.000	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.005	0.005	0.003	0.001	0.000	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	0.003	0.007	0.004	0.002	0.000	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.006	0.007	0.002	0.002	0.000	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.007	0.009	0.005	0.002	0.000	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.005	0.007	0.004	0.002	0.000	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.006	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.004	0.000	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.006	0.005	0.004	0.004	0.000	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.006	0.009	0.003	0.001	0.000	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.005	0.006	0.002	0.001	0.002	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.005	0.006	0.004	0.002	0.005	ND	ND	ND	ND	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.005	0.006	0.004	0.005	0.001	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.005	0.007	0.004	0.002	0.002	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.004	0.005	0.003	0.002	0.000	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	0.002	0.004	0.003	0.002	0.000	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.006	0.008	0.002	0.005	0.002	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.003	0.004	0.003	0.005	0.000	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.004	0.005	0.005	0.003	0.000	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.004	0.008	0.003	0.003	0.005	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.005	0.005	0.008	0.000	0.005	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.004	0.005	0.004	0.006	0.004	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.004	0.005	0.003	0.005	0.002	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet Sag Channel	0.005	0.005	0.005	0.001	0.000	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet Sag Channel	0.004	0.007	0.004	0.005	0.004	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet Sag Channel	0.004	0.005	0.004	0.005	0.002	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.005	0.008	0.003	0.006	0.004	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	0.000	ND	0.000	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.005	0.005	0.004	0.003	0.002	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.007	0.004	0.005	0.005	0.000	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.005	0.007	0.001	0.006	0.000	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.007	0.005	0.002	0.004	0.000	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	0.008	0.005	0.003	0.002	0.000	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	0.006	0.006	0.003	0.008	0.000	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.005	0.006	0.003	0.011	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	0.005	0.002	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.009	0.006	0.003	0.002	0.002	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.006	0.006	0.004	0.006	0.000	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.005	0.006	0.003	0.010	0.002	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.006	0.005	0.005	0.010	0.002	ND	ND	ND	ND	ND	ND
17 Oakton Steet, Des Plaines River	0.005	0.008	0.003	0.006	0.004	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.006	0.006	0.004	0.005	0.000	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.005	0.006	0.003	0.006	0.000	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.008	0.007	0.005	0.010	0.002	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.006	0.005	0.003	0.005	0.000	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	0.006	0.006	0.002	0.006	0.000	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	0.006	0.006	0.003	0.003	0.001	ND	ND	ND	ND	ND	ND
110 Springingsuth Road, West Branch DuPage River	0.008	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

APPENDIX AIII

SIGNIFICANCE TESTS ON 2005 UPSTREAM AND DOWN STREAM SAMPLE MEANS
SIGNIFICANCE PROBABILITIES ASSOCIATED WITH APPLICABLE TESTS

TABLE AIII-1: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 59 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF NORTH SIDE WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
DO (mg/L)	0.941	1.000	0.001	...	0.603	...
Temp (°C)	0.981	1.000	0.436	0.600	...	...
pH	1.000	0.846	0.138	0.057	...	...
Alk (mg/L)	0.832	0.226	0.093	0.029	...	...
Cl (mg/L)	0.182	0.650	0.018	...	0.017	...
Turb (NTU)	0.955	0.559	0.291	0.609	...	...
TKN (mg/L)	0.894	0.532	0.000	...	0.002	...
NH ₄ -N (mg/L)	1.000	0.817	0.000	...	0.009	...
NH ₃ -N (mg/L)	0.949	0.490	0.000	...	0.027	...
ORG-N (mg/L)	0.896	0.985	0.049	0.000	...	...
NO ₂ + NO ₃ (mg/L)	0.640	0.845	0.000	0.000	...	...
TS (mg/L)	0.567	0.898	0.031	...	0.004	...
TSS (mg/L)	1.000	0.784	0.446	0.352	...	...
VSS (mg/L)	0.987	1.000	0.468	0.316	...	...
TDS (mg/L)	0.556	0.932	0.036	...	0.005	...
Phenol (μ g/L)	0.946	1.000	0.403	0.013	...	...
SO ₄ (mg/L)	0.441	0.918	0.278	0.001	...	...
TP (mg/L)	0.171	1.000	0.000	0.000	...	...
WAD-CN (mg/L)	0.861	0.923	0.034	...	0.001	...
F (mg/L)	0.539	0.974	0.033	0.000	...	...
TOC (mg/L)	1.000	0.988	0.035	...	...	0.001
FC (cfu/100mL)*	0.996	0.571	0.006	...	0.001	...
EColi (cfu/100mL)*	1.000	1.000	0.009	...	0.077	...
Ca (mg/L)	0.771	0.997	0.249	0.004	...	...
Mg (mg/L)	0.455	0.906	0.457	0.008	...	...
Hard (mg/L)	0.626	0.995	0.333	...	...	0.005

TABLE AIII-1 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 59 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF NORTH SIDE WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Alpha (pCi/L)	1.000	1.000	0.520	0.035	...	...
Beta (pCi/L)	0.585	0.829	0.008	0.000	...	...
Chlrphl ($\mu\text{g/L}$)	0.103	0.887	0.000	...	0.474	...
Bzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Ebnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Toln ($\mu\text{g/L}$)	-	-	-	-	-	-
Xyln ($\mu\text{g/L}$)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	...	...
Ba (mg/L)	0.645	0.998	0.091	0.142	...	...
B (mg/L)	0.829	1.000	0.002	0.000	...	...
Cd (mg/L)	0.078	0.069	0.037	...	0.159	...
Cu (mg/L)	0.771	0.915	0.144	0.223	...	...
Cr ⁺⁶ ($\mu\text{g/L}$)	0.810	0.166	0.230	0.640	...	...
Fe (mg/L)	0.397	0.530	0.007	...	0.364	...
Pb (mg/L)	0.773	0.832	0.330	0.556	...	...
Ni (mg/L)	0.078	0.904	0.002	...	0.014	...
Mn (mg/L)	0.125	0.530	0.000	...	0.492	...
Hg ($\mu\text{g/L}$)	0.078	0.364	0.162	0.396	...	...
Zn (mg/L)	0.229	1.000	0.035	...	0.040	...
Se (mg/L)	1.000	0.999	0.213	0.600	...	...
Sol.Ca (mg/L)	0.845	0.788	0.016	...	0.002	...
Sol.Mg (mg/L)	0.488	0.757	0.077	0.007	...	...
Sol.Ag (mg/L)	-	-	-	-	...	...
Sol.As (mg/L)	-	-	-	-	...	...
Sol.Ba (mg/L)	1.000	0.976	0.065	0.545	...	...
Sol.B (mg/L)	1.000	0.999	0.000	0.000	...	...

TABLE AIII-1 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 59 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF NORTH SIDE WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Sol.Cd (mg/L)	0.179	0.177	0.322	0.463	...	...
Sol.Cr (mg/L)	0.236	0.068	0.005	...	0.630	...
Sol.Fe (mg/L)	0.335	0.951	0.000	...	0.870	...
Sol.Pb (mg/L)	0.443	0.489	0.068	0.304	...	...
Sol.Mn (mg/L)	0.901	0.543	0.064	0.005	...	...
Sol.Zn (mg/L)	0.965	0.973	0.003	0.000	...	...
Sol.Se (mg/L)	0.750	0.999	0.142	0.409	...	...

¹Significance probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means only.

-= No test was done since standard deviation is zero.

...=Not appropriate Test.

TABLE AIII-2: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF STICKNEY WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
DO (mg/L)	0.998	0.992	0.356	0.059	...	...
Temp (°C)	1.000	0.940	0.445	0.437	...	...
pH	1.000	0.930	0.131	0.639	...	...
Alk (mg/L)	0.373	0.280	0.175	0.241	...	...
Cl (mg/L)	0.796	0.858	0.276	0.883	...	...
Turb (NTU)	0.932	0.993	0.004	0.000	...	...
TKN (mg/L)	0.770	0.299	0.141	0.773	...	...
NH ₄ -N (mg/L)	0.643	0.313	0.305	0.620	...	...
NH ₃ -N (mg/L)	0.254	0.641	0.000	...	0.160	...
ORG-N (mg/L)	0.846	0.779	0.004	...	0.556	...
NO ₂ + NO ₃ (mg/L)	1.000	0.727	0.059	0.000	...	...
TS (mg/L)	0.722	0.780	0.221	0.670	...	...
TSS (mg/L)	0.997	0.968	0.201	0.039	...	...
VSS (mg/L)	0.352	0.889	0.419	0.414	...	...
TDS (mg/L)	0.665	0.804	0.233	0.640	...	...
Phenol (µg/L)	0.998	1.000	0.436	0.895	...	...
SO ₄ (mg/L)	0.987	1.000	0.305	0.006	...	...
FOG (mg/L)	0.152	0.036	0.221	...	...	0.335
TP (mg/L)	0.930	1.000	0.088	0.217	...	...
CN (mg/L)	0.597	0.738	0.418	0.039	...	...
WAD-CN (mg/L)	1.000	1.000	0.444	0.030	...	...
F (mg/L)	0.999	1.000	0.223	0.002	...	...
TOC (mg/L)	0.758	0.829	0.498	0.334	...	...
FC (cfu/100mL)*	0.950	0.997	0.145	0.000	...	...
EColi (cfu/100mL)*	1.000	1.000	0.317	0.016	...	...
Ca (mg/L)	0.535	0.824	0.211	0.967	...	...

TABLE AIII-2 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF STICKNEY WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Mg (mg/L)	0.573	0.794	0.202	0.979	...	...
Hard (mg/L)	0.550	0.834	0.207	0.972	...	...
Alpha (pCi/L)	1.000	1.000	0.480	0.806	...	...
Beta (pCi/L)	0.985	1.000	0.277	0.505	...	...
Chlrphl ($\mu\text{g/L}$)	0.922	0.504	0.023	...	0.120	...
Bnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Ebnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Toln ($\mu\text{g/L}$)	-	-	-	-	-	-
Xyln ($\mu\text{g/L}$)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	...	...
Ba (mg/L)	0.442	0.711	0.256	0.029	...	...
B (mg/L)	1.000	0.812	0.423	0.003	...	...
Cd (mg/L)	0.160	0.031	0.431	...	...	0.535
Cu (mg/L)	0.485	0.469	0.000	...	0.049	...
Cr ⁺⁶ ($\mu\text{g/L}$)	0.075	0.067	0.320	0.850	...	...
Fe (mg/L)	1.000	0.692	0.108	0.005	...	...
Pb (mg/L)	0.796	0.929	0.414	0.048	...	...
Ni (mg/L)	0.992	0.313	0.048	...	0.028	...
Mn (mg/L)	0.896	0.996	0.003	...	0.033	...
Zn (mg/L)	0.846	1.000	0.464	0.812	...	...
Se (mg/L)	0.972	0.949	0.227	0.631	...	...
Sol.Ca (mg/L)	0.485	0.750	0.336	0.973	...	...
Sol.Mg (mg/L)	0.618	0.695	0.301	0.978	...	...
Sol.Ag (mg/L)	-	-	-	-	...	...
Sol.As (mg/L)	-	-	-	-	...	...
Sol.Ba (mg/L)	0.375	0.721	0.349	0.176	...	...

TABLE AIII-2 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF STICKNEY WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Sol.B (mg/L)	1.000	0.452	0.460	0.002	...	...
Sol.Cd (mg/L)	0.912	0.833	0.332	0.872	...	...
Sol.Cr (mg/L)	0.069	0.917	0.140	0.002	...	...
Sol.Fe (mg/L)	0.212	1.000	0.000	0.981	...	...
Sol.Pb (mg/L)	0.335	0.507	0.294	0.971	...	...
Sol.Ni (mg/L)	0.596	0.797	0.094	0.010	...	...
Sol.Mn (mg/L)	0.688	0.797	0.002	...	0.213	...
Sol.Zn (mg/L)	0.851	0.943	0.485	0.447	...	...
Sol.Se (mg/L)	0.983	0.819	0.055	0.893	...	...

¹Significance probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means only.

-= No test was done since standard deviation is zero.

...=Not appropriate Test.

TABLE AIII-3: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF CALUMET WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
DO (mg/L)	0.889	1.000	0.000	...	0.044	...
Temp (°C)	1.000	1.000	0.177	0.911	...	...
pH	1.000	0.980	0.356	0.892	...	...
Alk (mg/L)	0.774	0.599	0.320	0.035	...	...
Cl (mg/L)	0.980	0.995	0.033	...	0.030	...
Turb (NTU)	0.859	0.916	0.004	...	0.001	...
TKN (mg/L)	0.716	0.990	0.056	0.022	...	...
NH ₄ -N (mg/L)	0.890	0.979	0.064	0.313	...	...
NH ₃ -N (mg/L)	0.585	0.217	0.000	...	0.185	...
ORG-N (mg/L)	0.992	0.755	0.229	0.010	...	...
NO ₂ + NO ₃ (mg/L)	0.828	0.997	0.049	0.000	...	...
TS (mg/L)	0.988	1.000	0.111	0.061	...	...
TSS (mg/L)	1.000	0.901	0.011	...	0.012	...
VSS (mg/L)	0.953	0.916	0.400	0.502	...	...
TDS (mg/L)	0.921	1.000	0.108	0.047	...	...
Phenol (µg/L)	1.000	1.000	0.102	0.002	...	...
SO ₄ (mg/L)	0.678	0.986	0.106	0.046	...	...
TP (mg/L)	0.979	0.660	0.019	0.000	...	...
CN (mg/L)	0.126	1.000	0.482	0.024	...	...
WAD-CN (mg/L)	1.000	1.000	0.156	0.086	...	...
F (mg/L)	0.985	0.999	0.373	0.000	...	...
TOC (mg/L)	0.930	0.734	0.344	0.033	...	...
FC (cfu/100mL)*	1.000	0.998	0.235	0.000	...	...
EColi (cfu/100mL)*	1.000	1.000	0.224	0.023	...	...
Ca (mg/L)	0.980	0.824	0.426	0.033	...	...
Mg (mg/L)	0.805	0.790	0.449	0.097	...	...

TABLE AIII-3 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF CALUMET WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Hard (mg/L)	0.955	0.794	0.474	0.050	...	...
Alpha (pCi/L)	0.997	0.675	0.054	0.064	...	...
Beta (pCi/L)	1.000	0.886	0.468	0.021	...	...
Chlrphl (μ g/L)	1.000	0.699	0.050	0.045	...	...
Bnzn (μ g/L)	-	-	-	-	-	-
Ebnzn (μ g/L)	-	-	-	-	-	-
Xyln (μ g/L)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	...	...
As (mg/L)	0.042	0.006	0.034	...	...	0.944
Ba (mg/L)	0.785	0.998	0.353	0.001	...	...
B (mg/L)	0.995	0.996	0.030	...	0.014	...
Cd (mg/L)	0.209	0.377	0.331	0.474	...	...
Cu (mg/L)	0.556	0.985	0.181	0.837	...	...
Cr (mg/L)	-	-	-	-	...	...
Cr ⁺⁶ (μ g/L)	0.423	0.709	0.191	0.390	...	...
Fe (mg/L)	1.000	0.637	0.001	...	0.004	...
Pb (mg/L)	1.000	0.727	0.118	0.385	...	...
Ni (mg/L)	0.247	0.301	0.000	...	0.225	...
Mn (mg/L)	1.000	0.895	0.309	0.998	...	...
Hg (μ g/L)	0.209	0.033	0.378	...	...	0.894
Zn (mg/L)	0.993	0.378	0.019	...	0.032	...
Se (mg/L)	0.727	0.767	0.175	0.633	...	...
Sol.Ca (mg/L)	0.842	0.902	0.333	0.022	...	...
Sol.Mg (mg/L)	0.494	0.976	0.473	0.073	...	...
Sol.Ag (mg/L)	-	-	-	-	...	...
Sol.Ba (mg/L)	1.000	0.999	0.418	0.003	...	...

TABLE AIII-3 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 61 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF CALUMET WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Sol.B (mg/L)	0.976	0.933	0.030	...	0.021	...
Sol.Cd (mg/L)	0.241	0.904	0.347	0.356	...	...
Sol.Cr (mg/L)	0.090	0.659	0.037	...	0.228	...
Sol.Fe (mg/L)	1.000	0.958	0.000	0.000	...	...
Sol.Pb (mg/L)	0.830	0.995	0.237	0.372	...	...
Sol.Ni (mg/L)	0.391	0.165	0.002	...	0.196	...
Sol.Mn (mg/L)	0.762	0.965	0.437	0.017	...	...
Sol.Zn (mg/L)	0.642	0.997	0.339	0.000	...	...
Sol.Se (mg/L)	0.681	0.602	0.450	0.808	...	...

¹Significance probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means only.

-= No test was done since standard deviation is zero.

...=Not appropriate Test.

TABLE AIII-4: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 62 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF JOHN E. EGAN WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
DO (mg/L)	0.967	1.000	0.039	...	0.093	...
Temp (°C)	0.863	0.966	0.457	0.505	...	...
pH	1.000	1.000	0.351	0.798	...	...
Alk (mg/L)	0.998	0.841	0.084	0.725	...	...
Cl (mg/L)	0.997	0.833	0.307	0.335	...	...
Turb (NTU)	0.894	0.865	0.000	...	0.003	...
TKN (mg/L)	1.000	1.000	0.465	0.052	...	...
NH ₄ -N (mg/L)	0.766	0.241	0.006	...	0.306	...
NH ₃ -N (mg/L)	0.272	0.026	0.001	...	...	0.696
ORG-N (mg/L)	1.000	0.869	0.101	0.048	...	...
NO ₂ + NO ₃ (mg/L)	0.917	1.000	0.000	0.000	...	...
TS (mg/L)	1.000	0.941	0.256	0.056	...	...
TSS (mg/L)	0.918	0.997	0.000	...	0.003	...
VSS (mg/L)	0.845	0.998	0.443	0.001	...	...
TDS (mg/L)	1.000	0.926	0.239	0.085	...	...
Phenol (µg/L)	0.931	0.986	0.043	...	0.014	...
SO ₄ (mg/L)	1.000	0.931	0.013	...	0.758	...
TP (mg/L)	1.000	0.983	0.000	0.000	...	...
CN (mg/L)	0.210	0.539	0.034	...	0.043	...
WAD-CN (mg/L)	0.992	0.967	0.002	...	0.004	...
F (mg/L)	0.912	1.000	0.000	0.001	...	...
TOC (mg/L)	0.998	0.913	0.151	0.168	...	...
FC (cfu/100mL)*	0.601	0.950	0.008	...	0.843	...
EColi (cfu/100mL)*	1.000	1.000	0.160	0.624	...	...
Ca (mg/L)	0.991	0.886	0.093	0.951	...	...
Mg (mg/L)	1.000	0.847	0.030	...	0.441	...

TABLE AIII-4 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 62 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF JOHN E. EGAN WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Hard (mg/L)	0.996	0.923	0.062	0.734	...	...
Alpha (pCi/L)	1.000	0.960	0.235	0.515	...	...
Beta (pCi/L)	1.000	1.000	0.348	0.143	...	...
Chlrphl ($\mu\text{g/L}$)	0.912	0.957	0.397	0.000	...	...
Bnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Ebnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Toln ($\mu\text{g/L}$)	-	-	-	-	-	-
Xyln ($\mu\text{g/L}$)	-	-	-	-	-	-
Ag (mg/L)	0.042	0.006	0.268	...	...	0.944
As (mg/L)	0.042	0.006	0.047	...	...	0.834
Ba (mg/L)	1.000	0.986	0.130	0.007	...	...
B (mg/L)	0.997	0.868	0.021	...	0.001	...
Cd (mg/L)	0.996	0.628	0.251	0.503	...	...
Cu (mg/L)	0.906	1.000	0.217	0.731	...	...
Cr (mg/L)	0.202	0.006	0.101	...	...	0.213
Cr ⁺⁶ ($\mu\text{g/L}$)	0.870	0.963	0.395	0.479	...	...
Fe (mg/L)	0.896	0.332	0.001	...	0.004	...
Pb (mg/L)	1.000	1.000	0.244	0.180	...	...
Ni (mg/L)	0.891	0.660	0.115	0.276	...	...
Mn (mg/L)	1.000	0.380	0.069	...	...	0.003
Hg ($\mu\text{g/L}$)	0.042	0.014	0.011	...	...	0.683
Zn (mg/L)	0.933	0.753	0.034	...	0.127	...
Se (mg/L)	0.998	1.000	0.348	0.533	...	...
Sol.Ca (mg/L)	0.957	0.964	0.233	0.767	...	...
Sol.Mg (mg/L)	0.998	0.952	0.075	0.520	...	...
Sol.Ag (mg/L)	0.042	0.006	0.024	...	...	0.834

TABLE AIII-4 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 62 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF JOHN E. EGAN WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Sol.As (mg/L)	-	-	-	-	...	...
Sol.Ba (mg/L)	1.000	0.937	0.226	0.027	...	...
Sol.B (mg/L)	1.000	0.941	0.012	0.001	...	...
Sol.Cd (mg/L)	0.253	0.039	0.094	...	...	0.562
Sol.Fe (mg/L)	0.327	0.986	0.001	...	0.915	...
Sol.Pb (mg/L)	0.991	0.652	0.290	0.480	...	...
Sol.Ni (mg/L)	0.247	0.301	0.385	0.384	...	...
Sol.Mn (mg/L)	0.883	0.364	0.457	0.353	...	...
Sol.Zn (mg/L)	0.991	1.000	0.003	0.000	...	...
Sol.Se (mg/L)	1.000	0.993	0.257	0.277	...	...

¹Significance probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means only.

-= No test was done since standard deviation is zero.

...=Not appropriate Test.

TABLE AIII-5: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF JAMES C. KIRIE WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
DO (mg/L)	1.000	1.000	0.017	...	0.827	...
Temp (°C)	1.000	1.000	0.322	0.250	...	...
pH	1.000	0.830	0.204	0.952	...	...
Alk (mg/L)	0.999	0.998	0.224	0.108	...	...
Cl (mg/L)	1.000	0.635	0.027	...	0.123	...
Turb (NTU)	1.000	0.739	0.000	...	0.017	...
TKN (mg/L)	1.000	0.569	0.421	0.517	...	...
NH ₄ -N (mg/L)	1.000	0.682	0.239	0.073	...	...
NH ₃ -N (mg/L)	0.853	0.894	0.056	0.916	...	...
ORG-N (mg/L)	1.000	0.964	0.559	0.798	...	...
NO ₂ + NO ₃ (mg/L)	0.960	0.516	0.001	0.000	...	...
TS (mg/L)	1.000	0.594	0.007	...	0.225	...
TSS (mg/L)	1.000	0.871	0.007	...	0.005	...
VSS (mg/L)	1.000	0.105	0.271	0.000	...	...
TDS (mg/L)	1.000	0.612	0.006	...	0.251	...
Phenol (µg/L)	1.000	0.989	0.297	0.033	...	...
SO ₄ (mg/L)	1.000	0.998	0.237	0.000	...	...
TP (mg/L)	0.997	0.829	0.001	...	0.000	...
CN (mg/L)	1.000	0.068	0.003	...	0.785	...
WAD-CN (mg/L)	1.000	0.985	0.063	0.381	...	...
F (mg/L)	1.000	1.000	0.027	0.000	...	...
TOC (mg/L)	0.884	1.000	0.477	0.843	...	...
FC (cfu/100mL)*	1.000	0.889	0.479	0.289	...	...
EColi (cfu/100mL)*	1.000	0.960	0.302	0.941	...	...
Ca (mg/L)	1.000	0.732	0.121	0.428	...	...
Mg (mg/L)	1.000	0.772	0.193	0.243	...	...

TABLE AIII-5 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF JAMES C. KIRIE WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Hard (mg/L)	1.000	0.707	0.147	0.344	...	...
Alpha (pCi/L)	1.000	0.982	0.001	...	0.191	...
Beta (pCi/L)	1.000	1.000	0.109	0.074	...	...
Chlrphl ($\mu\text{g/L}$)	1.000	0.908	0.001	...	0.011	...
Bnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Ebnzn ($\mu\text{g/L}$)	-	-	-	-	-	-
Toln ($\mu\text{g/L}$)	-	-	-	-	-	-
Xyln ($\mu\text{g/L}$)	-	-	-	-	-	-
Ba (mg/L)	1.000	0.760	0.020	...	0.027	...
B (mg/L)	0.995	0.992	0.131	0.000	...	...
Cd (mg/L)	0.999	0.642	0.387	0.591	...	...
Cu (mg/L)	1.000	0.983	0.445	0.839	...	...
Cr (mg/L)	-	-	-	-	...	...
Cr ⁺⁶ ($\mu\text{g/L}$)	0.999	0.454	0.519	0.642	...	...
Fe (mg/L)	1.000	0.352	0.001	...	0.008	...
Pb (mg/L)	1.000	0.999	0.395	1.000	...	...
Ni (mg/L)	0.996	0.878	0.008	...	0.000	...
Mn (mg/L)	1.000	0.954	0.003	...	0.012	...
Zn (mg/L)	0.999	0.992	0.027	...	0.048	...
Se (mg/L)	1.000	0.991	0.408	0.416	...	...
Sol.Ca (mg/L)	1.000	1.000	0.201	0.259	...	...
Sol.Mg (mg/L)	1.000	1.000	0.267	0.138	...	...
Sol.As (mg/L)	-	-	-	-	...	...
Sol.Ba (mg/L)	1.000	0.910	0.004	...	0.055	...
Sol.B (mg/L)	0.850	0.993	0.220	0.000	...	...
Sol.Cd (mg/L)	0.818	0.105	0.065	0.441	...	...

TABLE AIII-5 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 60 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF JAMES C. KIRIE WATER RECLAMATION PLANT IN 2005

Parameter (Unit)	¹ Significance probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal	H_0 :Normal	$H_0 : \sigma_u = \sigma_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$	$H_0 : \mu_u = \mu_d$
	(U)	(D)	F	Exact T	Approx T	WilCox T
Sol.Cu (mg/L)	0.818	0.753	0.307	0.129	...	...
Sol.Cr (mg/L)	0.999	0.921	0.547	0.123	...	...
Sol.Fe (mg/L)	1.000	0.987	0.006	...	0.691	...
Sol.Pb (mg/L)	1.000	0.757	0.513	0.957	...	...
Sol.Ni (mg/L)	0.818	1.000	0.007	...	0.000	...
Sol.Mn (mg/L)	1.000	0.993	0.001	...	0.026	...
Sol.Zn (mg/L)	0.920	1.000	0.060	0.000	...	...
Sol.Se (mg/L)	1.000	0.983	0.129	0.144	...	...

¹Significance probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

*Test applies to population means if variances of log values are equal, otherwise applies to geometric means only.

-= No test was done since standard deviation is zero.

...=Not appropriate Test.