

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 10-36

2009 ANNUAL SUMMARY REPORT

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

July 2010

Metropolitan Water Reclamation District of Greater Chicago
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2009 ANNUAL SUMMARY REPORT
WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF
THE METROPOLITAN WATER RECLAMATION DISTRICT
OF GREATER CHICAGO

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

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Parameter	Sample Mean during 2009	Violation History through 2009	Mean History through 2009
	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-6		AII-91
Fecal Coliform	AII-7	AII-31	AII-92
<i>Escherichia coli</i>	AII-7		AII-93
Total Calcium	AII-7		AII-94
Total Magnesium	AII-7		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-8		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-9	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-10	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-11	AII-45	AII-111

TABLE LOCATOR BY PARAMETER IN APPENDIX AII (Continued)

Parameter	Sample Mean during 2009	Violation History through 2009	Mean History through 2009
	Page	Page	Page
Total Iron	AII-12	AII-46	AII-112
Total Lead	AII-12	AII-47	AII-113
Total Nickel	AII-12	AII-48	AII-114
Total Manganese	AII-12	AII-49	AII-115
Total Mercury*		AII-50	
Total Mercury	AII-13	AII-51	AII-116
Low-Level Mercury	AII-13		AII-117
Total Zinc	AII-13	AII-52	AII-118
Total Selenium	AII-13	AII-53	AII-119
Soluble Calcium	AII-14		AII-120
Soluble Magnesium	AII-14		AII-121
Soluble Silver	AII-14		AII-122
Soluble Arsenic	AII-14	AII-54	AII-123
Soluble Barium	AII-15		AII-124
Soluble Boron	AII-15		AII-125
Soluble Cadmium	AII-15	AII-55	AII-126
Soluble Copper	AII-15	AII-56	AII-127
Soluble Chromium	AII-16	AII-57	AII-128
Soluble Iron	AII-16	AII-58	AII-129
Soluble Lead	AII-16	AII-59	AII-130
Soluble Nickel	AII-16	AII-60	AII-131
Soluble Manganese	AII-17		AII-132
Soluble Mercury		AII-61	AII-133
Soluble Zinc	AII-17	AII-62	AII-134
Soluble Selenium	AII-17		AII-135

*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 2009. In addition, the District compared these data with data for 2008.

Compliance with Water Quality Standards During 2009

General Use Waters. Thirty out of 67 water quality parameters assayed were subject to IPCB water quality standards. They were dissolved oxygen (DO), 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, and soluble zinc. Two parameters (benzene and total mercury) were subject to IPCB Human Health Standards. Water samples were collected from locations throughout the five segments of the 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 DuPage River System, and the Fox River System (Poplar Creek).

Twenty-three water quality parameters were in total compliance with the standards in all river systems. They were temperature, ammonium nitrogen, phenols, weak acid dissociable cyanide, 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, and soluble zinc. Benzene and total mercury were in total compliance with the Human Health Standard in all river systems.

Of the remaining seven parameters, five parameters (DO, pH, chloride, sulfate, and fluoride) had compliance rates greater than 91.0 percent in all River Systems. Total dissolved solids had compliance rates of 85.7, 88.0, and 97.7 percent, respectively, in the Chicago, Calumet, and Des Plaines River Systems. Fecal coliform had the lowest compliance rate in the range of 52.2 to 60.8 percent in all river systems.

A comparison of 2009 data with 2008 data indicated that there was no significant difference between 2009 and 2008 compliance rates with water quality standards except for DO, chloride, and total dissolved solids. In the Chicago River System, the compliance rate for DO significantly increased from 84.7 percent in 2008 to 97.0 percent in 2009. In the Calumet River System, the compliance rate for DO significantly increased from 82.7 percent in 2008 to 96.7 percent in 2009, and the compliance rate for total dissolved solids significantly increased from 74.0 percent in 2008 to 88.0 percent in 2009. In the Des Plaines River System, the compliance rate for DO significantly increased from 93.5 percent in 2008 to 97.8 percent in 2009; the compliance rate for chloride significantly increased from 82.5 percent in 2008 to 98.7 percent in 2009; and the compliance rate for total dissolved solids significantly increased from 74.6 percent in 2008 to 97.7 percent in 2009.

Comparison of data for Human Health Standards indicated that there was no significant difference between 2009 and 2008 compliance rates of all parameters in the three river systems.

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 2009 were subject to IPCB standards. They were DO; 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.

Nineteen parameters were in complete compliance with the IPCB standards in the Chicago and Calumet River Systems in 2009. They were temperature, pH, un-ionized ammonia, phenols, total cyanide, fluoride, total silver, total arsenic, total barium, total cadmium, total copper, total hexavalent chromium, total lead, total nickel, total manganese, total mercury, total zinc, total selenium, and soluble iron.

The remaining four parameters (DO; total dissolved solids; fats, oils, and greases; and total iron) had compliance rates greater than 97.0 percent in both river systems.

A comparison of 2009 data with 2008 data indicated that there was no significant difference between 2009 and 2008 compliance rates with water quality standards except for DO. In the Calumet River System, the compliance rate for DO significantly increased from 88.9 percent in 2008 to 98.5 percent in 2009.

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 2008. Complete tabulations of waterway surveillance data collected by the District are available for the years 1970 through 2009.

It should be noted that the Illinois Environmental Protection Agency 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 with and support 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 runoff.
- 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 District's 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.

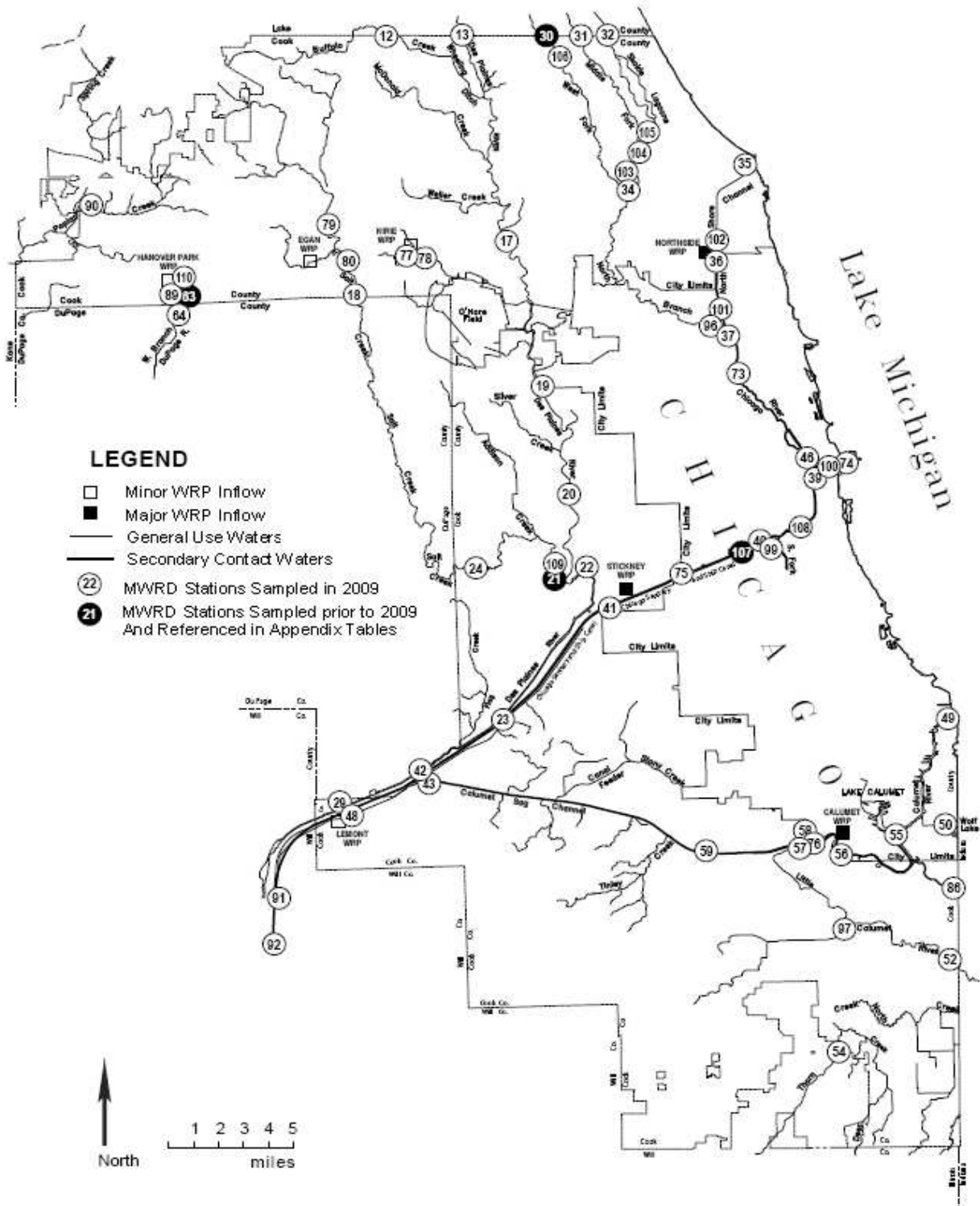
Water Use Designations. IPCB Regulations, Section 303.201, specify that "except as otherwise specifically provided, all waters of the State must meet the General Use standards for Subpart B of Part 302." Section 303.441 delineates those waters which do not qualify for General Use but "... are designated as secondary contact and indigenous aquatic life waters [Secondary Contact Waters] and must meet the water quality standards of 35 Ill. Adm. Code 302, Subpart D." 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 2009 and sampling stations are listed in Tables AI-1 and AI-2, respectively.

Summary water quality results for 2009 are listed in Appendix AII. 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 2009 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 AII) were designed to present the mean values of various parameters for 1993 through 2008, with the 2009 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 WRP are significantly different.

Water Sampling

Surface water grab samples were taken at 59 locations during 2009. Their locations, as well as the locations of recently discontinued sampling stations, are as shown in Figure 1. The samples were taken at 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 2009 is shown in Table 1. Note that samples taken in the West Branch of the DuPage River (upstream and downstream of the Hanover Park Water Reclamation Plant (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 2009 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 four locations in the DuPage and Fox River Systems. The waterways system sampling station numbers

TABLE 1: TOTAL NUMBER OF WATERWAYS (BRIDGE RUNS) SAMPLES COLLECTED MONTHLY DURING 2009

Month	River System		
	Chicago	Calumet	Des Plaines
January	19	2	17
February	26	9	8
March	30	13	17
April	27	12	20
May	29	12	20
June	30	12	20
July	28	11	19
August	30	12	18
September	28	12	18
October	28	11	19
November	29	12	20
December	24	NS	18

NS = No sample was taken at any location of this river system.

correspond to the numbers on the map shown in Figure 1. The complete waterways sampling stations directory of all 107 stations, of which the 59 sampling locations in 2009 are a subset, is listed in Table AI-2, Appendix AI.

Water Assays and Water Quality Criteria

The District's laboratories performed 67 types of analyses on water samples taken in District waterways during 2009. 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. The General Use Water Quality Standard for DO was revised effective December 2008.

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 four water quality parameters (DO, fecal coliform, temperature, and total chromium) which require interpretation in light of excessive cost of sample collection and sample assay techniques at a given frequency. These costs are related to the excessive manpower requirements and cost of performing continuous DO measurements. The interpretations of IPCB standards for DO, temperature, and fecal coliform are given in Table 3. In the case of DO, 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 DO 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 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 has assayed for total chromium, total hexavalent chromium, and soluble chromium. The standard currently contains a limit for total hexavalent

TABLE 2: WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING
WATER QUALITY STANDARD IN 2009¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
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
Total Nonylphenols	NAS		NAS	
Sulfate	500 mg/L	302.208	NAS	
Fats, Oils, and Greases	NAS		15 mg/L	302.407
Total Phosphorus	NAS		NAS	

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2009¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
Total Cyanide	NAS		0.1 mg/L	302.407
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	302.209	NAS	
	cfu/100mL			
<i>Escherichia coli</i>	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	302.658	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
Total Copper	NAS		1 mg/L	302.407
Total Chromium	NAS		NAS	

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2009¹

Parameter	Water Use Designations			
	General Use ²		Secondary Contact ³	
	Standard	Section ⁴	Standard	Section ⁴
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	302.658	NAS	
Total Mercury	NAS		0.5 µg/L	302.407
Low-Level Mercury	NAS		NAS	
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 Zinc	mg/L ¹⁴	302.208	NAS	

TABLE 2 (Continued): WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING WATER QUALITY STANDARD IN 2009¹

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 is 5.0 mg/L in March through July and 3.5 mg/L in other months.

⁶Calumet-Sag Channel only.

⁷The upper value cannot be exceeded during more than 1% of the hours in the preceding 12-month period. The lower value cannot be exceeded at 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 WATER QUALITY
STANDARDS AND CORRESPONDING METROPOLITAN WATER RECLAMATION
DISTRICT OF GREATER CHICAGO INTERPRETATIONS FOR 2009

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
	Secondary Contact Waters	≥ 4.0 mg/L anytime	
	(Calumet-Sag Channel effective 5/19/88)	≥ 3.0 mg/L anytime	≥ 3.0 mg/L anytime
2. Temperature	Secondary Contact Waters	≤ 34.0 °C, 95% of the time	≤ 37.8 °C
		≤ 37.8 °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 and for soluble trivalent chromium. The District applies the analysis of soluble chromium to the soluble trivalent chromium standard.

Starting in January 2003, the IPCB also dropped the water quality standards for 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 have been 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 2009 is shown in [Table 4](#). Of the five river systems sampled during 2009, three (Des Plaines, DuPage, and Fox) lie entirely within the General Use classification. The General Use Waters in the Chicago and Calumet River Systems mostly consist 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 DuPage 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 (Station 64) of the Hanover Park WRP treated effluent discharge into the West Branch of the DuPage River. The frequency of sampling during 2009 was once per month at most locations. [Table 4](#) shows the frequency of sampling at all General Use locations in 2009.

River System Compliance Data

In the General Use Waters, 67 parameters were analyzed in 2009, of which 30 parameters were covered by the State of Illinois Water Quality Standards. Two parameters (benzene and total mercury) were subject to 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 23 parameters which were in 100 percent compliance in all river systems were temperature, ammonium nitrogen, phenols, weak acid dissociable cyanide, 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, and soluble zinc.

Two parameters, benzene and total mercury, were in total compliance due to the Human Health Standard in all river systems.

The seven water quality parameters which were in less than complete compliance in 2009 are shown in [Table 5](#). The percent compliance for these parameters in each river system is also presented.

Soluble mercury was not assayed in 2008 and 2009 in all three River Systems. The compliance rates for remaining water quality parameters with the General Use Standards and compliance rates for two 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. Since soluble mercury was not assayed, it is excluded in [Figure 2](#) through [Figure 4](#).

TABLE 4: LOCATIONS SAMPLED AND ANNUAL SAMPLING
FREQUENCIES OF GENERAL USE WATERS IN 2009

Map No. ¹	Station Name	Annual No. of Samples
<u>Chicago River System</u>		
106	Dundee Road, West Fork North Branch Chicago River	11
103	Golf Road, West Fork North Branch Chicago River	11
31	Lake-Cook Road, Middle Fork North Branch	10
104	Glenview Road, North Branch Chicago River	12
32	Lake-Cook Road, Skokie River	10
105	Frontage Road, Skokie River	12
34	Dempster Street, North Branch Chicago River	12
96	Albany Avenue, North Branch Chicago River	12
35	Central Street, North Shore Channel	9
102	Oakton Street, North Shore Channel	11
74	Lake Shore Drive, Chicago River	9
100	Wells Street, Chicago River	11
		<u>130</u>
<u>Calumet River System</u>		
49	Ewing Avenue, Calumet River	7
50	Burnham Avenue, Wolf Lake	10
55	130th Street, Calumet River	9
52	Wentworth Avenue, Little Calumet River	10
54	Joe Orr Road, Thorn Creek	9
97	170th Street, Thorn Creek	9
57	Ashland Avenue, Little Calumet River	9
		<u>63</u>
<u>Des Plaines River System</u>		
79	Higgins Road, Salt Creek	8
80	Arlington Heights Road, Salt Creek	12
18	Devon Avenue, Salt Creek	11
24	Wolf Road, Salt Creek	12
109	Brookfield Avenue, Salt Creek	11
77	Elmhurst Road, Higgins Creek	4
78	Wille Road, Higgins Creek	12
12	Lake-Cook Road, Buffalo Creek	9
13	Lake-Cook Road, Des Plaines River	12
17	Oakton Street, Des Plaines River	11

TABLE 4 (Continued): LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF GENERAL USE WATERS IN 2009

Map No. ¹	Station Name	Annual No. of Samples
<u>Des Plaines River System (Continued)</u>		
19	Belmont Avenue, Des Plaines River	12
20	Roosevelt Road, Des Plaines River	11
22	Ogden Avenue, Des Plaines River	11
23	Willow Springs Road, Des Plaines River	11
29	Stephen Street, Des Plaines River	11
91	Material Service Road, Des Plaines River	12
		<u>170</u>
<u>DuPage 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	9
		<u>33</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 2009

Parameter	Estimated Percent Compliance ¹		
	Chicago	Calumet	Des Plaines
Dissolved Oxygen	97.0	96.7	97.8
pH	100.0	100.0	98.6
Chloride	91.8	100.0	98.7
Total Dissolved Solids	85.7	88.0	97.7
Sulfate	100.0	92.3	100.0
Fluoride	100.0	95.2	100.0
Fecal Coliform	52.2	53.3	60.8

¹Based on the total number of samples in compliance divided by the total number of samples collected, multiplied by 100.

²Due to Human Health Standard.

FIGURE 2: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2008 AND 2009

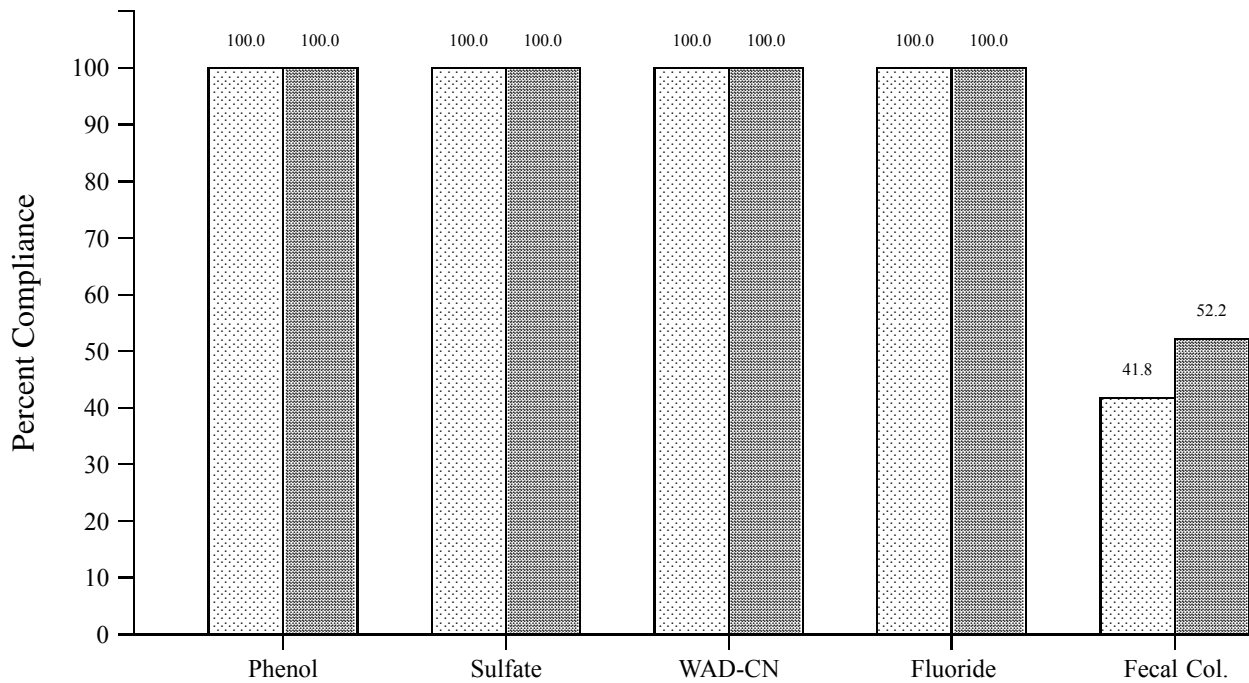
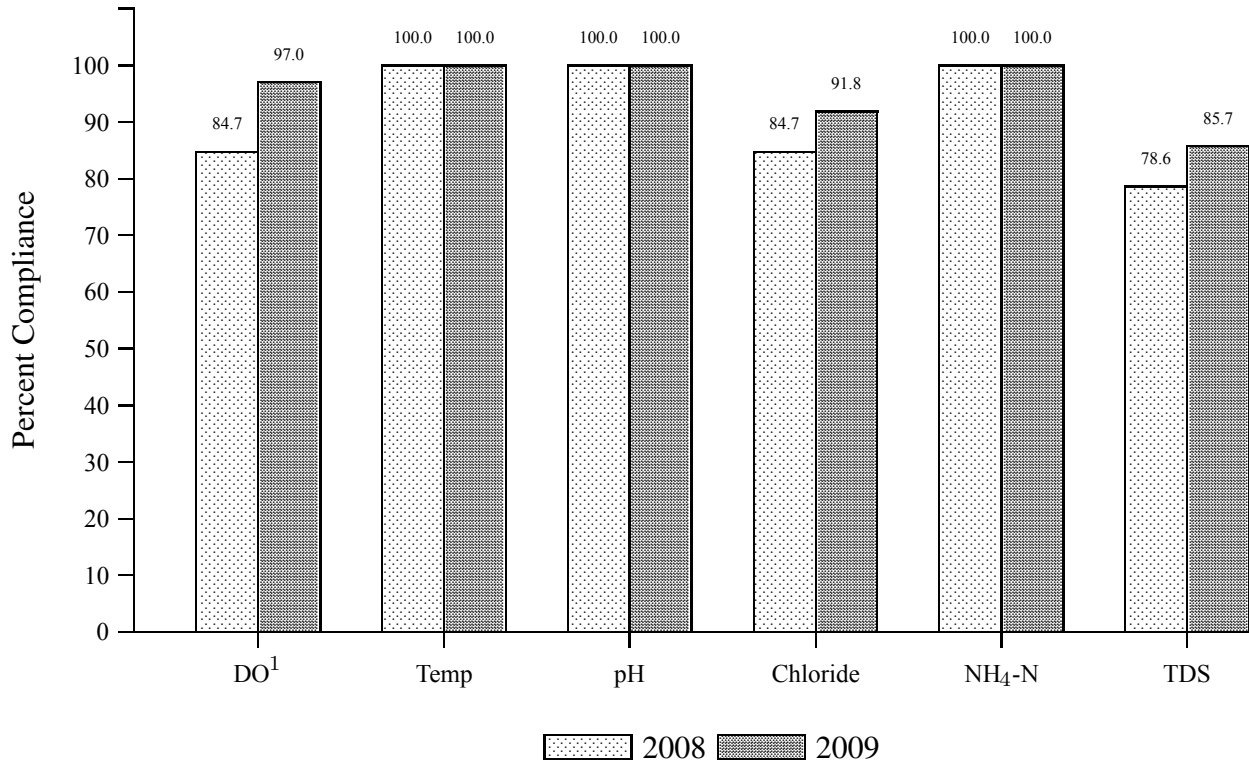


FIGURE 2 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2008 AND 2009

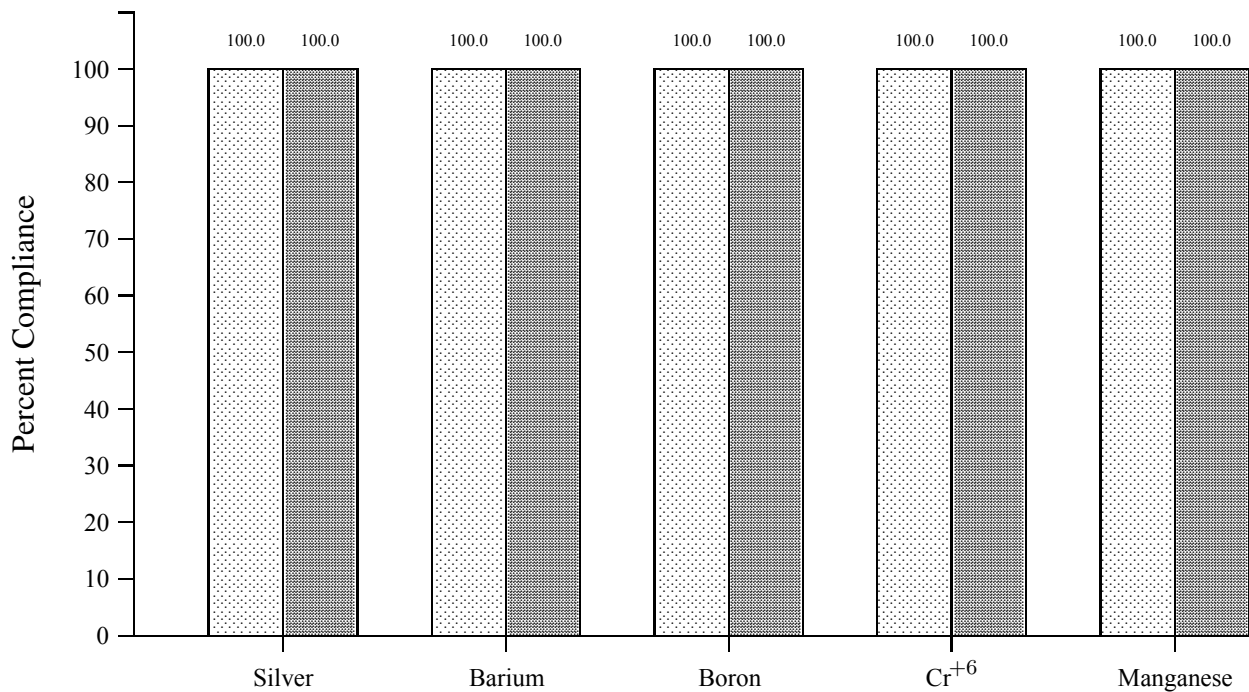
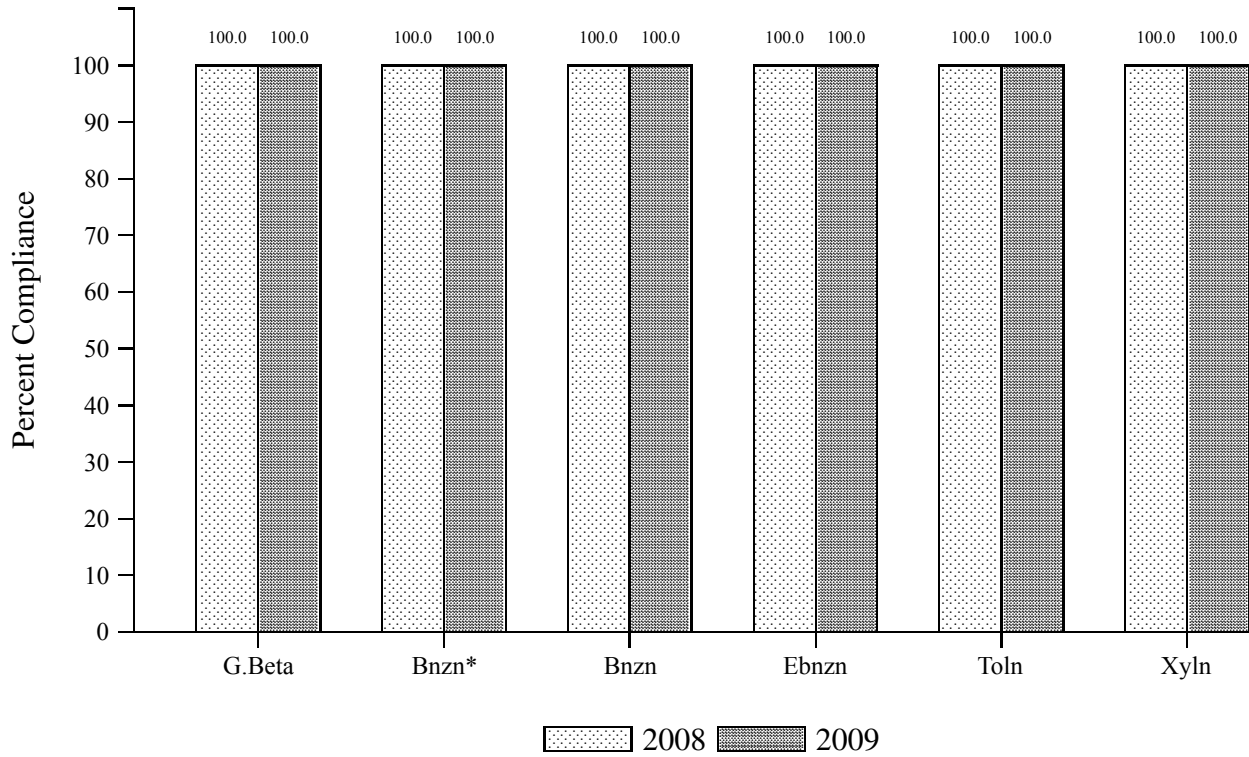
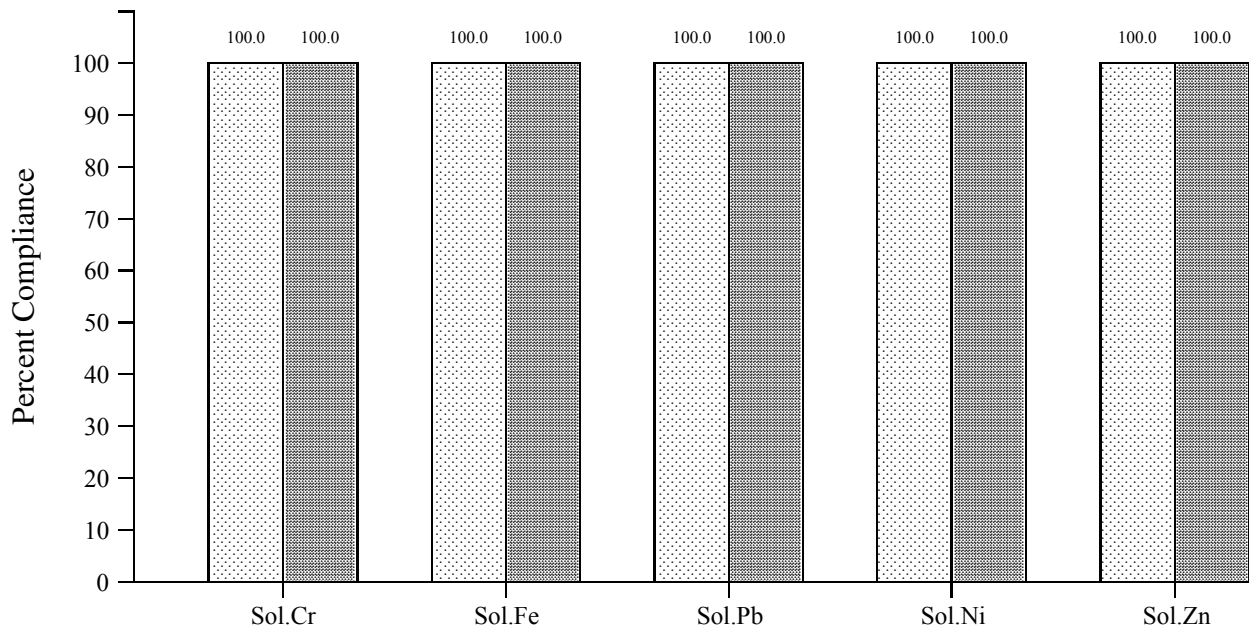
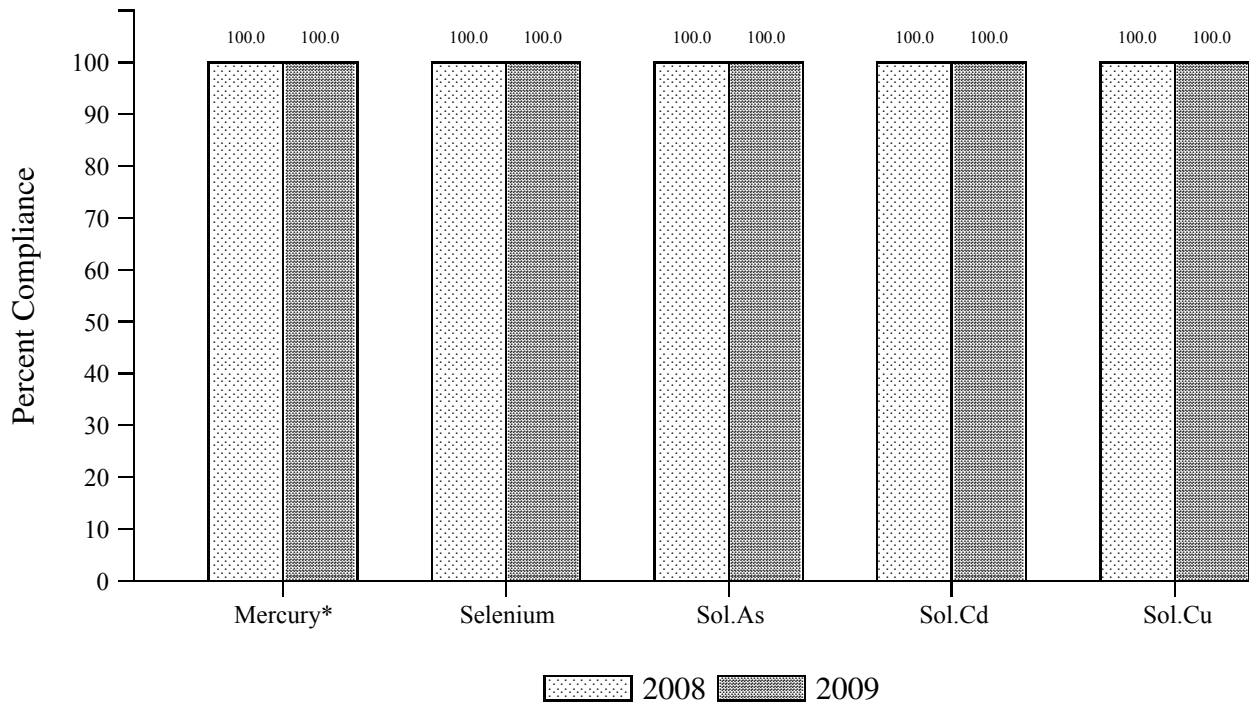


FIGURE 2 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CHICAGO RIVER IN 2008 AND 2009



¹DO standard for general use waters is 5.0 mg/L from March through July, otherwise 3.5 mg/L.

*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 2008 AND 2009

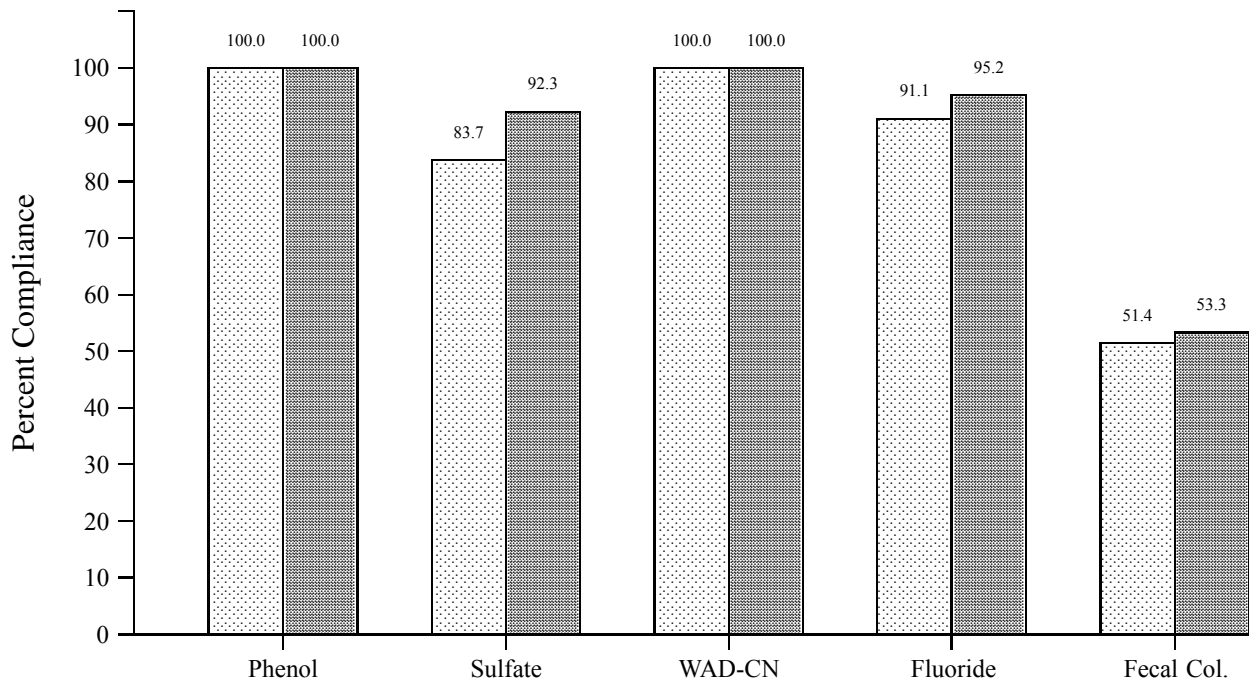
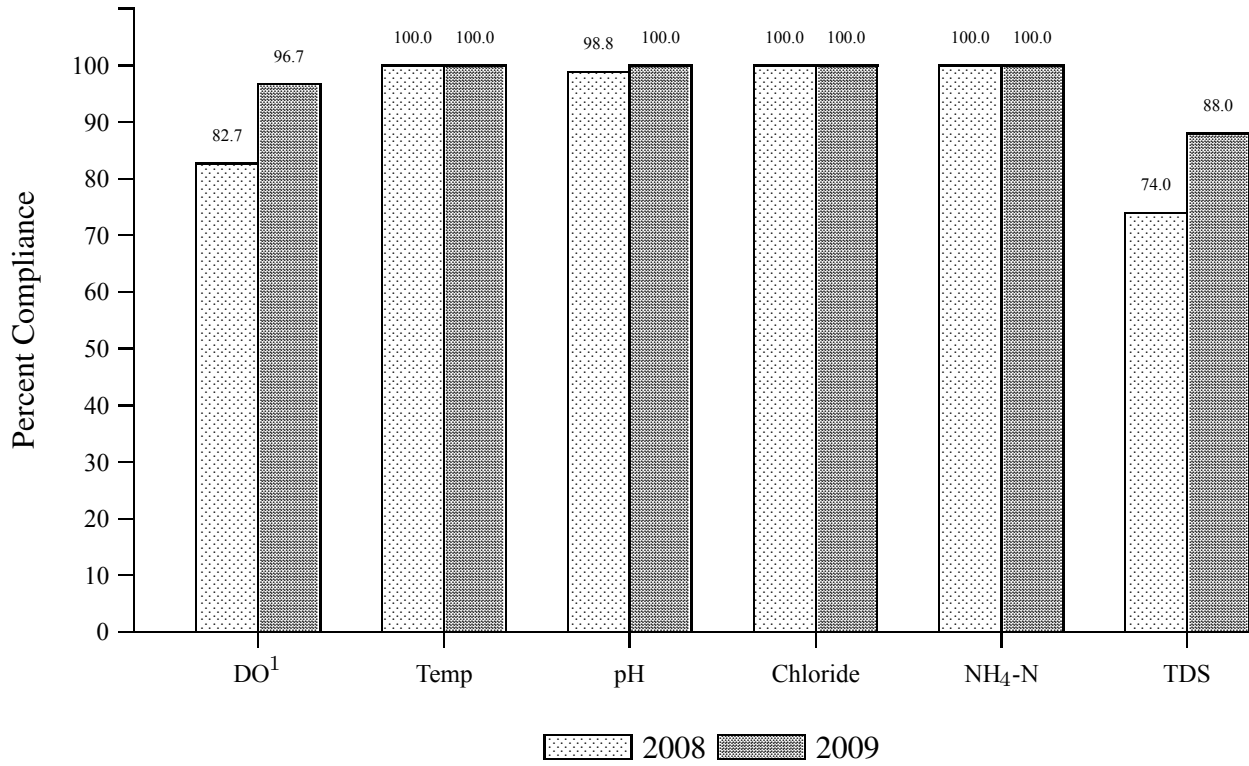


FIGURE 3 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2008 AND 2009

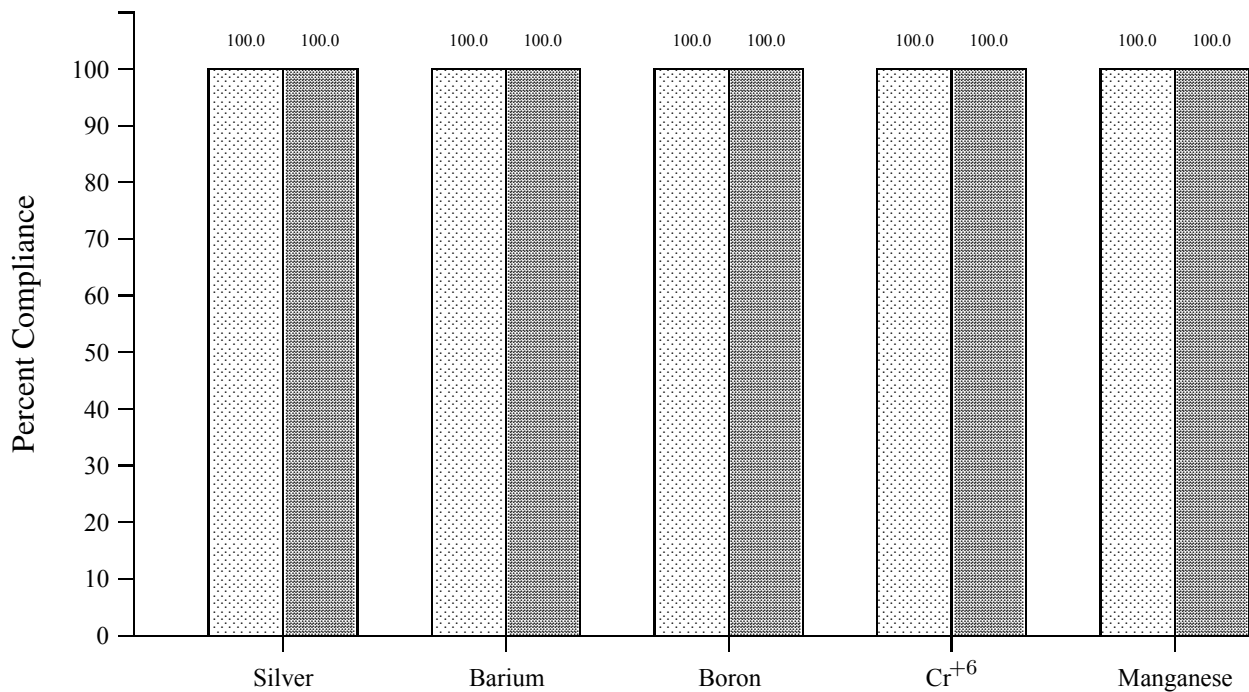
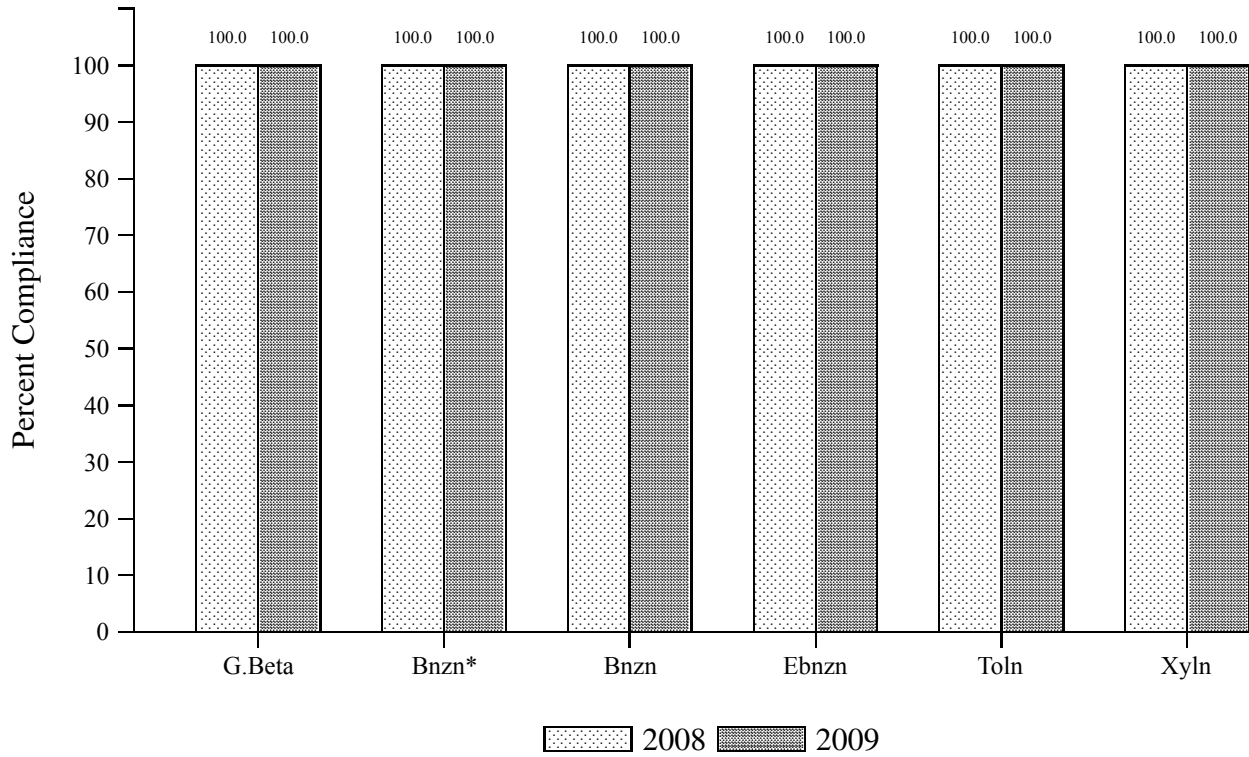
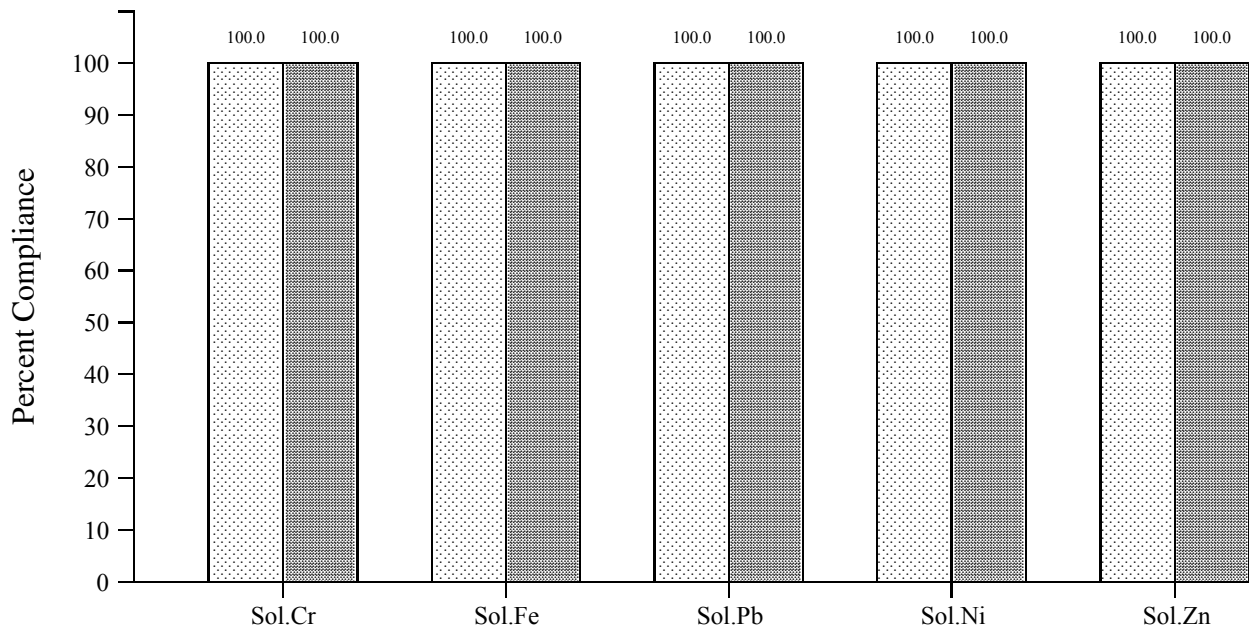
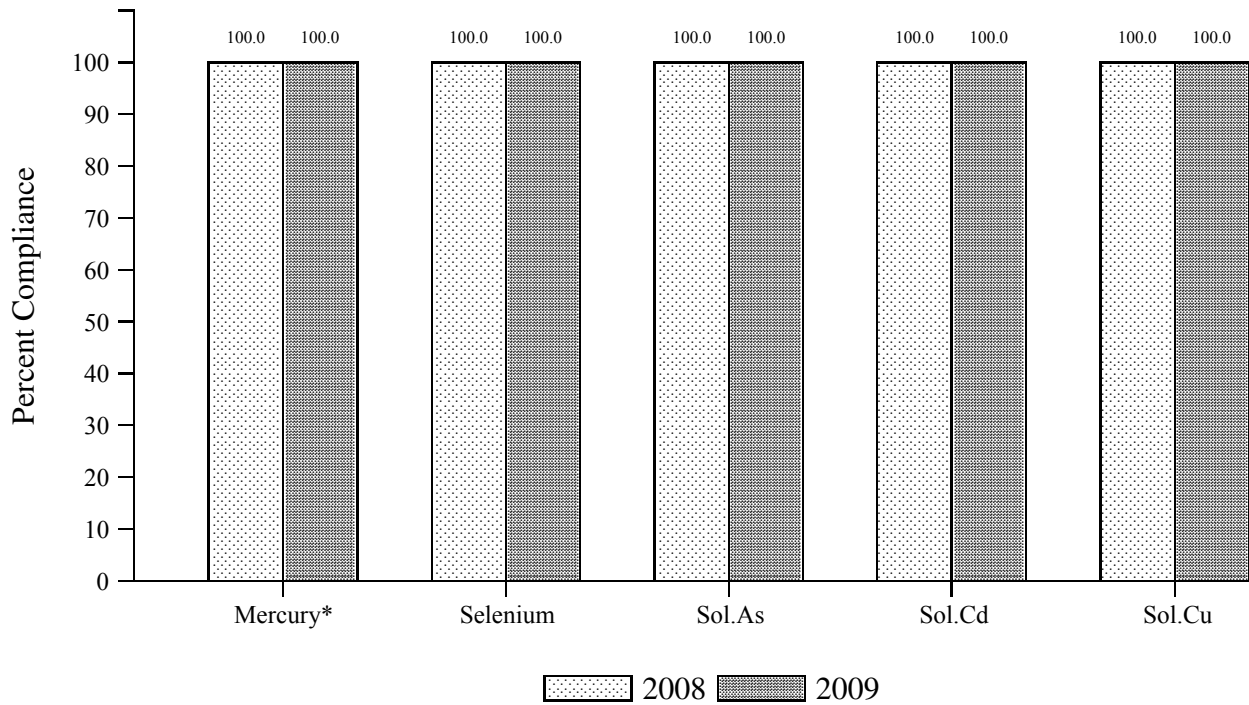


FIGURE 3 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE CALUMET RIVER IN 2008 AND 2009



¹DO standard for general use waters is 5.0 mg/L from March through July, otherwise 3.5 mg/L.

*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 2008 AND 2009

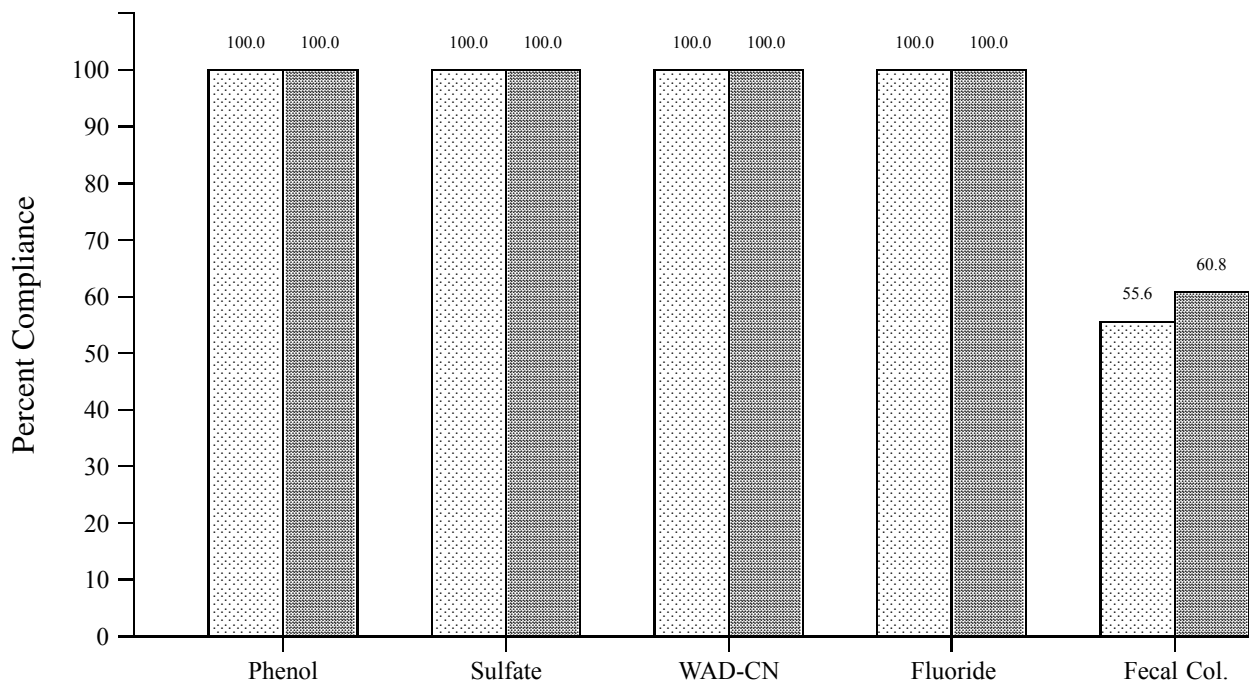
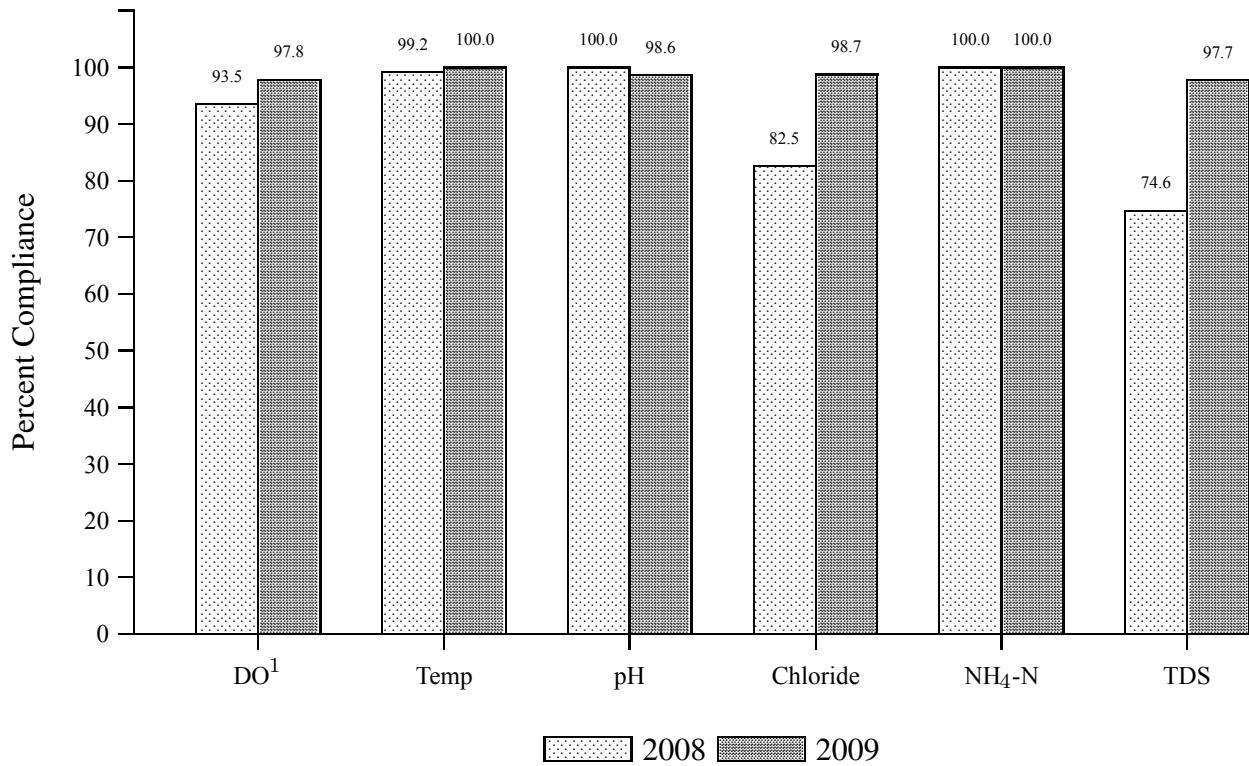


FIGURE 4 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2008 AND 2009

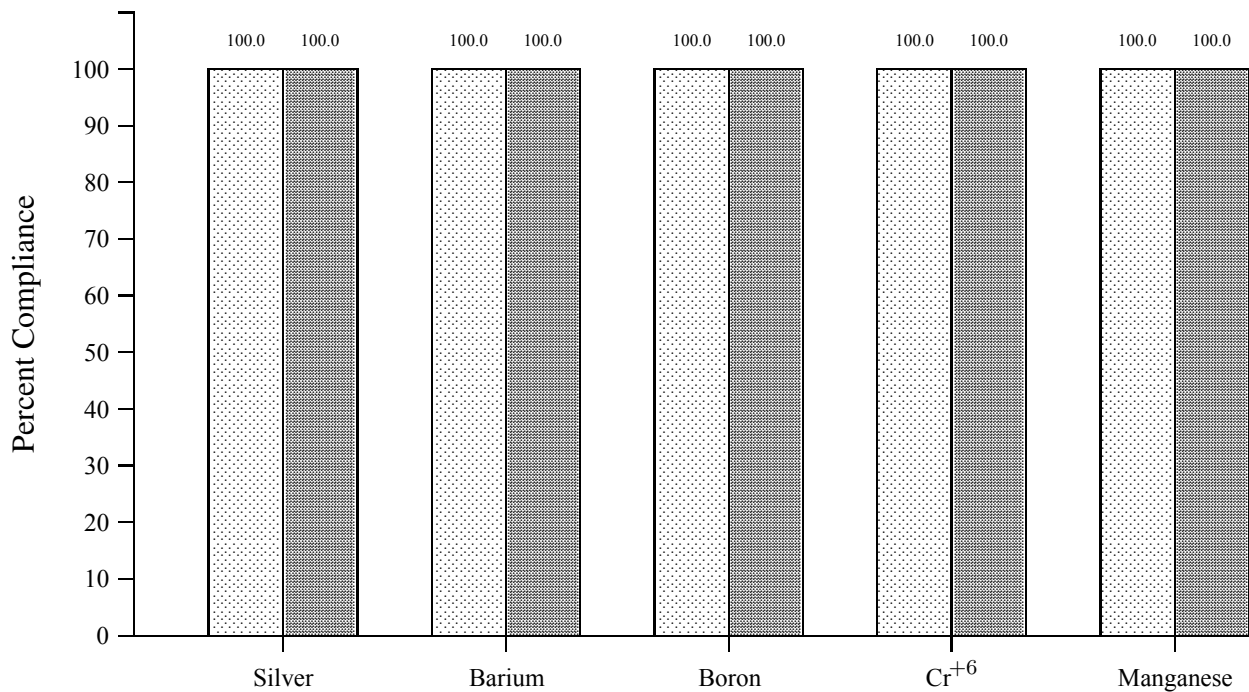
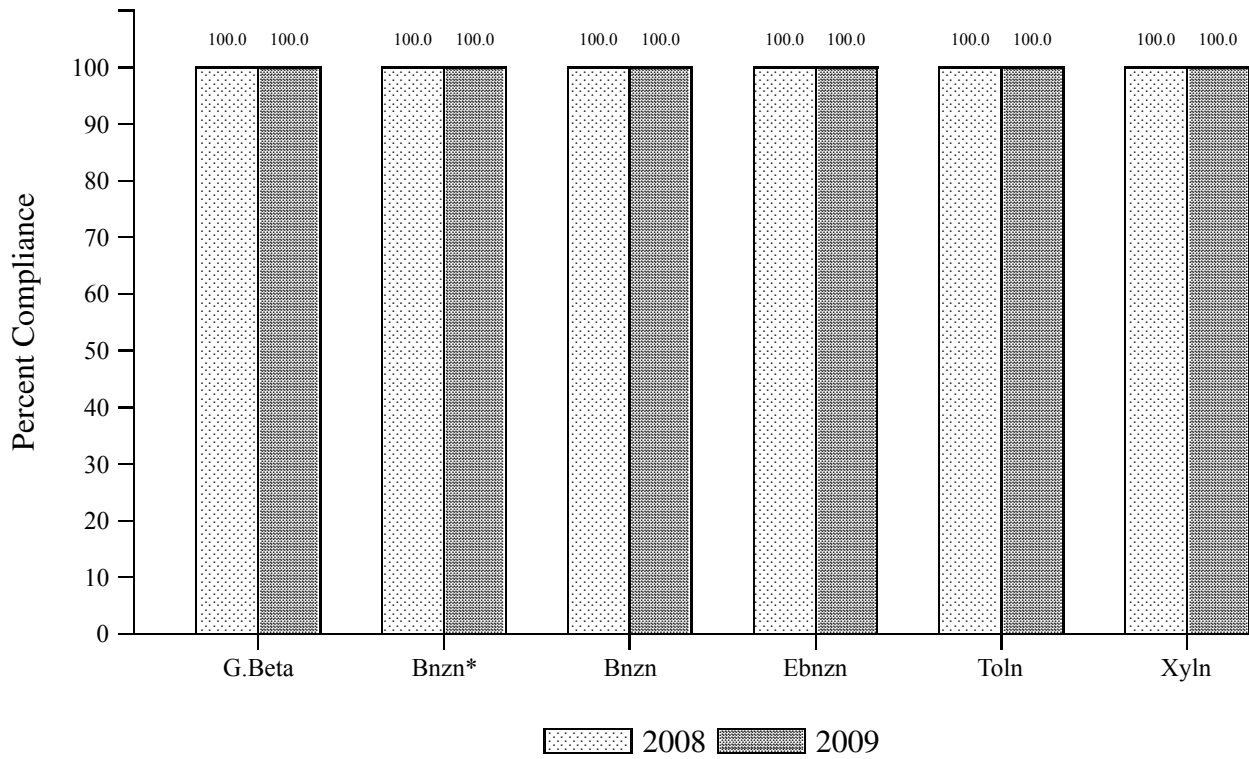
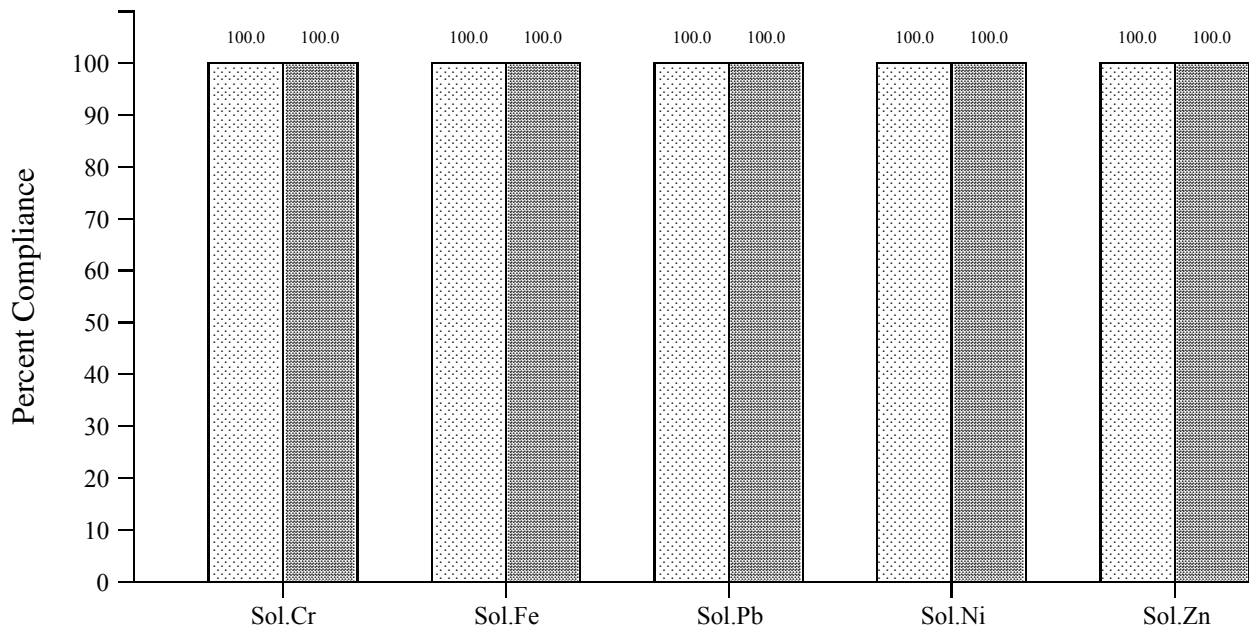
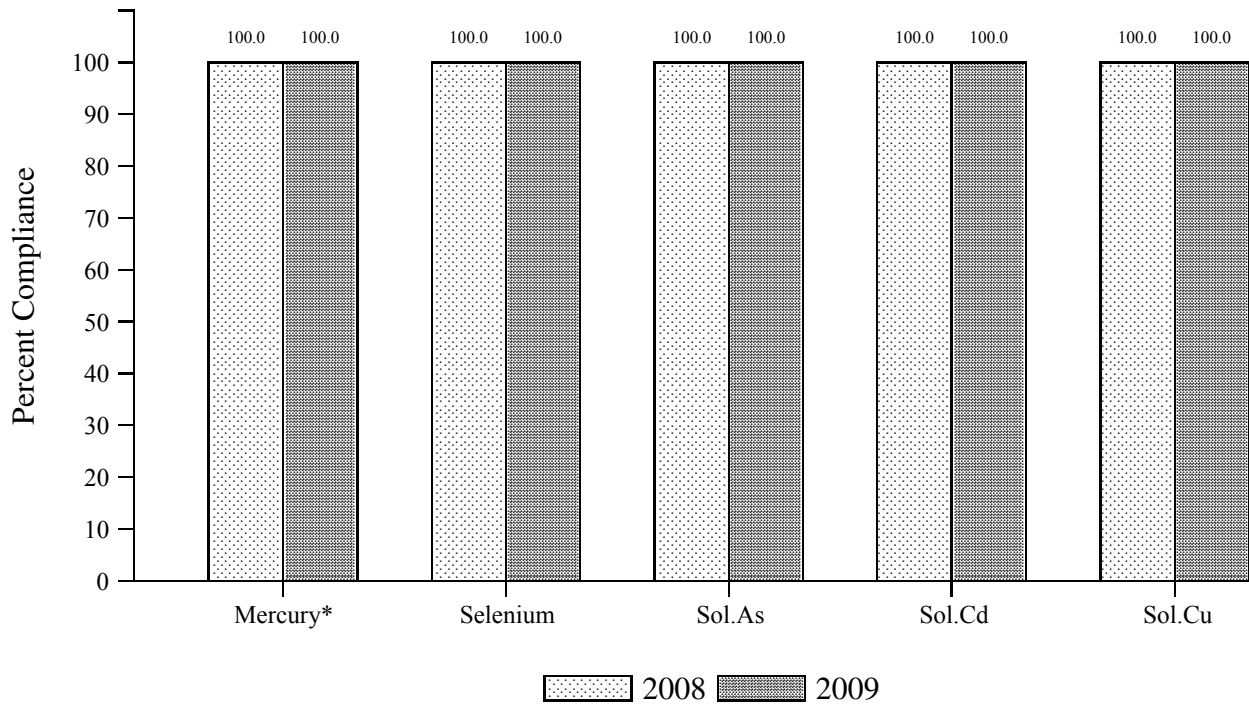


FIGURE 4 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR GENERAL USE WATER SECTION OF THE DES PLAINES RIVER IN 2008 AND 2009



¹DO standard for general use waters is 5.0 mg/L from March through July, otherwise 3.5 mg/L.

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

Chicago River System. There are 13 sampling 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 2009.

In addition to the 23 parameters listed above, pH, sulfate, and fluoride were also in total compliance. Violations of the pertinent General Use Standards were observed for the remaining four parameters (DO, chloride, total dissolved solids, and fecal coliform). There was no violation due to Human Health Standard. Detailed violation records for the non-compliant parameters are shown in [Table 6](#).

A comparison of 2009 data with 2008 data indicated that there was no significant difference between 2009 and 2008 compliance rates except for DO. In the Chicago River System, the compliance rate for DO significantly increased from 84.7 percent in 2008 to 97.0 percent in 2009.

Calumet River System. There are seven sampling locations (49, 50, 55, 52, 54, 97, and 57) in the General Use section of the river system. In addition to the 23 parameters listed above, pH and chloride were also in total compliance. Detailed violation records for the noncompliant parameters are shown in [Table 7](#).

A comparison of 2009 data with 2008 data indicated that there was no significant difference between 2009 and 2008 compliance rates except for DO and total dissolved solids. In the Calumet River System, the compliance rate for DO significantly increased from 82.7 percent in 2008 to 96.7 percent in 2009, and the compliance rate for total dissolved solids significantly increased from 74.0 percent in 2008 to 88.0 percent in 2009.

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 DuPage River and one sampling location (90) on Poplar Creek are included in this sampling program. In addition to the 23 parameters listed above, sulfate and fluoride were also in total compliance. Detailed violation records for the noncompliant parameters are shown in [Table 8](#).

A comparison of 2009 data with 2008 data indicated that there was no significant difference between 2009 and 2008 compliance rates except for DO, chloride, and total dissolved solids. In the Des Plaines River System, the compliance rate for DO significantly increased from 93.5 percent in 2008 to 97.8 percent in 2009; the compliance rate for chloride significantly increased from 82.5 percent in 2008 to 98.7 percent in 2009; and the compliance rate for total dissolved solids significantly increased from 74.6 percent in 2008 to 97.7 percent in 2009.

TABLE 6: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE CHICAGO RIVER SYSTEM IN 2009

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
DO	106	1	Apr
	103	1	Jul
	104	1	Jul
	35	1	Nov
		4	Total violations of Dissolved Oxygen (DO)
Cl	106	4	Jan, Feb, Apr, and Dec
	103	3	Feb, Apr, and Dec
	96	1	Jan
		8	Total violations of Chloride (Cl)
TDS	106	5	Jan, Feb, Apr, May, and Dec
	103	3	Feb, Apr, and Dec
	104	1	Feb
	105	1	Feb
	34	2	Jan and Feb
	96	2	Jan and Feb
		14	Total violations of Total Dissolved Solids (TDS)
FC	106	11	Jan, Feb, Mar, Apr, May, Jun, Aug, Sep, Oct, Nov, and Dec
	103	8	Feb, Mar, Apr, May, Jun, Jul, Oct, and Dec
	31	5	Jun, Jul, Aug, Sep, and Dec
	104	6	Jan, Mar, Jun, Jul, Aug, and Dec
	32	6	Apr, May, Jun, Aug, Nov, and Dec
	105	3	Jun, Jul, and Aug
	34	6	Feb, Mar, May, Jun, Aug, and Dec
	96	7	Feb, Mar, Jun, Jul, Aug, Sep, and Dec
	35	1	Mar
	102	4	Feb, Mar, Jun, and Dec
	74	3	Jun, Aug, and Sep
	100	2	Mar and Dec
		62	Total violations of Fecal Coliform (FC)

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

TABLE 7: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE CALUMET RIVER SYSTEM IN 2009

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
DO	52	1	Jul
	57	1	May
		<u>2</u>	Total violations of Dissolved Oxygen (DO)
TDS	54	5	Feb, Mar, Aug, Sep, and Nov
	97	3	Mar, Sep, and Nov
		<u>8</u>	Total violations of Total Dissolved Solids (TDS)
SO ₄	54	4	Feb, Aug, Sep, and Nov
	97	1	Sep
		<u>5</u>	Total violations of Sulfate (SO₄)
F	52	2	Jul and Aug
	57	1	Jul
		<u>3</u>	Total violations of Fluoride (F)
FC	52	10	Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, and Nov
	54	9	Feb, Mar, Apr, May, Jun, Aug, Sep, Oct, and Nov
	97	6	Feb, Apr, May, Jun, Aug, and Sep
	57	4	Apr, Jun, Sep, and Oct
		<u>29</u>	Total violations of Fecal Coliform (FC)

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

TABLE 8: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
THE DES PLAINES RIVER SYSTEM IN 2009

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
DO	80	1	May
	24	1	Jun
	91	1	Jun
	110	2	Jul and Aug
		<u>5</u>	Total violations of Dissolved Oxygen (DO)
pH	80	1	Mar
	29	1	Aug
	91	1	Aug
		<u>3</u>	Total violations of pH (pH)
Cl	77	1	Apr
	78	1	Jan
	110	1	Apr
		<u>3</u>	Total violations of Chloride (Cl)
TDS	24	1	Jan
	109	1	Jan
	77	1	Apr
	78	1	Jan
	110	1	Apr
		<u>5</u>	Total violations of Total Dissolved Solids (TDS)
FC	90	2	Jun and Sep
	89	7	Jan, Feb, Mar, Apr, Jun, Nov, and Dec
	64	7	Jan, Feb, Mar, Apr, Jun, Nov, and Dec
	79	1	Nov
	80	3	Apr, Sep, and Dec
	18	5	Apr, Jun, Jul, Aug, and Dec
	24	7	Jan, Feb, Mar, Apr, Jun, Nov, and Dec
	109	7	Jan, Mar, Apr, Jun, Jul, Aug, and Nov
	77	3	Apr, May, and Jun
	78	7	Feb, Mar, Apr, Jun, Jul, Nov, and Dec
	12	2	Jun and Jul
	13	2	Feb and Mar

TABLE 8 (Continued): NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
 GENERAL USE LIMITS IN THE GENERAL USE WATERS OF
 THE DES PLAINES RIVER SYSTEM IN 2009

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
FC (Continued)	17	2	Mar and Jun
	19	4	Feb, Mar, Jun, and Nov
	20	6	Mar, Apr, Jun, Aug, Sep, and Oct
	22	3	Mar, Jun, and Jul
	23	2	Mar and Jul
	29	1	Mar
	91	1	Mar
	110	8	May, Jun, Jul, Aug, Sep, Oct, Nov, and Dec
	80	Total violations of Fecal Coliform (FC)	

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

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 2009 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 2009.

River System Compliance Data

In the Secondary Contact Waters, 67 parameters were analyzed in 2009, of which 23 parameters were subject to IPCB Water Quality Standards. They were DO; 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 2009 in both the Chicago and Calumet River Systems. Nineteen water quality parameters were in complete compliance in both of these river systems. They were temperature, pH, un-ionized ammonia, phenols, total cyanide, fluoride, total silver, total arsenic, total barium, total cadmium, total copper, total hexavalent chromium, total lead, total nickel, total manganese, total mercury, total zinc, total selenium, and soluble iron.

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

The four water quality parameters which were not in complete compliance in both of the river systems are listed in Table 10 with observed percent compliance.

Chicago River System. Violations of the pertinent Secondary Contact Standards for the remaining three parameters (DO, total dissolved solids, and total iron) occurred in at least one of the locations sampled. The compliance rates of these three parameters ranged from 97.0 to 98.8 percent. Detailed violation records for the non-compliant parameters are shown in Table 11.

A comparison of 2009 data with 2008 data indicated that there was no significant difference between 2009 and 2008 compliance rates for all parameters in this river system.

TABLE 9: LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF SECONDARY CONTACT WATERS IN 2009

Map No. ¹	Station Name	Annual No. of Samples
<u>Chicago River System</u>		
36	Touhy Avenue, North Shore Channel	10
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	11
108	Loomis Street, South Branch Chicago River	12
99	Archer Avenue, South Fork South Branch Chicago River	11
40	Damen Avenue, Chicago Sanitary & Ship Canal	11
75	Cicero Avenue, Chicago Sanitary & Ship Canal	12
41	Harlem Avenue, Chicago Sanitary & Ship Canal	12
42	Route 83, Chicago Sanitary & Ship Canal	10
48	Stephen Street, Chicago Sanitary & Ship Canal	10
92	Lockport Forebay, Chicago Sanitary & Ship Canal	51
		<u>198</u>
<u>Calumet River System</u>		
86	Burnham Avenue, Grand Calumet River	5
56	Indiana Avenue, Little Calumet River	8
76	Halsted Street, Little Calumet River	11
58	Ashland Avenue, Calumet-Sag Channel	11
59	Cicero Avenue, Calumet-Sag Channel	10
43	Route 83, Calumet-Sag Channel	10
		<u>55</u>

¹Refer to Figure 1.

FIGURE 5: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CHICAGO RIVER IN 2008 AND 2009

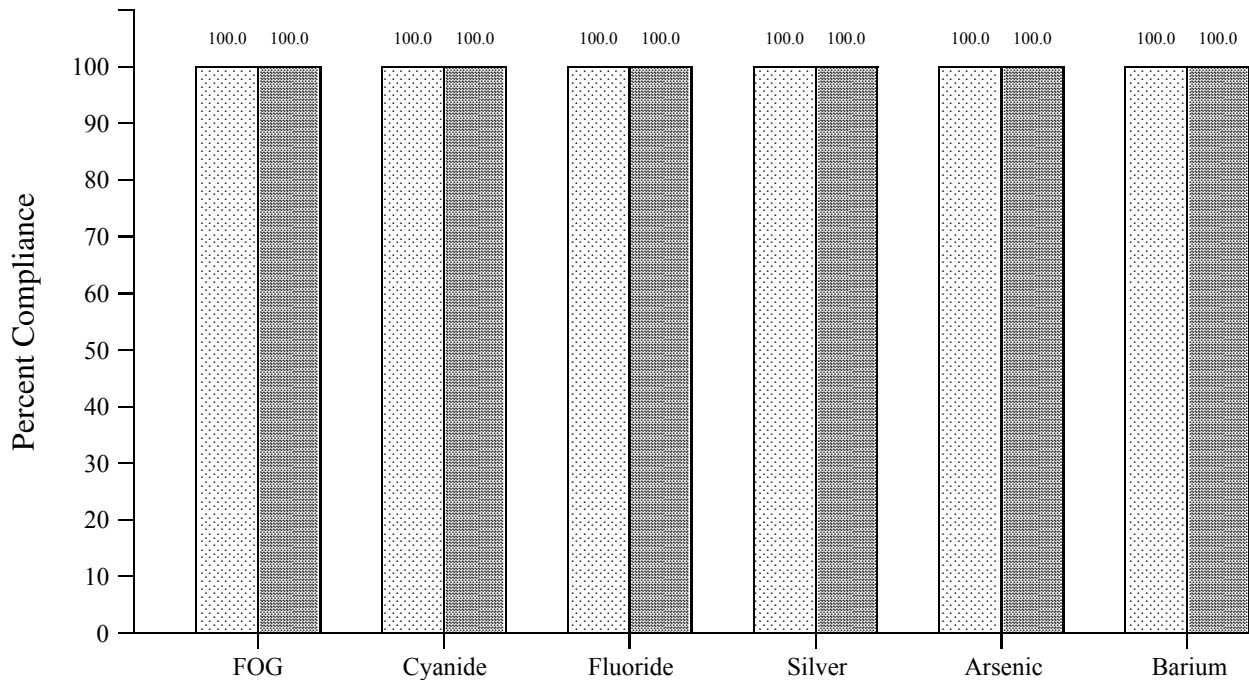
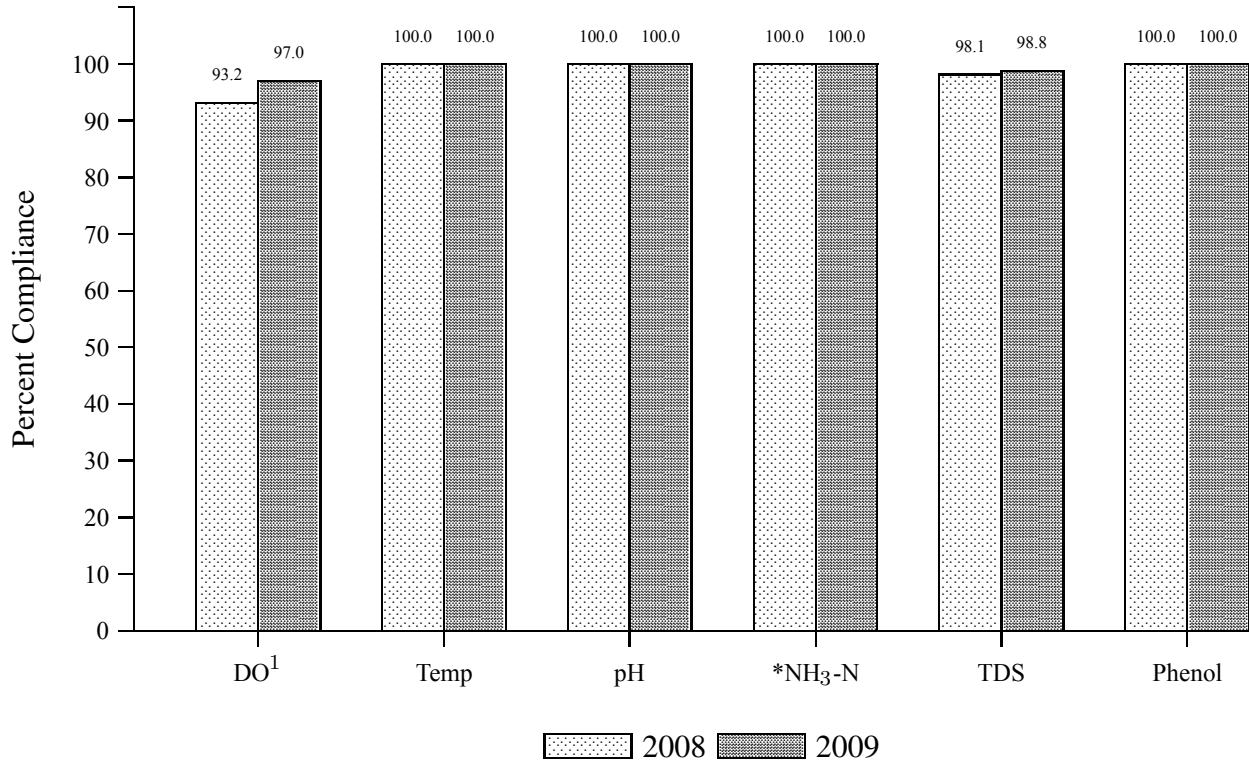
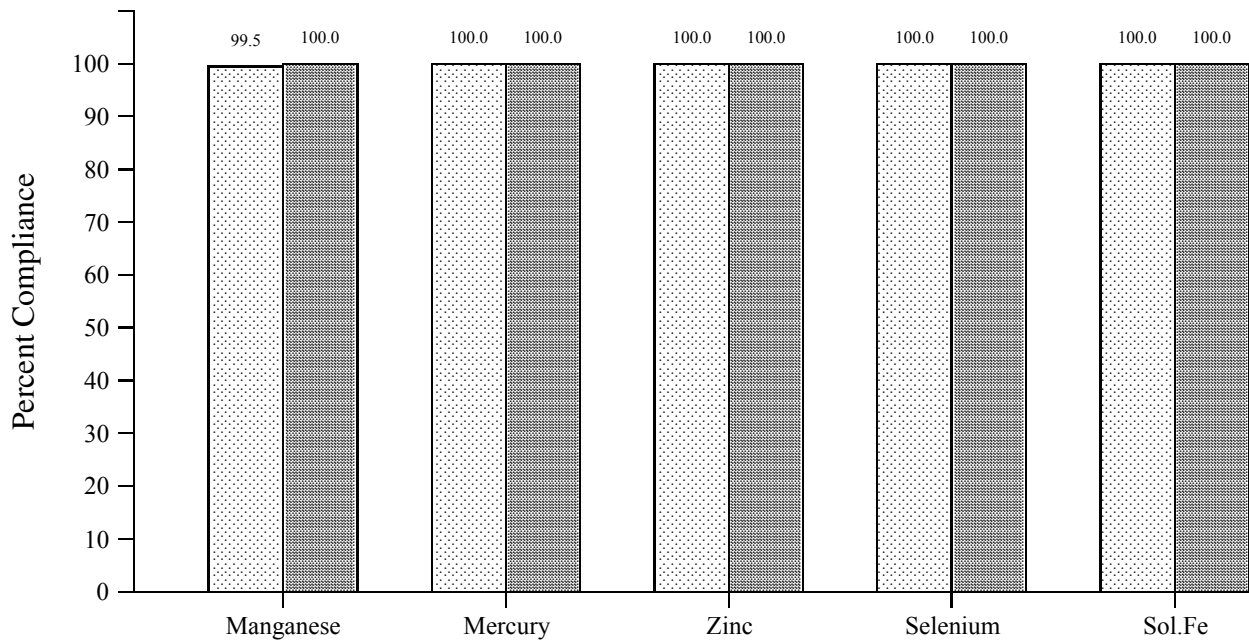
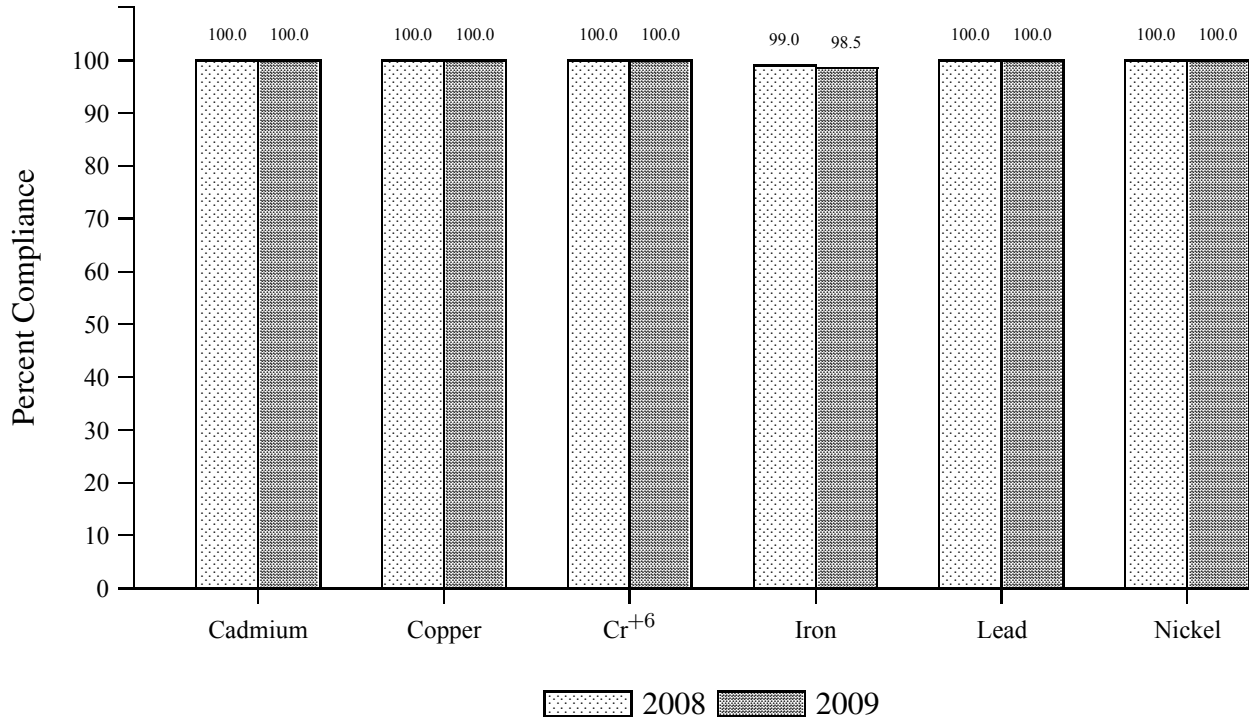


FIGURE 5 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CHICAGO RIVER IN 2008 AND 2009



*NH₃-N = Un-ionized Ammonia.

FIGURE 6: COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CALUMET RIVER IN 2008 AND 2009

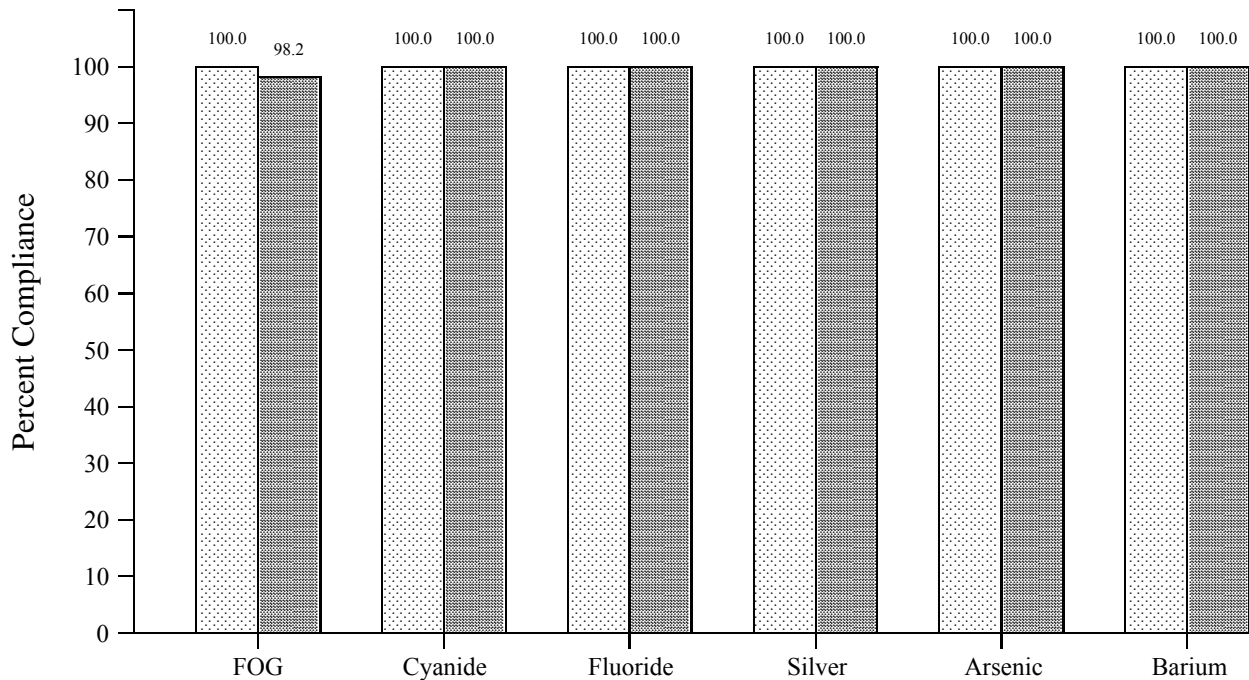
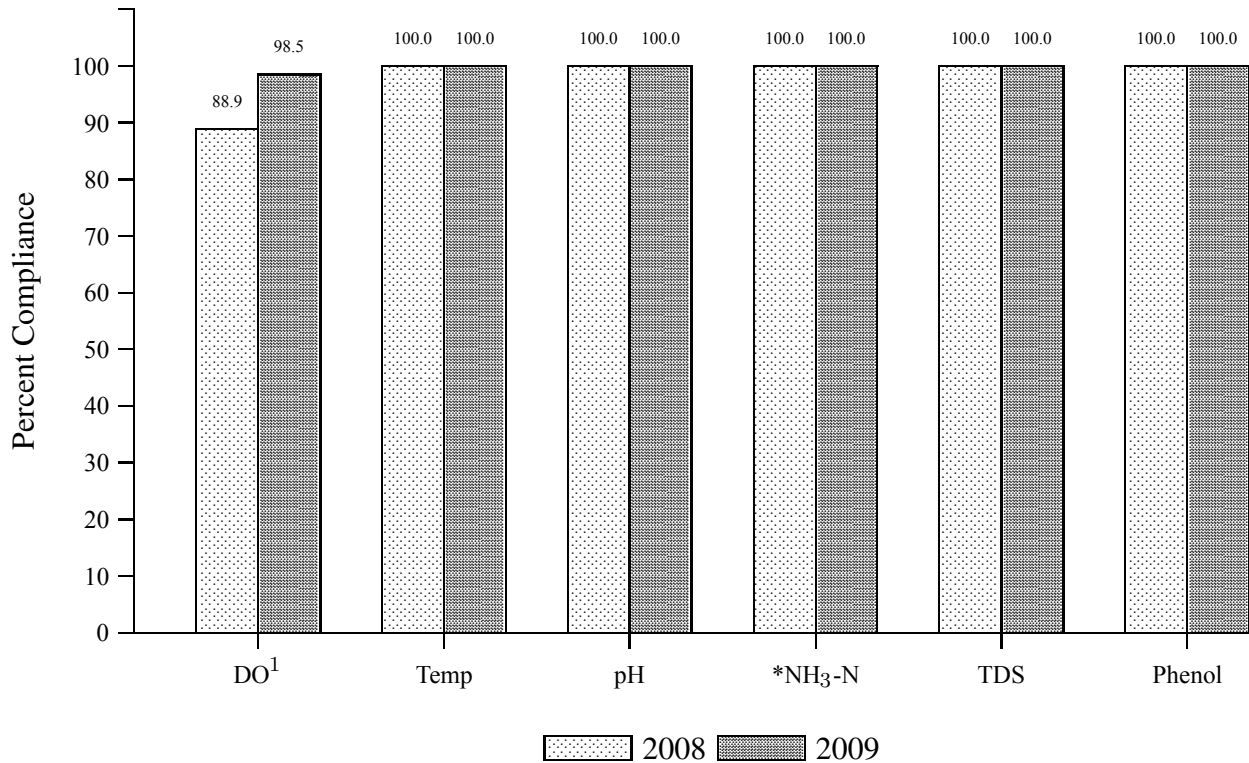
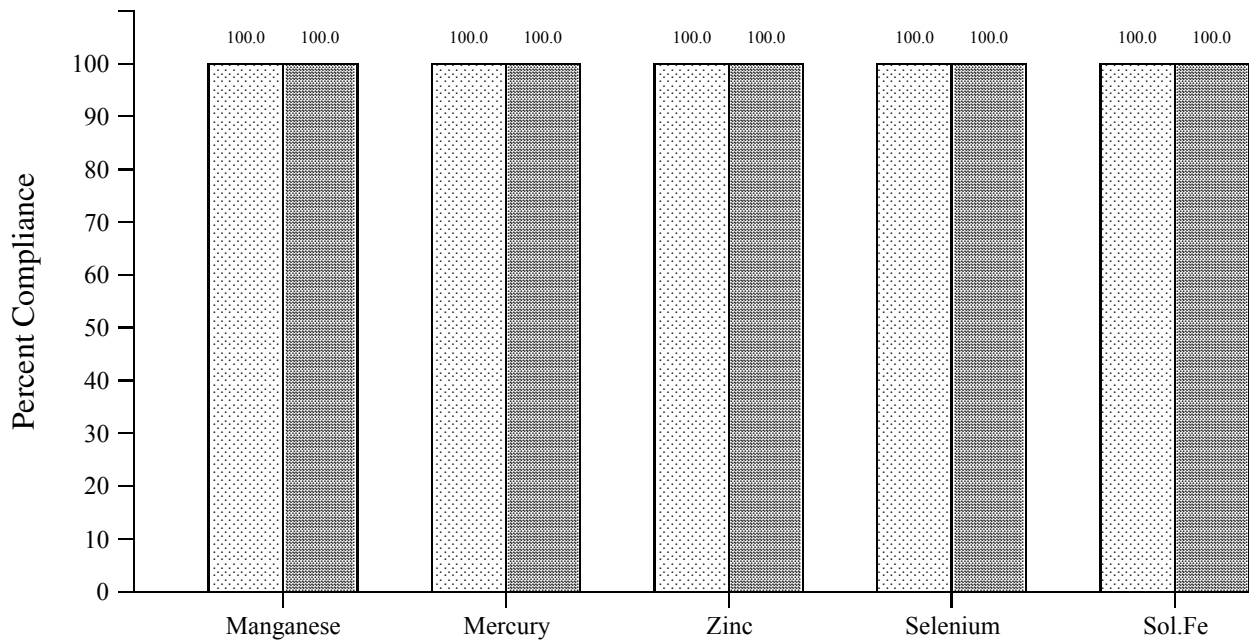
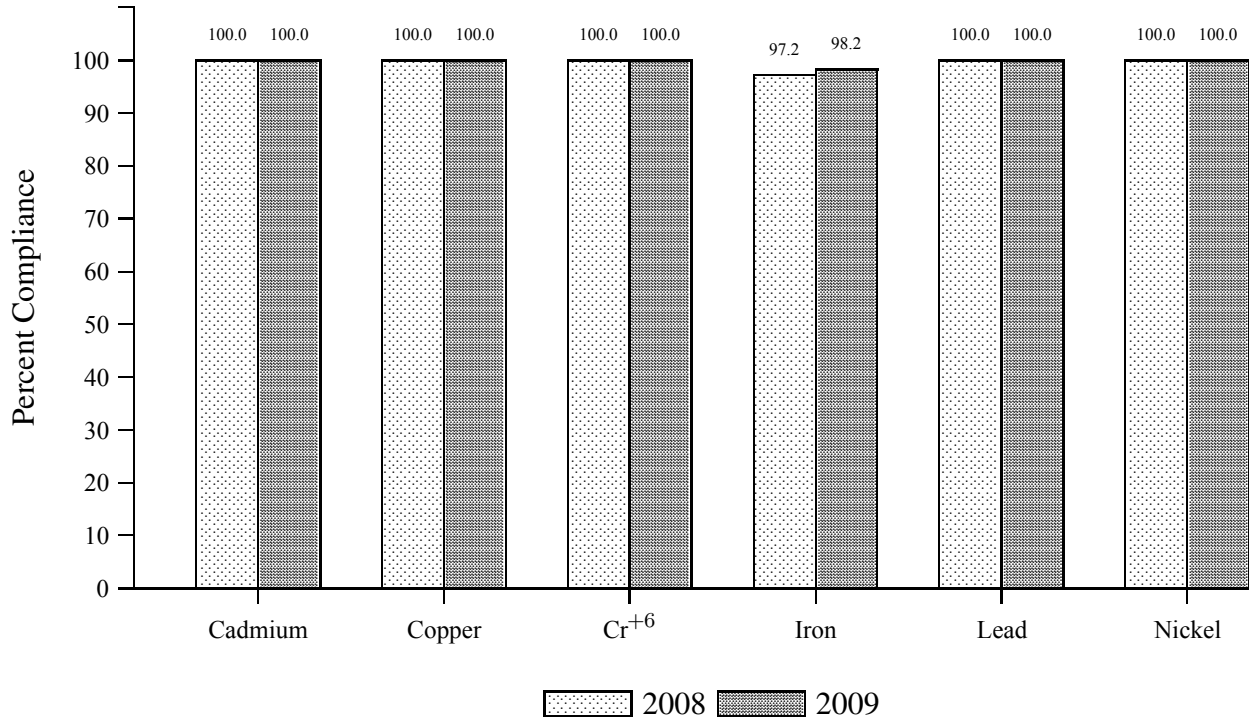


FIGURE 6 (Continued): COMPLIANCE RATES WITH WATER QUALITY STANDARDS FOR SECONDARY CONTACT WATER SECTION OF THE CALUMET RIVER IN 2008 AND 2009



*NH₃-N = Un-ionized Ammonia.

TABLE 10: WATER QUALITY PARAMETERS NOT IN TOTAL COMPLIANCE
IN SECONDARY CONTACT WATERS OF ALL RIVER SYSTEMS IN 2009

Parameter	Estimated Percent Compliance ¹	
	Chicago	Calumet
Dissolved Oxygen	97.0	98.5
Total Dissolved Solids	98.8	100.0
Fats, Oils, and Greases	100.0	98.2
Total Iron	98.5	98.2

¹Based on the total number of samples in compliance divided by the total number of samples collected, multiplied by 100.

²Due to Human Health Standard.

TABLE 11: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
SECONDARY CONTACT LIMITS IN THE SECONDARY CONTACT WATERS OF
THE CHICAGO RIVER SYSTEM IN 2009

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
DO	99	4	Feb, Apr, May, and Jul
	75	1	Mar
	92	1	Jun
		6	Total violations of Dissolved Oxygen (DO)
TDS	37	1	Jan
	73	1	Jan
		2	Total violations of Total Dissolved Solids (TDS)
Fe	73	1	Mar
	92	2	Mar and Apr
		3	Total violations of Total Iron (Fe)

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

Calumet River System. In addition to the 19 parameters listed above, total dissolved solids was also in total compliance. Violations of the pertinent Secondary Contact Standards for the remaining three parameters (DO; fats, oils, and greases; and total iron) occurred in at least one of the locations sampled. The compliance rates of these three parameters ranged from 98.2 to 98.5 percent. Detailed violation records for the noncompliant parameters are shown in Table 12.

A comparison of 2009 data with 2008 data indicated that there was no significant difference between 2009 and 2008 compliance rates except for DO. In the Calumet River System, the compliance rate for DO significantly increased from 88.9 percent in 2008 to 98.5 percent in 2009.

TABLE 12: NUMBER OF PARAMETER CONCENTRATION VIOLATIONS OF
SECONDARY CONTACT LIMITS IN THE SECONDARY CONTACT WATERS OF
THE CALUMET RIVER SYSTEM IN 2009

Parameter	Location No.	Total Violations	Months (No. of Violations) ¹
DO	86	1 <u>1</u>	Jun Total violations of Dissolved Oxygen (DO)
FOG	43	1 <u>1</u>	Jul Total violations of Fats, Oils, and Greases (FOG)
Fe	43	1 <u>1</u>	Oct Total violations of Total Iron (Fe)

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

COMPLIANCE WITH RECEIVING WATER QUALITY STANDARDS UPSTREAM AND DOWNSTREAM OF THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO 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 2009. 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 2009, 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 13.

The outfalls for Hanover Park, John E. Egan, and James C. Kirie WRPs are located in the West Branch of the DuPage 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, 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 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 which have 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 and Harlem Avenue is 9,200 feet below the outfall.
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 and Halsted Street is 6,600 feet below the outfall.

TABLE 13: ANNUAL SAMPLING FREQUENCIES AT UPSTREAM AND DOWNSTREAM LOCATIONS OF THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO WATER RECLAMATION PLANTS IN 2009

WRP	Upstream Sample			Downstream Sample		
	Location	No. ¹	Freq.	Location	No. ¹	Freq.
North Side	Central Street, North Shore Channel	35	9	Touhy Avenue, North Shore Channel	36	10
Stickney	Cicero Avenue, Chicago Sanitary & Ship Canal	75	12	Harlem Avenue, Chicago Sanitary & Ship Canal	41	12
Calumet	Indiana Avenue, Little Calumet River	56	8	Halsted Street, Little Calumet River	76	11
John E. Egan	Higgins Road, Salt Creek	79	8	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 further 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 the Metropolitan Water Reclamation District of Greater Chicago 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 14 through 18. 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-seven water quality parameters, including 42 parameters which have either IPCB General Use, Human Health, or Secondary Contact limits, were assayed for all WRPs in 2009. Comparison of the mean concentrations of the common parameters (maximum 67) 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 14 through 18. 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 for that parameter.

TABLE 14: COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Dissolved Oxygen	DO (mg/L)	9.2		8.3	0.517
Temperature	Temp (°C)	15		14	0.712
pH	pH	7.8		7.3	0.034
Alkalinity (Total)	Alk (mg/L)	119		156	0.001
Chloride	Cl (mg/L)	44		210	0.006
Turbidity	Turb (NTU)	8.1		5.1	0.329
Total Kjeldahl Nitrogen	TKN (mg/L)	0.45		1.38	0.009
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.16		0.40	0.231
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.001		0.002	0.211
Organic Nitrogen	ORG-N (mg/L)	0.28		0.98	0.001
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.33		6.47	0.000
Total Solids	TS (mg/L)	269		628	0.009
Total Suspended Solids	TSS (mg/L)	10		8	0.532
Volatile Suspended Solids	VSS (mg/L)	<3		4.4	0.317
Total Dissolved Solids	TDS (mg/L)	258		614	0.005
Phenols	Phenol (µg/L)	<5		<5	-
Total Nonylphenols	TNP (µg/L)	0.000		0.000	-
Sulfate	SO ₄ (mg/L)	27		48	0.001
Fats, Oils, and Greases	FOG (mg/L)	<5		<5	-
Total Phosphorus	TP (mg/L)	<0.25		1.05	0.000
Total Cyanide	CN (mg/L)	<0.005		<0.005	-
WAD Cyanide	WAD-CN (mg/L)	<0.004		<0.004	-
Fluoride	F (mg/L)	<0.2		0.61	0.000
Total Organic Carbon	TOC (mg/L)	2.7		4.2	0.016
Fecal Coliform *	FC (cfu/100mL)	80		8040	0.001
<i>Escherichia coli</i> *	EColi (cfu/100mL)	53		6119	0.021
Total Calcium	Ca (mg/L)	37		60	0.000
Total Magnesium	Mg (mg/L)	13		21	0.000

TABLE 14 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Hardness	Hard (mg/L)	144		237	0.000
Gross Alpha Radioactivity	G. Alpha (pCi/L)	1.6		3.3	0.005
Gross Beta Radioactivity	G. Beta (pCi/L)	5.1		6.3	0.015
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	9.9		2.0	0.358
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)	<3		<3	-
Total Silver	Ag (mg/L)	<0.003		<0.003	-
Total Arsenic	As (mg/L)	<0.05		<0.05	-
Total Barium	Ba (mg/L)	0.021		0.026	0.013
Total Boron	B (mg/L)	<0.045		0.151	0.000
Total Cadmium	Cd (mg/L)	<0.01		<0.01	-
Total Copper	Cu (mg/L)	<0.01		<0.01	-
Total Chromium	Cr (mg/L)	<0.003		<0.003	0.939
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<10		<10	-
Total Iron	Fe (mg/L)	0.278		0.173	0.299
Total Lead	Pb (mg/L)	<0.015		0.020	0.379
Total Nickel	Ni (mg/L)	<0.01		<0.01	-
Total Manganese	Mn (mg/L)	0.019		0.016	0.569
Total Mercury	Hg (μ g/L)	<0.25		<0.25	-
Low-Level Mercury	Hg- (ng/L)	2.263		<0.5	-
Total Zinc	Zn (mg/L)	<0.015		0.027	0.031
Total Selenium	Se (mg/L)	<0.1		<0.1	-
Soluble Calcium	Sol. Ca (mg/L)	35.3		58.3	0.000
Soluble Magnesium	Sol. Mg (mg/L)	12.3		20.8	0.000
Soluble Silver	Sol. Ag (mg/L)	<0.003		<0.003	-
Soluble Arsenic	Sol. As (mg/L)	<0.025		<0.025	-

TABLE 14 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE NORTH SIDE WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Soluble Barium	Sol. Ba (mg/L)	0.019		0.024	0.012
Soluble Boron	Sol. B (mg/L)	0.036		0.156	0.000
Soluble Cadmium	Sol. Cd (mg/L)	<0.002		<0.002	-
Soluble Copper	Sol. Cu (mg/L)	<0.01		<0.01	-
Soluble Chromium	Sol. Cr (mg/L)	<0.003		<0.003	-
Soluble Iron	Sol. Fe (mg/L)	0.048		0.031	0.674
Soluble Lead	Sol. Pb (mg/L)	<0.02		<0.02	-
Soluble Nickel	Sol. Ni (mg/L)	<0.002		<0.002	-
Soluble Manganese	Sol. Mn (mg/L)	0.012		0.010	0.772
Soluble Zinc	Sol. Zn (mg/L)	<0.01		0.023	0.000
Soluble Selenium	Sol. Se (mg/L)	<0.1		<0.1	-

¹Value following < sign is the average detection limit.

²Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

³Some 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 deviations are below the detection limit or equal to 0.

TABLE 15: COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Dissolved Oxygen	DO (mg/L)	6.4		6.7	0.744
Temperature	Temp (°C)	17		16	0.733
pH	pH	7.1		7.2	0.450
Alkalinity (Total)	Alk (mg/L)	145		144	0.920
Chloride	Cl (mg/L)	155		187	0.467
Turbidity	Turb (NTU)	12		6	0.000
Total Kjeldahl Nitrogen	TKN (mg/L)	1.1		1.4	0.232
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.44		0.58	0.462
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.002		0.004	0.360
Organic Nitrogen	ORG-N (mg/L)	0.68		0.83	0.112
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	3.9		6.4	0.000
Total Solids	TS (mg/L)	502		579	0.340
Total Suspended Solids	TSS (mg/L)	17		10	0.000
Volatile Suspended Solids	VSS (mg/L)	4.8		4.1	0.387
Total Dissolved Solids	TDS (mg/L)	485		570	0.299
Phenols	Phenol (µg/L)	<5		<5	-
Total Nonylphenols	TNP (µg/L)	0.000		0.000	-
Sulfate	SO ₄ (mg/L)	42		56	0.001
Fats, Oils, and Greases	FOG (mg/L)	<5		<5	-
Total Phosphorus	TP (mg/L)	0.49		0.67	0.264
Total Cyanide	CN (mg/L)	<0.005		<0.005	0.615
WAD Cyanide	WAD-CN (mg/L)	<0.004		<0.004	-
Fluoride	F (mg/L)	0.42		0.56	0.001
Total Organic Carbon	TOC (mg/L)	3.5		4.3	0.001
Fecal Coliform *	FC (cfu/100mL)	202		3321	0.000
<i>Escherichia coli</i> *	EColi (cfu/100mL)	161		1669	0.047
Total Calcium	Ca (mg/L)	53		57	0.362
Total Magnesium	Mg (mg/L)	19		20	0.467

TABLE 15 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Hardness	Hard (mg/L)	209		224	0.400
Gross Alpha Radioactivity	G. Alpha (pCi/L)	4.7		3.0	0.333
Gross Beta Radioactivity	G. Beta (pCi/L)	5.6		6.3	0.149
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	3.0		1.9	0.134
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)	<3		<3	-
Total Silver	Ag (mg/L)	<0.003		<0.003	-
Total Arsenic	As (mg/L)	<0.05		<0.05	-
Total Barium	Ba (mg/L)	0.027		0.023	0.027
Total Boron	B (mg/L)	0.095		0.145	0.001
Total Cadmium	Cd (mg/L)	<0.01		<0.01	-
Total Copper	Cu (mg/L)	<0.01		<0.01	-
Total Chromium	Cr (mg/L)	0.003		<0.003	0.438
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<10		<10	-
Total Iron	Fe (mg/L)	0.523		0.340	0.019
Total Lead	Pb (mg/L)	<0.015		<0.015	0.948
Total Nickel	Ni (mg/L)	<0.01		<0.01	-
Total Manganese	Mn (mg/L)	0.029		0.034	0.395
Total Mercury	Hg (μ g/L)	<0.25		<0.25	-
Low-Level Mercury	Hg- (ng/L)	<0.5		<0.5	-
Total Zinc	Zn (mg/L)	0.026		0.029	0.471
Total Selenium	Se (mg/L)	<0.1		<0.1	-
Soluble Calcium	Sol. Ca (mg/L)	50.9		56.2	0.282
Soluble Magnesium	Sol. Mg (mg/L)	18.4		20.2	0.343
Soluble Silver	Sol. Ag (mg/L)	<0.003		<0.003	-
Soluble Arsenic	Sol. As (mg/L)	<0.025		<0.025	-

TABLE 15 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE STICKNEY WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Soluble Barium	Sol. Ba (mg/L)	0.022		0.020	0.393
Soluble Boron	Sol. B (mg/L)	0.099		0.154	0.000
Soluble Cadmium	Sol. Cd (mg/L)	<0.002		<0.002	-
Soluble Copper	Sol. Cu (mg/L)	<0.01		<0.01	-
Soluble Chromium	Sol. Cr (mg/L)	<0.003		<0.003	-
Soluble Iron	Sol. Fe (mg/L)	0.032		0.037	0.439
Soluble Lead	Sol. Pb (mg/L)	<0.02		<0.02	0.950
Soluble Nickel	Sol. Ni (mg/L)	<0.002		<0.002	0.763
Soluble Manganese	Sol. Mn (mg/L)	0.025		0.022	0.659
Soluble Zinc	Sol. Zn (mg/L)	0.011		0.018	0.027
Soluble Selenium	Sol. Se (mg/L)	<0.1		<0.1	-

¹Value following < sign is the average detection limit.

²Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

³Some 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 deviations are below the detection limit or equal to 0.

TABLE 16: COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Dissolved Oxygen	DO (mg/L)	8.5		7.1	0.096
Temperature	Temp (°C)	17		14	0.345
pH	pH	7.5		7.3	0.391
Alkalinity (Total)	Alk (mg/L)	136		162	0.037
Chloride	Cl (mg/L)	100		150	0.158
Turbidity	Turb (NTU)	18		9	0.035
Total Kjeldahl Nitrogen	TKN (mg/L)	0.99		1.22	0.369
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.32		0.32	0.991
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.005		0.002	0.060
Organic Nitrogen	ORG-N (mg/L)	0.67		0.90	0.264
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.86		4.56	0.000
Total Solids	TS (mg/L)	440		579	0.138
Total Suspended Solids	TSS (mg/L)	19		12	0.163
Volatile Suspended Solids	VSS (mg/L)	3.1		3.8	0.576
Total Dissolved Solids	TDS (mg/L)	421		566	0.116
Phenols	Phenol (µg/L)	<5		<5	-
Total Nonylphenols	TNP (µg/L)	0.000		0.000	-
Sulfate	SO ₄ (mg/L)	64		76	0.394
Fats, Oils, and Greases	FOG (mg/L)	<5		<5	-
Total Phosphorus	TP (mg/L)	<0.25		1.49	0.002
Total Cyanide	CN (mg/L)	<0.005		<0.005	-
WAD Cyanide	WAD-CN (mg/L)	<0.004		<0.004	-
Fluoride	F (mg/L)	0.24		0.52	0.002
Total Organic Carbon	TOC (mg/L)	3.7		4.4	0.177
Fecal Coliform *	FC (cfu/100mL)	74		2262	0.001
<i>Escherichia coli</i> *	EColi (cfu/100mL)	257		2486	0.535
Total Calcium	Ca (mg/L)	50		63	0.057
Total Magnesium	Mg (mg/L)	17		22	0.060

TABLE 16 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Hardness	Hard (mg/L)	196		245	0.057
Gross Alpha Radioactivity	G. Alpha (pCi/L)	2.8		2.8	0.905
Gross Beta Radioactivity	G. Beta (pCi/L)	5.6		6.7	0.222
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	27		13	0.317
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)	<3		<3	-
Total Silver	Ag (mg/L)	<0.003		<0.003	-
Total Arsenic	As (mg/L)	<0.05		<0.05	-
Total Barium	Ba (mg/L)	0.033		0.025	0.039
Total Boron	B (mg/L)	0.122		0.171	0.230
Total Cadmium	Cd (mg/L)	<0.01		<0.01	-
Total Copper	Cu (mg/L)	<0.01		0.028	0.938
Total Chromium	Cr (mg/L)	0.004		<0.003	0.145
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<10		<10	-
Total Iron	Fe (mg/L)	0.650		0.381	0.016
Total Lead	Pb (mg/L)	<0.015		<0.015	-
Total Nickel	Ni (mg/L)	<0.01		<0.01	-
Total Manganese	Mn (mg/L)	0.052		0.037	0.131
Total Mercury	Hg (μ g/L)	<0.25		<0.25	-
Low-Level Mercury	Hg- (ng/L)	1.400		<0.5	-
Total Zinc	Zn (mg/L)	0.015		0.032	0.003
Total Selenium	Se (mg/L)	<0.1		<0.1	-
Soluble Calcium	Sol. Ca (mg/L)	47.4		61.1	0.061
Soluble Magnesium	Sol. Mg (mg/L)	16.5		21.2	0.064
Soluble Silver	Sol. Ag (mg/L)	<0.003		<0.003	-
Soluble Arsenic	Sol. As (mg/L)	<0.025		<0.025	-

TABLE 16 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE CALUMET WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Soluble Barium	Sol. Ba (mg/L)	0.029		0.021	0.036
Soluble Boron	Sol. B (mg/L)	0.134		0.176	0.208
Soluble Cadmium	Sol. Cd (mg/L)	<0.002		<0.002	-
Soluble Copper	Sol. Cu (mg/L)	<0.01		<0.01	-
Soluble Chromium	Sol. Cr (mg/L)	<0.003		<0.003	-
Soluble Iron	Sol. Fe (mg/L)	<0.02		0.030	0.005
Soluble Lead	Sol. Pb (mg/L)	<0.02		<0.02	-
Soluble Nickel	Sol. Ni (mg/L)	<0.002		<0.002	-
Soluble Manganese	Sol. Mn (mg/L)	0.019		0.025	0.348
Soluble Zinc	Sol. Zn (mg/L)	<0.01		0.016	0.000
Soluble Selenium	Sol. Se (mg/L)	<0.1		<0.1	-

¹Value following < sign is the average detection limit.

²Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

³Some 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 deviations are below the detection limit or equal to 0.

TABLE 17: COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Dissolved Oxygen	DO (mg/L)	7.4		8.1	0.371
Temperature	Temp (°C)	17		14	0.294
pH	pH	7.8		7.5	0.076
Alkalinity (Total)	Alk (mg/L)	183		152	0.027
Chloride	Cl (mg/L)	258		248	0.826
Turbidity	Turb (NTU)	21		13	0.074
Total Kjeldahl Nitrogen	TKN (mg/L)	1.2		1.2	0.811
Ammonium Nitrogen	NH ₄ -N (mg/L)	<0.1		<0.1	0.339
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.001		0.000	0.155
Organic Nitrogen	ORG-N (mg/L)	1.2		1.2	0.998
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	1.3		7.7	0.008
Total Solids	TS (mg/L)	725		721	0.966
Total Suspended Solids	TSS (mg/L)	24		14	0.017
Volatile Suspended Solids	VSS (mg/L)	7.5		4.8	0.056
Total Dissolved Solids	TDS (mg/L)	701		708	0.931
Phenols	Phenol (µg/L)	<5		<5	-
Total Nonylphenols	TNP (µg/L)	0.000		0.000	-
Sulfate	SO ₄ (mg/L)	62		63	0.973
Fats, Oils, and Greases	FOG (mg/L)	<5		<5	-
Total Phosphorus	TP (mg/L)	0.25		1.59	0.013
Total Cyanide	CN (mg/L)	<0.005		<0.005	-
WAD Cyanide	WAD-CN (mg/L)	<0.004		<0.004	-
Fluoride	F (mg/L)	<0.2		0.46	0.007
Total Organic Carbon	TOC (mg/L)	6.0		5.5	0.206
Fecal Coliform *	FC (cfu/100mL)	97		184	0.171
<i>Escherichia coli</i> *	EColi (cfu/100mL)	63		76	0.883
Total Calcium	Ca (mg/L)	62		61	0.872
Total Magnesium	Mg (mg/L)	26		23	0.109

TABLE 17 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Hardness	Hard (mg/L)	264		249	0.426
Gross Alpha Radioactivity	G. Alpha (pCi/L)	3.3		2.8	0.258
Gross Beta Radioactivity	G. Beta (pCi/L)	5.9		6.2	0.488
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	21		14	0.147
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)	<3		<3	-
Total Silver	Ag (mg/L)	<0.003		<0.003	-
Total Arsenic	As (mg/L)	<0.05		<0.05	-
Total Barium	Ba (mg/L)	0.041		0.027	0.000
Total Boron	B (mg/L)	0.079		0.145	0.005
Total Cadmium	Cd (mg/L)	<0.01		<0.01	-
Total Copper	Cu (mg/L)	<0.01		<0.01	-
Total Chromium	Cr (mg/L)	<0.003		<0.003	0.745
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<10		<10	-
Total Iron	Fe (mg/L)	1.223		0.538	0.000
Total Lead	Pb (mg/L)	<0.015		0.015	0.440
Total Nickel	Ni (mg/L)	<0.01		<0.01	-
Total Manganese	Mn (mg/L)	0.104		0.046	0.000
Total Mercury	Hg (μ g/L)	<0.25		<0.25	-
Low-Level Mercury	Hg- (ng/L)	3.388		2.542	0.020
Total Zinc	Zn (mg/L)	<0.015		0.023	0.026
Total Selenium	Se (mg/L)	<0.1		<0.1	-
Soluble Calcium	Sol. Ca (mg/L)	60.4		59.0	0.762
Soluble Magnesium	Sol. Mg (mg/L)	25.7		22.5	0.111
Soluble Silver	Sol. Ag (mg/L)	<0.003		<0.003	-
Soluble Arsenic	Sol. As (mg/L)	<0.025		<0.025	-

TABLE 17 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Soluble Barium	Sol. Ba (mg/L)	0.034		0.024	0.008
Soluble Boron	Sol. B (mg/L)	0.085		0.147	0.016
Soluble Cadmium	Sol. Cd (mg/L)	<0.002		<0.002	-
Soluble Copper	Sol. Cu (mg/L)	<0.01		<0.01	-
Soluble Chromium	Sol. Cr (mg/L)	<0.003		<0.003	-
Soluble Iron	Sol. Fe (mg/L)	0.052		0.073	0.061
Soluble Lead	Sol. Pb (mg/L)	<0.02		<0.02	-
Soluble Nickel	Sol. Ni (mg/L)	<0.002		<0.002	-
Soluble Manganese	Sol. Mn (mg/L)	0.022		0.023	0.868
Soluble Zinc	Sol. Zn (mg/L)	<0.01		0.018	0.028
Soluble Selenium	Sol. Se (mg/L)	<0.1		<0.1	-

¹Value following < sign is the average detection limit.

²Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

³Some 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 deviations are below the detection limit or equal to 0.

TABLE 18: COMPARISON OF LEVELS OF 67 WATER QUALITY
PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D)
LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Dissolved Oxygen	DO (mg/L)	8.6		8.8	0.713
Temperature	Temp (°C)	12		14	0.700
pH	pH	7.8		7.6	0.176
Alkalinity (Total)	Alk (mg/L)	149		204	0.062
Chloride	Cl (mg/L)	305		233	0.373
Turbidity	Turb (NTU)	19		4	0.028
Total Kjeldahl Nitrogen	TKN (mg/L)	0.93		1.22	0.228
Ammonium Nitrogen	NH ₄ -N (mg/L)	0.14		0.27	0.113
Un-ionized Ammonia	NH ₃ -N (mg/L)	0.003		0.004	0.604
Organic Nitrogen	ORG-N (mg/L)	0.79		0.95	0.419
Nitrite Plus Nitrate Nitrogen	NO ₂ + NO ₃ (mg/L)	0.41		8.26	0.000
Total Solids	TS (mg/L)	721		788	0.690
Total Suspended Solids	TSS (mg/L)	19		7	0.006
Volatile Suspended Solids	VSS (mg/L)	7.3		<3	0.079
Total Dissolved Solids	TDS (mg/L)	703		781	0.640
Phenols	Phenol (µg/L)	<5		<5	-
Total Nonylphenols	TNP (µg/L)	0.000		0.000	-
Sulfate	SO ₄ (mg/L)	36		82	0.000
Fats, Oils, and Greases	FOG (mg/L)	<5		<5	-
Total Phosphorus	TP (mg/L)	<0.25		0.94	0.002
Total Cyanide	CN (mg/L)	<0.005		<0.005	-
WAD Cyanide	WAD-CN (mg/L)	<0.004		<0.004	-
Fluoride	F (mg/L)	<0.2		0.63	0.001
Total Organic Carbon	TOC (mg/L)	5.3		5.1	0.887
Fecal Coliform *	FC (cfu/100mL)	1296		475	0.397
<i>Escherichia coli</i> *	EColi (cfu/100mL)	0.000		314.501	-
Total Calcium	Ca (mg/L)	51		79	0.002
Total Magnesium	Mg (mg/L)	18		29	0.008

TABLE 18 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Hardness	Hard (mg/L)	203		317	0.004
Gross Alpha Radioactivity	G. Alpha (pCi/L)	2.4		3.5	0.102
Gross Beta Radioactivity	G. Beta (pCi/L)	5.0		7.6	0.002
Chlorophyll <i>a</i>	Chlrphl (μ g/L)	8.4		2.2	0.162
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)	<3		<3	-
Total Silver	Ag (mg/L)	<0.003		<0.003	-
Total Arsenic	As (mg/L)	<0.05		<0.05	-
Total Barium	Ba (mg/L)	0.043		0.029	0.070
Total Boron	B (mg/L)	0.055		0.193	0.003
Total Cadmium	Cd (mg/L)	<0.01		<0.01	-
Total Copper	Cu (mg/L)	<0.01		<0.01	-
Total Chromium	Cr (mg/L)	<0.003		<0.003	0.232
Total Hexavalent Chromium	Cr ⁺⁶ (μ g/L)	<10		<10	-
Total Iron	Fe (mg/L)	0.770		0.137	0.000
Total Lead	Pb (mg/L)	<0.015		0.016	-
Total Nickel	Ni (mg/L)	<0.01		<0.01	-
Total Manganese	Mn (mg/L)	0.092		0.032	0.003
Total Mercury	Hg (μ g/L)	<0.25		<0.25	-
Low-Level Mercury	Hg- (ng/L)	5.750		2.308	0.251
Total Zinc	Zn (mg/L)	0.021		0.036	0.120
Total Selenium	Se (mg/L)	<0.1		<0.1	-
Soluble Calcium	Sol. Ca (mg/L)	50.2		76.9	0.004
Soluble Magnesium	Sol. Mg (mg/L)	18.1		29.0	0.009
Soluble Silver	Sol. Ag (mg/L)	<0.003		<0.003	-
Soluble Arsenic	Sol. As (mg/L)	<0.025		<0.025	-

TABLE 18 (Continued): COMPARISON OF LEVELS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS FOR THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2009

Parameter	Abbreviation (Units)	U ¹	vs.	D ¹	Sig. Prob. ^{2,3}
Soluble Barium	Sol. Ba (mg/L)	0.038		0.027	0.139
Soluble Boron	Sol. B (mg/L)	0.067		0.201	0.000
Soluble Cadmium	Sol. Cd (mg/L)	<0.002		<0.002	-
Soluble Copper	Sol. Cu (mg/L)	<0.01		<0.01	-
Soluble Chromium	Sol. Cr (mg/L)	<0.003		<0.003	-
Soluble Iron	Sol. Fe (mg/L)	0.063		0.051	0.405
Soluble Lead	Sol. Pb (mg/L)	<0.02		<0.02	-
Soluble Nickel	Sol. Ni (mg/L)	<0.002		0.002	-
Soluble Manganese	Sol. Mn (mg/L)	0.069		0.026	0.005
Soluble Zinc	Sol. Zn (mg/L)	<0.01		0.032	0.001
Soluble Selenium	Sol. Se (mg/L)	<0.1		<0.1	-

¹Value following < sign is the average detection limit.

²Significance Probability ≤ 0.05 indicates that upstream and downstream population means are not equal.

³Some 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 deviations are below the detection limit or equal to 0.

A study of the concentrations of the water quality parameters presented in Tables 14 through 18 and the tables in Appendix AII 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.

North Side Water Reclamation Plant. Locations 35 and 36, upstream and downstream, respectively, of the North Side WRP, are classified as General Use and Secondary Contact waters. Sixty-seven water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 27 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- pH, alkalinity (total), chloride, total Kjeldahl nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, total solids, total dissolved solids, sulfate, total phosphorus, fluoride, total organic carbon, fecal coliform, *Escherichia coli*, total calcium, total magnesium, hardness, gross alpha radioactivity, gross beta radioactivity, total barium, total boron, total zinc, soluble calcium, soluble magnesium, soluble barium, soluble boron, and soluble zinc.

All parameters had significantly higher means downstream than upstream except pH, which had higher means upstream than downstream.

Out of the 27 parameters listed above, 11 parameters have either IPCB Human Health, General Use, or Secondary Contact Water quality limits. These parameters are:

- pH, chloride, total dissolved solids, sulfate, fluoride, fecal coliform, gross beta radioactivity, total barium, total boron, total zinc, and soluble zinc.

Of the 11 parameters referenced with IPCB Human Health, General Use, or Secondary Contact limits, nine were in total compliance at the upstream location. These parameters were:

- pH, chloride, total dissolved solids, sulfate, fluoride, gross beta radioactivity, total barium, total boron, and soluble zinc.

The percent compliance rate of fecal coliform was 88.9 percent. Total zinc was not regulated by IPCB Human Health or General Use limits.

Of the 11 parameters referenced with IPCB Human Health, General Use, or Secondary Contact water quality limits, five were in total compliance at the downstream location. These parameters were:

- pH, total dissolved solids, fluoride, total barium, and total zinc.

The remaining six parameters (chloride, sulfate, fecal coliform, gross beta radioactivity, total boron, and soluble zinc) were not regulated by IPCB Secondary Contact limits.

Stickney Water Reclamation Plant. 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-seven water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 13 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- turbidity, nitrite plus nitrate nitrogen, total suspended solids, sulfate, fluoride, total organic carbon, fecal coliform, *Escherichia coli*, total barium, total boron, total iron, soluble boron, and soluble zinc.

Nine parameters (nitrite plus nitrate nitrogen, sulfate, fluoride, total organic carbon, fecal coliform, *Escherichia coli*, total boron, soluble boron, and soluble zinc) had significantly higher means downstream than upstream. The remaining four parameters (turbidity, total suspended solids, total barium, and total iron) had significantly higher means upstream than downstream.

Out of the 13 parameters listed above, three parameters have IPCB Secondary Contact Water quality limits. These parameters are:

- fluoride, total barium, and total iron.

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

Calumet Water Reclamation Plant. Both the upstream and downstream sampling locations (56 and 76, respectively) of the Calumet WRP are located in the Secondary Contact Waters of the Calumet River System. Sixty-seven water quality parameters were considered for comparison of mean concentrations between upstream and downstream locations. The following 12 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- alkalinity (total), turbidity, nitrite plus nitrate nitrogen, total phosphorus, fluoride, fecal coliform, total barium, total iron, total zinc, soluble barium, soluble iron, and soluble zinc.

Eight parameters (alkalinity [total], nitrite plus nitrate nitrogen, total phosphorus, fluoride, fecal coliform, total zinc, soluble iron, and soluble zinc) had significantly higher means downstream than upstream. The remaining four parameters (turbidity, total barium, total iron, and soluble barium) had significantly higher means upstream than downstream.

Out of the 12 parameters listed above, five parameters have IPCB Secondary Contact Water quality limits. These parameters are:

- fluoride, total barium, total iron, total zinc, and soluble iron.

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

John E. Egan Water Reclamation Plant. Both the upstream and downstream sampling locations (79 and 80, respectively) of the John E. Egan WRP are located in the General Use Waters of the Des Plaines River System. Sixty-seven water quality parameters were considered for

comparison of mean concentrations between upstream and downstream locations.

The following 14 water quality parameters' mean concentrations were significantly different between upstream and downstream locations:

- alkalinity (total), nitrite plus nitrate nitrogen, total suspended solids, total phosphorus, fluoride, total barium, total boron, total iron, total manganese, low-level mercury, total zinc, soluble barium, soluble boron, and soluble zinc.

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

- alkalinity (total), total suspended solids, total barium, total iron, total manganese, low-level mercury, and soluble barium.

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

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

Out of the 14 parameters listed above, five parameters have IPCB General Use or Human Health water quality limits. These parameters are:

- fluoride, total barium, total boron, total manganese, and soluble zinc.

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

James C. Kirie Water Reclamation Plant. Both the upstream and downstream sampling locations (77 and 78, respectively) of the James C. Kirie WRP are located in the General Use Waters of the Des Plaines River System. Sixty-seven 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, nitrite plus nitrate nitrogen, total suspended solids, sulfate, total phosphorus, fluoride, total calcium, total magnesium, hardness, gross beta radioactivity, total boron, total iron, total manganese, soluble calcium, soluble magnesium, soluble boron, soluble manganese, and soluble zinc.

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

- turbidity, total suspended solids, total iron, total manganese, and soluble manganese.

The remaining 13 parameters had significantly higher mean concentrations downstream than upstream. These parameters were:

- nitrite plus nitrate nitrogen, sulfate, total phosphorus, fluoride, total calcium, total magnesium, hardness, gross beta radioactivity, total boron, soluble calcium, soluble magnesium, soluble boron, and soluble zinc.

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

- sulfate, fluoride, gross beta radioactivity, total boron, total manganese, and soluble zinc.

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

Hanover Park Water Reclamation Plant. Both the upstream and downstream sampling locations (63 and 89, respectively) of the Hanover Park WRP are located in the General Use Waters of the Des Plaines River System. No samples at the upstream location of the Hanover Park WRP (Location 63) were taken in 2009, 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 2009

Symbol	Parameter	Unit	MDL ²	Water Quality Standard ¹	
				General Use	Secondary Contact
DO	Dissolved Oxygen	mg/L	1	(3.5, 5.0) ³	(3.0, 4.0) ⁴
Temp	Temperature	°C	-	16 (32 Apr - Nov)	37.8
pH	pH		-	6.5 - 9.0	6.0 - 9.0
Alk	Alkalinity (Total)	mg/L	15	None	None
Cl	Chloride	mg/L	10	500	None
Turb	Turbidity	NTU	1	None	None
TKN	Total Kjeldahl Nitrogen	mg/L	0.2	None	None
NH ₄ -N	Ammonium Nitrogen	mg/L	0.1	15 ⁵	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	0.1	None	None
TS	Total Solids	mg/L	-	None	None
TSS	Total Suspended Solids	mg/L	3	None	None
VSS	Volatile Suspended Solids	mg/L	3	None	None
TDS	Total Dissolved Solids	mg/L	100	1,000	1,500
Phenol	Phenols	µg/L	5	100	300
TNP	Total Nonylphenols	µg/L	-	None	None
SO ₄	Sulfate	mg/L	2	500	None
FOG	Fats, Oils, and Greases	mg/L	5	None	15
TP	Total Phosphorus	mg/L	0.25	None	None
CN	Total Cyanide	mg/L	0.005	None	0.1
WAD-CN	Weak Acid Dissociable Cyanide	mg/L	0.004	0.022	None
F	Fluoride	mg/L	0.2	1.4	15
TOC	Total Organic Carbon	mg/L	1	None	None
FC	Fecal Coliform	cfu/100mL	-	400	None
EColi	<i>Escherichia coli</i>	cfu/100mL	-	None	None
Ca	Total Calcium	mg/L	0.3	None	None
Mg	Total Magnesium	mg/L	0.4	None	None

TABLE AI-1 (Continued): DIRECTORY OF WATER QUALITY PARAMETERS
ASSAYED IN 2009

Symbol	Parameter	Unit	MDL ²	Water Quality Standard ¹	
				General Use	Secondary Contact
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
Bzn	Benzene*	μg/L	2	310	None
Bzn	Benzene	μg/L	2	4,200	None
Ebnzn	Ethylbenzene	μg/L	2	150	None
Toln	Toluene	μg/L	2	2,000	None
Xyln	Xylene	μg/L	3	920	None
Ag	Total Silver	mg/L	0.003	0.005	1.1
As	Total Arsenic	mg/L	0.05	None	1
Ba	Total Barium	mg/L	0.003	5	5
B	Total Boron	mg/L	0.045	1	None
Cd	Total Cadmium	mg/L	0.01	None	0.15
Cu	Total Copper	mg/L	0.01	None	1
Cr	Total Chromium	mg/L	0.003	None	None
Cr ⁺⁶	Total Hexavalent Chromium	μg/L	10	16	300
Fe	Total Iron	mg/L	0.1	None	2
Pb	Total Lead	mg/L	0.015	None	0.1
Ni	Total Nickel	mg/L	0.01	None	1
Mn	Total Manganese	mg/L	0.003	1	1
Hg	Total Mercury*	μg/L	0.25	0.012	None
Hg	Total Mercury	μg/L	0.25	None	0.5
Hg-	Low-Level Mercury	ng/L	0.5	None	None
Zn	Total Zinc	mg/L	0.015	None	1
Se	Total Selenium	mg/L	0.1	1	1
Sol. Ca	Soluble Calcium	mg/L	0.1	None	None
Sol. Mg	Soluble Magnesium	mg/L	0	None	None

TABLE AI-1 (Continued): DIRECTORY OF WATER QUALITY PARAMETERS
ASSAYED IN 2009

Symbol	Parameter	Unit	MDL ²	Water Quality Standard ¹	
				General Use	Secondary Contact
Sol. Ag	Soluble Silver	mg/L	0.003	None	None
Sol. As	Soluble Arsenic	mg/L	0.025	0.36	None
Sol. Ba	Soluble Barium	mg/L	0.001	None	None
Sol. B	Soluble Boron	mg/L	0.01	None	None
Sol. Cd	Soluble Cadmium	mg/L	0.002	0.031 ⁶	None
Sol. Cu	Soluble Copper	mg/L	0.01	0.049 ⁷	None
Sol. Cr	Soluble Chromium	mg/L	0.003	1.384 ⁸	None
Sol. Fe	Soluble Iron	mg/L	0.02	1	0.5
Sol. Pb	Soluble Lead	mg/L	0.02	0.253 ⁹	None
Sol. Ni	Soluble Nickel	mg/L	0.002	0.214 ¹⁰	None
Sol. Mn	Soluble Manganese	mg/L	0.001	None	None
Sol. Zn	Soluble Zinc	mg/L	0.01	0.311 ¹¹	None
Sol. Se	Soluble Selenium	mg/L	0.1	None	None

¹As per Illinois Pollution Control Board, except as modified (see text).

²MDL=Minimum detection limit. Average MDL value is used where referenced in this report.

³Standard is 5.0 mg/L in March through July and 3.5 mg/L in other months.

⁴Standard is 3.0 mg/L for locations (43,58, and 59) and 4.0 mg/L for other Secondary Contact locations .

⁵Based on $\text{Min} \left(\frac{0.411}{1+10^{7.204+\text{pH}}} + \frac{58.4}{1+10^{\text{pH}-7.204}}, 15 \right)$.

⁶Based on $\text{Min} \left(e^{-2.98+1.128 \times (\text{Hard})} * (1.138672 - 0.041838 \times \ln(\text{Hard}))/1000, 0.005 \right)$.

⁷Based on $0.00090 e^{-1.464+0.9422 \times \ln(\text{Hard})}$.

⁸Based on $0.000316 e^{3.688+0.819 \times \ln(\text{Hard})}$.

⁹Based on $e^{-1.301+1.1.273 \times \ln(\text{Hard})} * (1.46203 - 0.145712 \times \ln(\text{Hard})) / 1000$.

¹⁰Based on $0.000998 e^{0.5173+0.846 \times \ln(\text{Hard})}$.

¹¹Based on $0.000978 e^{0.9035+0.8473 \times \ln(\text{Hard})}$.

- No minimum detection limit reported.

*As Human Health Standard.

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

Sampling Station (No. Name)	Sample Type	Water Use	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 and Archer*	Auto	SEC	Chicago
9 North Side WRP, Outfall*	Auto	EFF	Chicago
10 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 Street, 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 and Des Plaines River*	Grab	GEN	Des Plaines
29 Stephen Street, Des Plaines River	Grab	GEN	Des Plaines

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

Sampling Station (No. Name)	Sample Type	Water Use	River System
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 Chicago River*	Grab	GEN	Chicago
34 Dempster Street, North Branch Chicago River	Grab	GEN	Chicago
35 Central Street, North Shore Channel	Grab	GEN	Chicago
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 Railroad 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

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

Sampling Station (No. Name)	Sample Type	Water Use	River System
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
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 Dempster Street, North Shore Channel*	Grab	SEC	Chicago

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

Sampling Station (No. Name)	Sample Type	Water Use	River System
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
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 2009 Sampling.

APPENDIX AII

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

TABLE AII-1: WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	DO mg/L	Temp °C	pH	Alk 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	7.78	11.3	7.18	173
103 Golf Road, West Fork North Branch Chicago River	7.27	13.4	7.49	180
31 Lake-Cook Road, Middle Fork North Branch	7.88	12.4	7.60	196
104 Glenview Road, North Branch Chicago River	7.53	12.5	7.76	184
32 Lake-Cook Road, Skokie River	7.75	13.4	7.66	203
105 Frontage Road, Skokie River	7.77	12.3	7.64	187
34 Dempster Street, North Branch Chicago River	7.88	11.9	7.78	180
96 Albany Avenue, North Branch Chicago River	8.64	12.1	7.88	186
35 Central Street, North Shore Channel	9.23	14.9	7.83	119
102 Oakton Street, North Shore Channel	8.19	13.2	7.67	136
36 Touhy Avenue, North Shore Channel	8.29	13.9	7.33	156
101 Foster Avenue, North Shore Channel	7.67	14.8	7.33	149
37 Wilson Avenue, North Branch Chicago River	8.43	13.7	7.54	149
73 Diversey Parkway, North Branch Chicago River	7.91	13.8	7.30	152
46 Grand Avenue, North Branch Chicago River	7.25	13.4	7.49	150
74 Lake Shore Drive, Chicago River	9.27	13.7	7.49	118
100 Wells Street, Chicago River	8.57	13.7	7.68	130
39 Madison Street, South Branch Chicago River	7.27	13.7	7.45	150
108 Loomis Street, South Branch Chicago River	6.84	16.4	7.42	149
99 Archer Avenue, South Fork South Branch Chicago River	4.76	15.4	7.25	149
40 Damen Avenue, Chicago Sanitary & Ship Canal	6.97	15.4	7.46	152
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.43	17.3	7.14	145
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.68	16.4	7.24	144
42 Route 83, Chicago Sanitary & Ship Canal	6.31	16.5	6.96	149
48 Stephen Street, Chicago Sanitary & Ship Canal	7.00	15.8	7.28	146
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6.28	17.4	7.39	149
Calumet River System				
49 Ewing Avenue, Calumet River	9.07	14.0	7.45	113
50 Burnham Avenue, Wolf Lake	8.45	17.0	7.81	102
55 130th Street, Calumet River	8.43	16.6	7.84	117
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	4.66	17.8	7.35	225
56 Indiana Avenue, Little Calumet River	8.45	17.1	7.49	136
76 Halsted Street, Little Calumet River	7.14	14.4	7.31	162
52 Wentworth Avenue, Little Calumet River	7.10	15.9	7.77	204
54 Joe Orr Road, Thorn Creek	8.04	16.7	7.03	190
97 170th Street, Thorn Creek	7.24	16.4	7.76	204
57 Ashland Avenue, Little Calumet River	6.79	16.5	7.78	193
58 Ashland Avenue, Calumet-Sag Channel	7.52	14.3	7.48	163
59 Cicero Avenue, Calumet-Sag Channel	7.02	15.9	7.42	165
43 Route 83, Calumet-Sag Channel	6.72	16.2	7.55	160
Des Plaines River System				
90 Route 19, Poplar Creek	8.58	13.6	7.91	227
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	8.75	15.7	7.48	179
64 Lake Street, West Branch DuPage River	9.03	13.5	7.77	170
79 Higgins Road, Salt Creek	7.41	16.7	7.77	183
80 Arlington Heights Road, Salt Creek	8.11	13.6	7.46	152
18 Devon Avenue, Salt Creek	8.09	14.0	7.55	149
24 Wolf Road, Salt Creek	8.82	12.1	7.30	172
109 Brookfield Avenue, Salt Creek	8.39	12.3	7.69	169
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	8.55	12.2	7.76	149
78 Wille Road, Higgins Creek	8.81	13.8	7.58	204
12 Lake-Cook Road, Buffalo Creek	9.26	10.5	7.37	211
13 Lake-Cook Road, Des Plaines River	8.43	11.1	7.72	201
17 Oakton Street, Des Plaines River	9.38	12.8	7.78	194
19 Belmont Avenue, Des Plaines River	8.34	11.8	7.82	196
20 Roosevelt Road, Des Plaines River	8.60	13.4	7.91	189
22 Ogden Avenue, Des Plaines River	9.14	11.8	7.72	182
23 Willow Springs Road, Des Plaines River	8.80	12.1	7.91	184
29 Stephen Street, Des Plaines River	9.97	12.6	7.90	180
91 Material Service Road, Des Plaines River	9.33	11.7	8.13	184
110 Springinsguth Road, West Branch DuPage River	6.23	13.7	7.53	226

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	Cl mg/L	Turb NTU	TKN mg/L	NH ₄ -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	403	26.9	1.40	0.475
103 Golf Road, West Fork North Branch Chicago River	321	24.1	1.10	0.251
31 Lake-Cook Road, Middle Fork North Branch	219	18.3	0.94	0.094
104 Glenview Road, North Branch Chicago River	222	15.0	0.99	0.126
32 Lake-Cook Road, Skokie River	196	16.2	0.88	0.109
105 Frontage Road, Skokie River	208	14.8	1.01	0.108
34 Dempster Street, North Branch Chicago River	246	17.0	1.08	0.170
96 Albany Avenue, North Branch Chicago River	274	17.4	0.86	0.097
35 Central Street, North Shore Channel	44	8.1	0.45	0.164
102 Oakton Street, North Shore Channel	107	7.9	0.85	0.303
36 Touhy Avenue, North Shore Channel	210	5.1	1.38	0.396
101 Foster Avenue, North Shore Channel	199	4.4	1.37	0.485
37 Wilson Avenue, North Branch Chicago River	218	11.4	1.32	0.433
73 Diversey Parkway, North Branch Chicago River	248	10.6	1.19	0.312
46 Grand Avenue, North Branch Chicago River	195	12.6	1.49	0.519
74 Lake Shore Drive, Chicago River	48	3.8	0.26	0.092
100 Wells Street, Chicago River	84	4.1	0.54	0.175
39 Madison Street, South Branch Chicago River	152	9.7	1.12	0.450
108 Loomis Street, South Branch Chicago River	152	9.7	1.11	0.413
99 Archer Avenue, South Fork South Branch Chicago River	146	8.4	1.66	0.715
40 Damen Avenue, Chicago Sanitary & Ship Canal	154	11.1	1.27	0.484
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	155	11.5	1.12	0.436
41 Harlem Avenue, Chicago Sanitary & Ship Canal	187	6.1	1.41	0.583
42 Route 83, Chicago Sanitary & Ship Canal	174	5.5	1.33	0.497
48 Stephen Street, Chicago Sanitary & Ship Canal	163	11.0	1.27	0.441
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	170	11.1	1.29	0.418
Calumet River System				
49 Ewing Avenue, Calumet River	38	3.6	0.18	0.016
50 Burnham Avenue, Wolf Lake	79	3.5	0.77	0.093
55 130th Street, Calumet River	98	4.3	0.53	0.106
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	148	6.0	2.31	1.014
56 Indiana Avenue, Little Calumet River	100	18.2	0.99	0.324
76 Halsted Street, Little Calumet River	150	8.9	1.22	0.323
52 Wentworth Avenue, Little Calumet River	110	38.2	1.34	0.364
54 Joe Orr Road, Thorn Creek	145	15.8	1.39	0.252
97 170th Street, Thorn Creek	163	21.5	1.18	0.134
57 Ashland Avenue, Little Calumet River	135	25.9	1.03	0.191
58 Ashland Avenue, Calumet-Sag Channel	147	12.9	1.09	0.301
59 Cicero Avenue, Calumet-Sag Channel	136	12.9	1.17	0.258
43 Route 83, Calumet-Sag Channel	139	13.6	1.20	0.314
Des Plaines River System				
90 Route 19, Poplar Creek	215	10.4	0.81	0.052
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	170	5.5	1.53	0.081
64 Lake Street, West Branch DuPage River	188	17.7	1.55	0.153
79 Higgins Road, Salt Creek	258	21.1	1.22	0.063
80 Arlington Heights Road, Salt Creek	248	12.5	1.19	0.028
18 Devon Avenue, Salt Creek	231	12.4	1.11	0.045
24 Wolf Road, Salt Creek	244	17.0	1.09	0.117
109 Brookfield Avenue, Salt Creek	231	18.9	1.11	0.116
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	305	18.9	0.93	0.135
78 Wille Road, Higgins Creek	233	4.0	1.22	0.268
12 Lake-Cook Road, Buffalo Creek	218	21.4	1.12	0.060
13 Lake-Cook Road, Des Plaines River	148	20.9	1.10	0.097
17 Oakton Street, Des Plaines River	154	21.5	1.16	0.071
19 Belmont Avenue, Des Plaines River	173	21.6	1.07	0.086
20 Roosevelt Road, Des Plaines River	164	22.7	1.11	0.057
22 Ogden Avenue, Des Plaines River	173	23.8	1.11	0.079
23 Willow Springs Road, Des Plaines River	177	23.7	1.19	0.113
29 Stephen Street, Des Plaines River	172	24.8	1.01	0.054
91 Material Service Road, Des Plaines River	185	22.0	1.08	0.080
110 Springinguth Road, West Branch DuPage River	254	25.1	2.28	0.563

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	NH ₃ -N ¹ mg/L	ORG-N mg/L	NO ₂ + NO ₃ mg/L	TS 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	0.002	0.92	6.78	988
103 Golf Road, West Fork North Branch Chicago River	0.002	0.85	3.04	861
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.84	0.23	659
104 Glenview Road, North Branch Chicago River	0.002	0.86	3.95	695
32 Lake-Cook Road, Skokie River	0.001	0.77	0.35	637
105 Frontage Road, Skokie River	0.001	0.90	5.15	664
34 Dempster Street, North Branch Chicago River	0.002	0.91	3.43	720
96 Albany Avenue, North Branch Chicago River	0.002	0.76	3.60	773
35 Central Street, North Shore Channel	0.001	0.28	0.33	269
102 Oakton Street, North Shore Channel	0.003	0.56	2.73	407
36 Touhy Avenue, North Shore Channel	0.002	0.98	6.47	628
101 Foster Avenue, North Shore Channel	0.004	0.89	7.44	600
37 Wilson Avenue, North Branch Chicago River	0.004	0.89	6.93	630
73 Diversey Parkway, North Branch Chicago River	0.002	0.88	6.69	691
46 Grand Avenue, North Branch Chicago River	0.005	0.97	5.79	592
74 Lake Shore Drive, Chicago River	0.001	0.18	0.57	244
100 Wells Street, Chicago River	0.002	0.37	1.94	330
39 Madison Street, South Branch Chicago River	0.003	0.67	4.58	496
108 Loomis Street, South Branch Chicago River	0.004	0.70	4.71	505
99 Archer Avenue, South Fork South Branch Chicago River	0.004	0.95	3.32	491
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.005	0.79	4.56	501
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.002	0.68	3.95	502
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.83	6.35	579
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.83	5.29	568
48 Stephen Street, Chicago Sanitary & Ship Canal	0.003	0.83	4.92	545
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.004	0.87	5.34	604
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.16	0.33	234
50 Burnham Avenue, Wolf Lake	0.002	0.67	0.06	304
55 130th Street, Calumet River	0.003	0.43	0.55	396
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.007	1.29	4.45	782
56 Indiana Avenue, Little Calumet River	0.005	0.67	0.86	440
76 Halsted Street, Little Calumet River	0.002	0.90	4.56	579
52 Wentworth Avenue, Little Calumet River	0.011	0.98	3.83	611
54 Joe Orr Road, Thorn Creek	0.001	1.13	9.28	1267
97 170th Street, Thorn Creek	0.003	1.05	5.30	983
57 Ashland Avenue, Little Calumet River	0.004	0.84	3.22	743
58 Ashland Avenue, Calumet-Sag Channel	0.003	0.79	4.02	574
59 Cicero Avenue, Calumet-Sag Channel	0.002	0.92	3.54	577
43 Route 83, Calumet-Sag Channel	0.003	0.88	3.76	583
Des Plaines River System				
90 Route 19, Poplar Creek	0.002	0.76	0.28	666
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.001	1.45	10.32	606
64 Lake Street, West Branch DuPage River	0.001	1.40	8.91	664
79 Higgins Road, Salt Creek	0.001	1.16	1.28	725
80 Arlington Heights Road, Salt Creek	0.000	1.16	7.72	721
18 Devon Avenue, Salt Creek	0.000	1.07	7.60	674
24 Wolf Road, Salt Creek	0.001	0.98	6.08	752
109 Brookfield Avenue, Salt Creek	0.001	1.00	5.18	715
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.003	0.79	0.41	721
78 Wille Road, Higgins Creek	0.004	0.95	8.26	788
12 Lake-Cook Road, Buffalo Creek	0.000	1.06	0.40	717
13 Lake-Cook Road, Des Plaines River	0.002	1.00	4.68	569
17 Oakton Street, Des Plaines River	0.002	1.09	3.90	571
19 Belmont Avenue, Des Plaines River	0.001	0.99	4.27	617
20 Roosevelt Road, Des Plaines River	0.001	1.05	3.84	608
22 Ogden Avenue, Des Plaines River	0.001	1.04	4.04	617
23 Willow Springs Road, Des Plaines River	0.010	1.08	3.74	621
29 Stephen Street, Des Plaines River	0.004	0.96	3.66	623
91 Material Service Road, Des Plaines River	0.001	1.00	3.78	636
110 Springinguth Road, West Branch DuPage River	0.006	1.72	0.64	786

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	TSS mg/L	VSS mg/L	TDS mg/L	Phenol µg/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	33.3	7.55	955	0.5
103 Golf Road, West Fork North Branch Chicago River	28.1	7.82	833	0.5
31 Lake-Cook Road, Middle Fork North Branch	21.9	4.50	637	0.0
104 Glenview Road, North Branch Chicago River	19.4	5.58	676	0.0
32 Lake-Cook Road, Skokie River	21.4	4.80	615	0.0
105 Frontage Road, Skokie River	20.9	6.75	643	0.4
34 Dempster Street, North Branch Chicago River	21.4	5.92	699	0.0
96 Albany Avenue, North Branch Chicago River	22.3	4.83	751	0.0
35 Central Street, North Shore Channel	10.3	2.89	258	0.0
102 Oakton Street, North Shore Channel	13.8	4.09	394	0.0
36 Touhy Avenue, North Shore Channel	8.4	4.44	614	0.0
101 Foster Avenue, North Shore Channel	9.3	4.50	591	0.0
37 Wilson Avenue, North Branch Chicago River	15.9	4.83	614	0.0
73 Diversey Parkway, North Branch Chicago River	14.4	3.33	676	0.0
46 Grand Avenue, North Branch Chicago River	16.9	3.67	575	0.0
74 Lake Shore Drive, Chicago River	4.7	0.67	240	0.0
100 Wells Street, Chicago River	5.7	1.55	324	0.0
39 Madison Street, South Branch Chicago River	12.6	3.73	483	0.0
108 Loomis Street, South Branch Chicago River	13.1	3.42	492	0.0
99 Archer Avenue, South Fork South Branch Chicago River	12.0	5.91	479	0.5
40 Damen Avenue, Chicago Sanitary & Ship Canal	15.4	4.55	485	0.0
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	16.8	4.75	485	0.0
41 Harlem Avenue, Chicago Sanitary & Ship Canal	9.7	4.08	570	0.0
42 Route 83, Chicago Sanitary & Ship Canal	10.7	3.80	557	0.0
48 Stephen Street, Chicago Sanitary & Ship Canal	14.0	4.40	531	0.0
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	15.8	3.82	588	0.0
Calumet River System				
49 Ewing Avenue, Calumet River	5.0	1.00	229	0.0
50 Burnham Avenue, Wolf Lake	6.6	3.50	297	0.0
55 130th Street, Calumet River	8.4	1.78	387	0.0
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	13.8	4.40	768	1.4
56 Indiana Avenue, Little Calumet River	19.3	3.13	421	0.0
76 Halsted Street, Little Calumet River	12.5	3.82	566	0.0
52 Wentworth Avenue, Little Calumet River	51.0	8.50	560	0.0
54 Joe Orr Road, Thorn Creek	20.1	4.44	1247	0.0
97 170th Street, Thorn Creek	40.3	6.67	943	0.0
57 Ashland Avenue, Little Calumet River	35.3	6.56	708	0.0
58 Ashland Avenue, Calumet-Sag Channel	17.4	3.73	557	0.0
59 Cicero Avenue, Calumet-Sag Channel	22.0	4.20	555	0.0
43 Route 83, Calumet-Sag Channel	23.5	3.80	559	0.0
Des Plaines River System				
90 Route 19, Poplar Creek	14.1	3.64	652	0.0
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	11.8	5.42	594	0.0
64 Lake Street, West Branch DuPage River	26.3	7.58	638	0.0
79 Higgins Road, Salt Creek	24.4	7.50	701	0.0
80 Arlington Heights Road, Salt Creek	13.8	4.83	708	0.0
18 Devon Avenue, Salt Creek	16.7	5.18	657	0.0
24 Wolf Road, Salt Creek	24.1	4.92	728	0.4
109 Brookfield Avenue, Salt Creek	25.5	5.64	690	0.0
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	18.8	7.25	703	0.0
78 Wille Road, Higgins Creek	7.0	2.92	781	0.0
12 Lake-Cook Road, Buffalo Creek	27.1	6.33	690	0.0
13 Lake-Cook Road, Des Plaines River	20.1	5.42	549	0.0
17 Oakton Street, Des Plaines River	22.3	5.45	549	0.0
19 Belmont Avenue, Des Plaines River	23.0	5.83	594	0.0
20 Roosevelt Road, Des Plaines River	24.3	5.45	584	0.0
22 Ogden Avenue, Des Plaines River	27.6	6.27	590	0.0
23 Willow Springs Road, Des Plaines River	26.2	6.45	595	0.0
29 Stephen Street, Des Plaines River	29.5	7.45	593	0.0
91 Material Service Road, Des Plaines River	26.3	7.75	610	0.0
110 Springinguth Road, West Branch DuPage River	22.8	7.22	763	0.0

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	TNP μg/L	SO ₄ mg/L	FOG mg/L	TP 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	ND	47.4	ND	1.260
103 Golf Road, West Fork North Branch Chicago River	ND	56.2	ND	0.397
31 Lake-Cook Road, Middle Fork North Branch	ND	45.1	ND	0.016
104 Glenview Road, North Branch Chicago River	ND	53.0	ND	0.659
32 Lake-Cook Road, Skokie River	ND	51.0	ND	0.019
105 Frontage Road, Skokie River	ND	55.0	ND	0.883
34 Dempster Street, North Branch Chicago River	ND	51.9	ND	0.550
96 Albany Avenue, North Branch Chicago River	ND	54.3	ND	0.538
35 Central Street, North Shore Channel	ND	27.2	ND	0.077
102 Oakton Street, North Shore Channel	0.00	38.0	0.00	0.442
36 Touhy Avenue, North Shore Channel	0.00	47.9	0.00	1.054
101 Foster Avenue, North Shore Channel	ND	46.8	0.00	1.113
37 Wilson Avenue, North Branch Chicago River	ND	46.7	0.00	1.031
73 Diversey Parkway, North Branch Chicago River	ND	47.9	0.00	0.931
46 Grand Avenue, North Branch Chicago River	0.00	45.8	0.00	0.836
74 Lake Shore Drive, Chicago River	ND	26.3	ND	0.003
100 Wells Street, Chicago River	ND	32.0	ND	0.150
39 Madison Street, South Branch Chicago River	ND	42.1	0.00	0.669
108 Loomis Street, South Branch Chicago River	ND	43.9	0.00	0.574
99 Archer Avenue, South Fork South Branch Chicago River	ND	41.8	0.00	0.485
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	43.1	0.00	0.611
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.00	41.9	0.00	0.493
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.00	56.2	0.00	0.673
42 Route 83, Chicago Sanitary & Ship Canal	ND	60.9	0.00	0.609
48 Stephen Street, Chicago Sanitary & Ship Canal	0.00	65.8	0.00	0.823
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.00	76.2	0.22	0.864
Calumet River System				
49 Ewing Avenue, Calumet River	ND	26.6	ND	0.000
50 Burnham Avenue, Wolf Lake	ND	47.5	ND	0.004
55 130th Street, Calumet River	ND	61.9	ND	0.004
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	145.6	0.00	0.290
56 Indiana Avenue, Little Calumet River	0.00	64.4	0.00	0.010
76 Halsted Street, Little Calumet River	0.00	76.4	0.00	1.493
52 Wentworth Avenue, Little Calumet River	ND	98.1	ND	0.493
54 Joe Orr Road, Thorn Creek	ND	506.7	ND	1.743
97 170th Street, Thorn Creek	ND	298.3	ND	1.144
57 Ashland Avenue, Little Calumet River	0.00	166.0	ND	0.519
58 Ashland Avenue, Calumet-Sag Channel	ND	88.7	0.00	1.412
59 Cicero Avenue, Calumet-Sag Channel	0.00	99.3	0.00	1.258
43 Route 83, Calumet-Sag Channel	ND	93.7	9.80	1.329
Des Plaines River System				
90 Route 19, Poplar Creek	ND	42.0	ND	0.012
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.00	60.0	ND	2.340
64 Lake Street, West Branch DuPage River	0.00	61.0	ND	1.747
79 Higgins Road, Salt Creek	0.00	62.4	ND	0.253
80 Arlington Heights Road, Salt Creek	0.00	62.5	ND	1.588
18 Devon Avenue, Salt Creek	ND	61.6	ND	1.563
24 Wolf Road, Salt Creek	0.00	77.3	ND	1.122
109 Brookfield Avenue, Salt Creek	ND	71.7	ND	0.944
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.00	36.3	ND	0.035
78 Wille Road, Higgins Creek	0.00	81.7	ND	0.936
12 Lake-Cook Road, Buffalo Creek	ND	69.5	ND	0.012
13 Lake-Cook Road, Des Plaines River	ND	49.4	ND	0.566
17 Oakton Street, Des Plaines River	ND	52.0	ND	0.502
19 Belmont Avenue, Des Plaines River	ND	57.5	ND	0.532
20 Roosevelt Road, Des Plaines River	ND	54.4	ND	0.475
22 Ogden Avenue, Des Plaines River	0.00	56.9	ND	0.631
23 Willow Springs Road, Des Plaines River	ND	58.0	ND	0.535
29 Stephen Street, Des Plaines River	ND	57.3	ND	0.535
91 Material Service Road, Des Plaines River	ND	61.0	ND	0.552
110 Springinguth Road, West Branch DuPage River	ND	64.2	ND	0.093

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	CN mg/L	WAD-CN mg/L	F mg/L	TOC 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	0.002	0.000	0.476	4.75
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.355	4.53
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.202	6.01
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.418	4.65
32 Lake-Cook Road, Skokie River	0.001	0.000	0.225	5.09
105 Frontage Road, Skokie River	0.000	0.000	0.466	4.37
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.383	4.63
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.392	4.51
35 Central Street, North Shore Channel	0.000	0.000	0.037	2.71
102 Oakton Street, North Shore Channel	0.000	0.000	0.272	3.26
36 Touhy Avenue, North Shore Channel	0.001	0.000	0.614	4.16
101 Foster Avenue, North Shore Channel	0.001	0.000	0.614	3.98
37 Wilson Avenue, North Branch Chicago River	0.001	0.000	0.543	4.02
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.575	3.89
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.529	4.13
74 Lake Shore Drive, Chicago River	0.000	0.000	0.066	2.23
100 Wells Street, Chicago River	0.000	0.000	0.196	2.53
39 Madison Street, South Branch Chicago River	0.000	0.000	0.461	3.60
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.463	3.43
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.456	3.76
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.463	3.68
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.418	3.51
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.564	4.32
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.570	4.27
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.000	0.519	4.37
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.532	4.44
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	1.74
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.354	4.35
55 130th Street, Calumet River	0.000	0.000	0.184	3.00
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.768	6.76
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.235	3.70
76 Halsted Street, Little Calumet River	0.000	0.000	0.521	4.44
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.858	6.61
54 Joe Orr Road, Thorn Creek	0.001	0.000	0.564	6.41
97 170th Street, Thorn Creek	0.000	0.000	0.471	5.59
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.766	5.99
58 Ashland Avenue, Calumet-Sag Channel	0.001	0.000	0.514	4.70
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.499	4.71
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.457	4.70
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.000	0.155	5.14
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.001	0.000	0.610	6.53
64 Lake Street, West Branch DuPage River	0.000	0.000	0.483	6.18
79 Higgins Road, Salt Creek	0.000	0.000	0.155	6.03
80 Arlington Heights Road, Salt Creek	0.001	0.000	0.458	5.47
18 Devon Avenue, Salt Creek	0.001	0.000	0.445	5.33
24 Wolf Road, Salt Creek	0.000	0.000	0.408	4.77
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.395	4.83
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.085	5.28
78 Wille Road, Higgins Creek	0.000	0.000	0.627	5.12
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.044	6.41
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.325	6.04
17 Oakton Street, Des Plaines River	0.000	0.000	0.292	6.06
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.355	5.77
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.335	5.85
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.345	5.58
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.332	5.55
29 Stephen Street, Des Plaines River	0.000	0.000	0.328	5.51
91 Material Service Road, Des Plaines River	0.000	0.000	0.313	5.41
110 Springinsguth Road, West Branch DuPage River	0.001	0.000	0.233	9.94

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	FC ² cfu/100mL	EColi ² cfu/100mL	Ca mg/L	Mg 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	1818	2068	68.2	28.2
103 Golf Road, West Fork North Branch Chicago River	1083	968	66.4	26.4
31 Lake-Cook Road, Middle Fork North Branch	586	466	57.6	24.6
104 Glenview Road, North Branch Chicago River	372	240	61.5	25.8
32 Lake-Cook Road, Skokie River	655	344	62.7	25.4
105 Frontage Road, Skokie River	169	247	62.2	26.1
34 Dempster Street, North Branch Chicago River	695	343	61.2	25.1
96 Albany Avenue, North Branch Chicago River	420	148	65.4	26.3
35 Central Street, North Shore Channel	80	53	37.1	12.5
102 Oakton Street, North Shore Channel	343	362	47.2	16.4
36 Touhy Avenue, North Shore Channel	8040	6119	60.2	21.0
101 Foster Avenue, North Shore Channel	5021	4701	58.0	20.1
37 Wilson Avenue, North Branch Chicago River	5461	5609	57.9	20.8
73 Diversey Parkway, North Branch Chicago River	3818	4607	58.4	20.8
46 Grand Avenue, North Branch Chicago River	1706	1599	56.4	20.0
74 Lake Shore Drive, Chicago River	241	38	36.8	12.4
100 Wells Street, Chicago River	189	93	43.8	15.1
39 Madison Street, South Branch Chicago River	904	973	53.5	19.1
108 Loomis Street, South Branch Chicago River	334	201	55.1	19.8
99 Archer Avenue, South Fork South Branch Chicago River	384	164	52.1	18.1
40 Damen Avenue, Chicago Sanitary & Ship Canal	283	260	53.5	19.5
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	202	161	52.9	18.7
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3321	1669	56.9	20.0
42 Route 83, Chicago Sanitary & Ship Canal	573	399	57.0	20.1
48 Stephen Street, Chicago Sanitary & Ship Canal	448	379	56.4	19.9
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	216	175	57.8	20.6
Calumet River System				
49 Ewing Avenue, Calumet River	11	10	35.9	11.7
50 Burnham Avenue, Wolf Lake	26	23	36.1	11.8
55 130th Street, Calumet River		14	43.3	14.4
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1158	1302	82.4	36.9
56 Indiana Avenue, Little Calumet River	74	257	50.2	17.2
76 Halsted Street, Little Calumet River	2262	2486	62.5	21.5
52 Wentworth Avenue, Little Calumet River	2935	1724	75.1	28.4
54 Joe Orr Road, Thorn Creek	2335	1428	75.7	28.2
97 170th Street, Thorn Creek	756	815	75.8	29.9
57 Ashland Avenue, Little Calumet River	563	285	70.9	27.0
58 Ashland Avenue, Calumet-Sag Channel	1407	943	61.8	21.6
59 Cicero Avenue, Calumet-Sag Channel	377	193	61.8	22.1
43 Route 83, Calumet-Sag Channel	106	46	61.0	21.9
Des Plaines River System				
90 Route 19, Poplar Creek	138	118	67.3	28.7
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	451	399	66.1	25.1
64 Lake Street, West Branch DuPage River	538	399	65.0	24.4
79 Higgins Road, Salt Creek	97	63	62.2	26.3
80 Arlington Heights Road, Salt Creek	184	76	61.5	23.3
18 Devon Avenue, Salt Creek	328	134	60.7	23.0
24 Wolf Road, Salt Creek	398	232	68.5	26.6
109 Brookfield Avenue, Salt Creek	615	367	66.0	25.8
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1296	660	51.0	18.2
78 Wille Road, Higgins Creek	475	315	79.1	28.9
12 Lake-Cook Road, Buffalo Creek	99	117	69.5	29.5
13 Lake-Cook Road, Des Plaines River	193	320	62.1	27.3
17 Oakton Street, Des Plaines River	208	352	61.2	26.4
19 Belmont Avenue, Des Plaines River	301	399	63.3	26.8
20 Roosevelt Road, Des Plaines River	511	953	61.6	26.2
22 Ogden Avenue, Des Plaines River	356	579	61.5	25.7
23 Willow Springs Road, Des Plaines River	217	295	61.8	26.0
29 Stephen Street, Des Plaines River	129	197	61.8	25.8
91 Material Service Road, Des Plaines River	83	103	63.6	26.3
110 Springinguth Road, West Branch DuPage River	2621	1719	74.8	27.1

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	Hard mg/L	Alpha pCi/L	Beta pCi/L	Chlrphl µg/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	286	4.53	7.18	7.2
103 Golf Road, West Fork North Branch Chicago River	274	4.20	6.97	7.5
31 Lake-Cook Road, Middle Fork North Branch	245	2.76	5.56	5.1
104 Glenview Road, North Branch Chicago River	260	3.62	6.32	5.9
32 Lake-Cook Road, Skokie River	261	2.71	5.40	6.2
105 Frontage Road, Skokie River	263	3.32	6.50	9.7
34 Dempster Street, North Branch Chicago River	256	3.61	5.74	5.6
96 Albany Avenue, North Branch Chicago River	272	3.93	6.02	7.1
35 Central Street, North Shore Channel	144	1.62	5.08	9.9
102 Oakton Street, North Shore Channel	185	2.57	5.40	11.3
36 Touhy Avenue, North Shore Channel	237	3.25	6.29	2.0
101 Foster Avenue, North Shore Channel	228	ND	ND	1.9
37 Wilson Avenue, North Branch Chicago River	230	ND	ND	2.8
73 Diversey Parkway, North Branch Chicago River	231	ND	ND	2.2
46 Grand Avenue, North Branch Chicago River	223	ND	ND	2.7
74 Lake Shore Drive, Chicago River	143	1.64	4.94	1.3
100 Wells Street, Chicago River	172	2.57	5.04	1.6
39 Madison Street, South Branch Chicago River	212	ND	ND	1.9
108 Loomis Street, South Branch Chicago River	219	ND	ND	2.0
99 Archer Avenue, South Fork South Branch Chicago River	205	ND	ND	8.9
40 Damen Avenue, Chicago Sanitary & Ship Canal	214	ND	ND	7.7
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	209	4.73	5.64	3.0
41 Harlem Avenue, Chicago Sanitary & Ship Canal	224	2.96	6.32	1.9
42 Route 83, Chicago Sanitary & Ship Canal	225	ND	ND	2.9
48 Stephen Street, Chicago Sanitary & Ship Canal	223	ND	ND	5.2
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	229	3.79	6.81	5.6
Calumet River System				
49 Ewing Avenue, Calumet River	138	1.94	4.72	2.1
50 Burnham Avenue, Wolf Lake	139	1.81	5.49	5.4
55 130th Street, Calumet River	167	2.58	5.66	6.3
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	358	ND	ND	30.8
56 Indiana Avenue, Little Calumet River	196	2.82	5.59	27.0
76 Halsted Street, Little Calumet River	245	2.77	6.66	12.6
52 Wentworth Avenue, Little Calumet River	304	2.84	5.99	7.7
54 Joe Orr Road, Thorn Creek	305	4.56	8.36	4.8
97 170th Street, Thorn Creek	312	4.30	8.02	9.4
57 Ashland Avenue, Little Calumet River	288	3.88	6.86	10.5
58 Ashland Avenue, Calumet-Sag Channel	243	ND	ND	11.3
59 Cicero Avenue, Calumet-Sag Channel	245	ND	ND	12.4
43 Route 83, Calumet-Sag Channel	243	ND	ND	9.0
Des Plaines River System				
90 Route 19, Poplar Creek	286	3.04	5.83	9.0
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	268	3.29	9.31	5.9
64 Lake Street, West Branch DuPage River	263	3.05	8.23	18.8
79 Higgins Road, Salt Creek	264	3.34	5.91	21.3
80 Arlington Heights Road, Salt Creek	249	2.84	6.24	13.6
18 Devon Avenue, Salt Creek	246	2.75	6.61	15.0
24 Wolf Road, Salt Creek	280	3.41	7.12	8.0
109 Brookfield Avenue, Salt Creek	271	4.66	7.30	9.5
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	203	2.37	4.99	8.4
78 Wille Road, Higgins Creek	317	3.50	7.56	2.2
12 Lake-Cook Road, Buffalo Creek	295	3.11	5.44	18.6
13 Lake-Cook Road, Des Plaines River	267	2.88	7.12	10.7
17 Oakton Street, Des Plaines River	261	2.50	6.18	19.2
19 Belmont Avenue, Des Plaines River	268	3.08	5.57	13.7
20 Roosevelt Road, Des Plaines River	262	2.30	6.23	20.1
22 Ogden Avenue, Des Plaines River	259	3.23	7.07	19.7
23 Willow Springs Road, Des Plaines River	261	3.10	6.19	27.5
29 Stephen Street, Des Plaines River	261	3.22	6.25	29.9
91 Material Service Road, Des Plaines River	267	3.43	7.02	24.1
110 Springinsguth Road, West Branch DuPage River	298	3.90	5.60	14.0

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	Bnzn μg/L	Ebnzn μg/L	ToIn μg/L	XyIn μg/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	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.333	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	1.033	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.483	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.467	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	Ag mg/L	As mg/L	Ba mg/L	B 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	0.060	0.160
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.048	0.113
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.036	0.074
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.032	0.107
32 Lake-Cook Road, Skokie River	0.000	0.000	0.038	0.093
105 Frontage Road, Skokie River	0.000	0.000	0.030	0.124
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.035	0.103
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.037	0.112
35 Central Street, North Shore Channel	0.000	0.000	0.021	0.011
102 Oakton Street, North Shore Channel	0.000	0.000	0.023	0.070
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.026	0.151
101 Foster Avenue, North Shore Channel	0.000	0.000	0.025	0.147
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.027	0.128
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.027	0.123
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.027	0.116
74 Lake Shore Drive, Chicago River	0.000	0.000	0.022	0.023
100 Wells Street, Chicago River	0.000	0.000	0.024	0.045
39 Madison Street, South Branch Chicago River	0.000	0.000	0.027	0.102
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.027	0.103
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.026	0.099
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.027	0.101
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.027	0.095
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.023	0.145
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.022	0.164
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.023	0.153
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.024	0.162
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.000	0.022	0.017
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.034	0.238
55 130th Street, Calumet River	0.000	0.000	0.029	0.111
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.028	0.345
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.033	0.122
76 Halsted Street, Little Calumet River	0.000	0.000	0.025	0.171
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.039	0.169
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.029	0.256
97 170th Street, Thorn Creek	0.000	0.000	0.037	0.207
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.037	0.191
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.027	0.163
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.027	0.154
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.027	0.148
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.000	0.062	0.024
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.029	0.203
64 Lake Street, West Branch DuPage River	0.000	0.000	0.034	0.149
79 Higgins Road, Salt Creek	0.000	0.000	0.041	0.079
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.027	0.145
18 Devon Avenue, Salt Creek	0.000	0.000	0.028	0.135
24 Wolf Road, Salt Creek	0.000	0.000	0.034	0.145
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.034	0.150
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.043	0.055
78 Wille Road, Higgins Creek	0.000	0.000	0.029	0.193
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.042	0.091
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.033	0.117
17 Oakton Street, Des Plaines River	0.000	0.000	0.035	0.101
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.034	0.112
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.034	0.107
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.034	0.121
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.033	0.116
29 Stephen Street, Des Plaines River	0.000	0.000	0.033	0.110
91 Material Service Road, Des Plaines River	0.000	0.000	0.033	0.116
110 Springinsguth Road, West Branch DuPage River	0.000	0.000	0.045	0.075

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	Cd mg/L	Cu mg/L	Cr mg/L	Cr ⁺⁶ µg/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	0.003	0.002	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	0.001	0.002	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.001	0.002	0.000
32 Lake-Cook Road, Skokie River	0.000	0.001	0.001	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.002	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	0.000
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.001	0.000
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.001	0.001	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.002	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000
39 Madison Street, South Branch Chicago River	0.000	0.000	0.001	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.001	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.001	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.002	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.003	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.002	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.002	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.003	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.003	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.001	0.000
55 130th Street, Calumet River	0.000	0.000	0.001	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.002	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.002	0.004	0.000
76 Halsted Street, Little Calumet River	0.000	0.028	0.001	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.003	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.001	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.001	0.000
57 Ashland Avenue, Little Calumet River	0.000	0.007	0.003	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.013	0.001	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.001	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.001	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.000	0.001	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.003	0.002	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.001	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.002	0.000
18 Devon Avenue, Salt Creek	0.000	0.001	0.002	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.002	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.001	0.001	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.002	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.001	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.004	0.000
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.002	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.006	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.002	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.002	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.002	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.002	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.001	0.000
110 Springingsuth Road, West Branch DuPage River	0.000	0.000	0.001	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	Fe mg/L	Pb mg/L	Ni mg/L	Mn 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	1.346	0.022	0.000	0.080
103 Golf Road, West Fork North Branch Chicago River	1.029	0.012	0.001	0.076
31 Lake-Cook Road, Middle Fork North Branch	0.894	0.009	0.000	0.078
104 Glenview Road, North Branch Chicago River	0.885	0.019	0.000	0.087
32 Lake-Cook Road, Skokie River	0.976	0.011	0.000	0.085
105 Frontage Road, Skokie River	0.631	0.018	0.000	0.056
34 Dempster Street, North Branch Chicago River	0.828	0.016	0.000	0.067
96 Albany Avenue, North Branch Chicago River	0.797	0.018	0.000	0.060
35 Central Street, North Shore Channel	0.278	0.009	0.000	0.019
102 Oakton Street, North Shore Channel	0.340	0.010	0.000	0.024
36 Touhy Avenue, North Shore Channel	0.173	0.020	0.000	0.016
101 Foster Avenue, North Shore Channel	0.182	0.017	0.001	0.024
37 Wilson Avenue, North Branch Chicago River	0.458	0.016	0.000	0.028
73 Diversey Parkway, North Branch Chicago River	0.478	0.016	0.001	0.034
46 Grand Avenue, North Branch Chicago River	0.546	0.016	0.002	0.036
74 Lake Shore Drive, Chicago River	0.103	0.003	0.000	0.013
100 Wells Street, Chicago River	0.182	0.004	0.000	0.018
39 Madison Street, South Branch Chicago River	0.410	0.004	0.000	0.026
108 Loomis Street, South Branch Chicago River	0.437	0.013	0.000	0.032
99 Archer Avenue, South Fork South Branch Chicago River	0.460	0.006	0.000	0.046
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.460	0.007	0.000	0.030
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.523	0.011	0.000	0.029
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.340	0.010	0.000	0.034
42 Route 83, Chicago Sanitary & Ship Canal	0.307	0.013	0.000	0.022
48 Stephen Street, Chicago Sanitary & Ship Canal	0.506	0.013	0.000	0.041
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.561	0.013	0.000	0.041
Calumet River System				
49 Ewing Avenue, Calumet River	0.173	0.000	0.000	0.030
50 Burnham Avenue, Wolf Lake	0.117	0.002	0.000	0.047
55 130th Street, Calumet River	0.183	0.000	0.000	0.031
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1.010	0.004	0.000	0.088
56 Indiana Avenue, Little Calumet River	0.650	0.000	0.000	0.052
76 Halsted Street, Little Calumet River	0.381	0.009	0.000	0.037
52 Wentworth Avenue, Little Calumet River	1.980	0.006	0.000	0.119
54 Joe Orr Road, Thorn Creek	0.739	0.004	0.000	0.062
97 170th Street, Thorn Creek	1.223	0.004	0.000	0.092
57 Ashland Avenue, Little Calumet River	1.307	0.002	0.000	0.116
58 Ashland Avenue, Calumet-Sag Channel	0.606	0.008	0.000	0.053
59 Cicero Avenue, Calumet-Sag Channel	0.643	0.002	0.000	0.049
43 Route 83, Calumet-Sag Channel	0.784	0.003	0.000	0.053
Des Plaines River System				
90 Route 19, Poplar Creek	0.750	0.013	0.000	0.076
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.334	0.015	0.003	0.035
64 Lake Street, West Branch DuPage River	0.807	0.014	0.004	0.099
79 Higgins Road, Salt Creek	1.223	0.002	0.000	0.104
80 Arlington Heights Road, Salt Creek	0.538	0.015	0.000	0.046
18 Devon Avenue, Salt Creek	0.619	0.011	0.000	0.056
24 Wolf Road, Salt Creek	0.909	0.014	0.000	0.061
109 Brookfield Avenue, Salt Creek	0.934	0.015	0.000	0.059
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.770	0.000	0.000	0.092
78 Wille Road, Higgins Creek	0.137	0.016	0.000	0.032
12 Lake-Cook Road, Buffalo Creek	1.227	0.019	0.001	0.117
13 Lake-Cook Road, Des Plaines River	0.976	0.014	0.000	0.064
17 Oakton Street, Des Plaines River	1.019	0.012	0.002	0.068
19 Belmont Avenue, Des Plaines River	0.971	0.015	0.002	0.062
20 Roosevelt Road, Des Plaines River	1.030	0.014	0.000	0.062
22 Ogden Avenue, Des Plaines River	1.055	0.012	0.000	0.051
23 Willow Springs Road, Des Plaines River	0.992	0.012	0.000	0.055
29 Stephen Street, Des Plaines River	1.074	0.012	0.000	0.058
91 Material Service Road, Des Plaines River	0.862	0.014	0.500	0.054
110 Springinsguth Road, West Branch DuPage River	1.387	0.002	0.000	0.125

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	Hg μg/L	Hg- ηg/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	0.000	6.9	0.027	0.011
103 Golf Road, West Fork North Branch Chicago River	0.000	11.0	0.012	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.000	3.2	0.005	0.000
104 Glenview Road, North Branch Chicago River	0.000	3.8	0.053	0.000
32 Lake-Cook Road, Skokie River	0.000	6.5	0.009	0.000
105 Frontage Road, Skokie River	0.000	3.7	0.023	0.000
34 Dempster Street, North Branch Chicago River	0.000	5.3	0.015	0.000
96 Albany Avenue, North Branch Chicago River	0.000	6.3	0.018	0.000
35 Central Street, North Shore Channel	0.000	2.3	0.009	0.013
102 Oakton Street, North Shore Channel	0.000	4.9	0.013	0.012
36 Touhy Avenue, North Shore Channel	0.000	ND	0.027	0.000
101 Foster Avenue, North Shore Channel	0.000	4.4	0.026	0.000
37 Wilson Avenue, North Branch Chicago River	0.000	4.5	0.025	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	5.9	0.025	0.000
46 Grand Avenue, North Branch Chicago River	0.000	12.0	0.029	0.000
74 Lake Shore Drive, Chicago River	0.000	1.7	0.007	0.000
100 Wells Street, Chicago River	0.000	2.9	0.012	0.000
39 Madison Street, South Branch Chicago River	0.000	ND	0.028	0.000
108 Loomis Street, South Branch Chicago River	0.000	1.1	0.030	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.000	3.1	0.023	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	ND	0.030	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	ND	0.026	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	ND	0.029	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	ND	0.028	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	ND	0.028	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	6.1	0.029	0.004
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	2.1	0.008	0.014
50 Burnham Avenue, Wolf Lake	0.000	1.9	0.009	0.000
55 130th Street, Calumet River	0.000	2.1	0.005	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	ND	0.049	0.000
56 Indiana Avenue, Little Calumet River	0.000	1.4	0.015	0.000
76 Halsted Street, Little Calumet River	0.000	ND	0.032	0.010
52 Wentworth Avenue, Little Calumet River	0.000	8.3	0.027	0.013
54 Joe Orr Road, Thorn Creek	0.000	4.9	0.042	0.013
97 170th Street, Thorn Creek	0.000	8.3	0.029	0.011
57 Ashland Avenue, Little Calumet River	0.000	8.1	0.033	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	ND	0.033	0.013
59 Cicero Avenue, Calumet-Sag Channel	0.000	1.8	0.024	0.013
43 Route 83, Calumet-Sag Channel	0.000	4.6	0.026	0.013
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	2.0	0.003	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	3.4	0.038	0.000
64 Lake Street, West Branch DuPage River	0.000	3.3	0.035	0.000
79 Higgins Road, Salt Creek	0.000	3.4	0.008	0.000
80 Arlington Heights Road, Salt Creek	0.000	2.5	0.023	0.000
18 Devon Avenue, Salt Creek	0.000	2.7	0.023	0.000
24 Wolf Road, Salt Creek	0.000	4.9	0.030	0.000
109 Brookfield Avenue, Salt Creek	0.000	7.3	0.028	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	5.8	0.021	0.000
78 Wille Road, Higgins Creek	0.000	2.3	0.036	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	4.0	0.017	0.000
13 Lake-Cook Road, Des Plaines River	0.000	2.8	0.019	0.000
17 Oakton Street, Des Plaines River	0.000	3.5	0.016	0.000
19 Belmont Avenue, Des Plaines River	0.000	3.4	0.020	0.000
20 Roosevelt Road, Des Plaines River	0.000	4.4	0.023	0.000
22 Ogden Avenue, Des Plaines River	0.000	5.5	0.021	0.009
23 Willow Springs Road, Des Plaines River	0.000	5.2	0.020	0.000
29 Stephen Street, Des Plaines River	0.000	5.1	0.021	0.000
91 Material Service Road, Des Plaines River	0.000	4.9	0.020	0.000
110 Springinsguth Road, West Branch DuPage River	0.000	3.3	0.018	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

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	65.8	27.8	0.000	0.000
103 Golf Road, West Fork North Branch Chicago River	65.2	26.3	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	55.7	24.3	0.000	0.000
104 Glenview Road, North Branch Chicago River	59.7	25.6	0.000	0.000
32 Lake-Cook Road, Skokie River	61.4	25.5	0.000	0.000
105 Frontage Road, Skokie River	60.5	26.0	0.000	0.000
34 Dempster Street, North Branch Chicago River	59.5	24.8	0.000	0.000
96 Albany Avenue, North Branch Chicago River	62.6	26.1	0.000	0.000
35 Central Street, North Shore Channel	35.3	12.3	0.000	0.000
102 Oakton Street, North Shore Channel	46.1	16.3	0.000	0.000
36 Touhy Avenue, North Shore Channel	58.3	20.8	0.000	0.000
101 Foster Avenue, North Shore Channel	56.0	19.8	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	56.4	20.7	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	56.7	20.6	0.000	0.000
46 Grand Avenue, North Branch Chicago River	54.8	19.9	0.000	0.000
74 Lake Shore Drive, Chicago River	36.0	12.3	0.000	0.000
100 Wells Street, Chicago River	42.6	15.0	0.000	0.000
39 Madison Street, South Branch Chicago River	51.7	18.9	0.000	0.000
108 Loomis Street, South Branch Chicago River	52.3	19.0	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	50.6	17.8	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	52.8	19.1	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	50.9	18.4	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	56.2	20.2	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	54.4	19.6	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	54.4	19.5	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	56.3	20.4	0.000	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	34.2	11.3	0.000	0.000
50 Burnham Avenue, Wolf Lake	34.8	11.5	0.000	0.000
55 130th Street, Calumet River	41.2	14.0	0.000	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	80.8	37.1	0.000	0.000
56 Indiana Avenue, Little Calumet River	47.4	16.5	0.000	0.000
76 Halsted Street, Little Calumet River	61.1	21.2	0.000	0.000
52 Wentworth Avenue, Little Calumet River	71.7	27.4	0.000	0.000
54 Joe Orr Road, Thorn Creek	74.1	28.0	0.000	0.000
97 170th Street, Thorn Creek	75.3	29.9	0.000	0.000
57 Ashland Avenue, Little Calumet River	69.2	26.9	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	59.3	21.4	0.000	0.000
59 Cicero Avenue, Calumet-Sag Channel	60.8	22.0	0.000	0.000
43 Route 83, Calumet-Sag Channel	59.3	21.9	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	65.5	28.6	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	64.9	25.1	0.000	0.000
64 Lake Street, West Branch DuPage River	64.0	24.4	0.000	0.000
79 Higgins Road, Salt Creek	60.4	25.7	0.000	0.000
80 Arlington Heights Road, Salt Creek	59.0	22.5	0.000	0.000
18 Devon Avenue, Salt Creek	58.2	22.6	0.000	0.000
24 Wolf Road, Salt Creek	66.4	26.3	0.000	0.000
109 Brookfield Avenue, Salt Creek	63.6	25.2	0.000	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	50.2	18.1	0.000	0.000
78 Wille Road, Higgins Creek	76.9	29.0	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	66.9	28.7	0.000	0.000
13 Lake-Cook Road, Des Plaines River	59.7	26.7	0.000	0.000
17 Oakton Street, Des Plaines River	58.9	25.9	0.000	0.000
19 Belmont Avenue, Des Plaines River	61.1	26.4	0.000	0.000
20 Roosevelt Road, Des Plaines River	59.2	25.6	0.000	0.000
22 Ogden Avenue, Des Plaines River	59.3	25.1	0.000	0.000
23 Willow Springs Road, Des Plaines River	59.5	25.5	0.000	0.000
29 Stephen Street, Des Plaines River	59.1	25.1	0.000	0.000
91 Material Service Road, Des Plaines River	60.5	25.6	0.000	0.000
110 Springinsguth Road, West Branch DuPage River	73.7	27.2	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

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	0.051	0.147	0.000	0.001
103 Golf Road, West Fork North Branch Chicago River	0.042	0.122	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.032	0.074	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.028	0.115	0.000	0.000
32 Lake-Cook Road, Skokie River	0.034	0.105	0.000	0.000
105 Frontage Road, Skokie River	0.026	0.129	0.000	0.000
34 Dempster Street, North Branch Chicago River	0.030	0.111	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.033	0.120	0.000	0.000
35 Central Street, North Shore Channel	0.019	0.036	0.000	0.000
102 Oakton Street, North Shore Channel	0.021	0.083	0.000	0.000
36 Touhy Avenue, North Shore Channel	0.024	0.156	0.000	0.002
101 Foster Avenue, North Shore Channel	0.023	0.148	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	0.025	0.136	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.024	0.131	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.023	0.123	0.000	0.000
74 Lake Shore Drive, Chicago River	0.021	0.041	0.000	0.000
100 Wells Street, Chicago River	0.023	0.061	0.000	0.000
39 Madison Street, South Branch Chicago River	0.023	0.106	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.023	0.106	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.023	0.104	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.024	0.106	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.022	0.099	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.020	0.154	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.019	0.171	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.019	0.161	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.020	0.167	0.000	0.000
Calumet River System				
49 Ewing Avenue, Calumet River	0.020	0.038	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.032	0.239	0.000	0.000
55 130th Street, Calumet River	0.028	0.123	0.000	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.023	0.357	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.029	0.134	0.000	0.000
76 Halsted Street, Little Calumet River	0.021	0.176	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.030	0.175	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.026	0.263	0.000	0.000
97 170th Street, Thorn Creek	0.031	0.214	0.000	0.000
57 Ashland Avenue, Little Calumet River	0.030	0.199	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.022	0.167	0.001	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.023	0.163	0.000	0.000
43 Route 83, Calumet-Sag Channel	0.022	0.158	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.059	0.050	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.028	0.211	0.000	0.001
64 Lake Street, West Branch DuPage River	0.030	0.157	0.000	0.000
79 Higgins Road, Salt Creek	0.034	0.085	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.024	0.147	0.000	0.000
18 Devon Avenue, Salt Creek	0.024	0.143	0.000	0.000
24 Wolf Road, Salt Creek	0.029	0.150	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.029	0.156	0.000	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.038	0.067	0.000	0.000
78 Wille Road, Higgins Creek	0.027	0.201	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.037	0.083	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.028	0.121	0.000	0.000
17 Oakton Street, Des Plaines River	0.029	0.111	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.029	0.121	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.028	0.116	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.028	0.128	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.028	0.125	0.000	0.000
29 Stephen Street, Des Plaines River	0.028	0.119	0.000	0.000
91 Material Service Road, Des Plaines River	0.028	0.122	0.000	0.000
110 Springinsguth Road, West Branch DuPage River	0.040	0.084	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

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	0.057	0.007	0.000
103 Golf Road, West Fork North Branch Chicago River	0.000	0.041	0.000	0.001
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.074	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.051	0.007	0.000
32 Lake-Cook Road, Skokie River	0.000	0.077	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.042	0.006	0.000
34 Dempster Street, North Branch Chicago River	0.000	0.048	0.007	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.042	0.006	0.000
35 Central Street, North Shore Channel	0.000	0.048	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.027	0.000	0.001
36 Touhy Avenue, North Shore Channel	0.000	0.031	0.007	0.001
101 Foster Avenue, North Shore Channel	0.000	0.032	0.006	0.001
37 Wilson Avenue, North Branch Chicago River	0.000	0.047	0.006	0.001
73 Diversey Parkway, North Branch Chicago River	0.000	0.044	0.007	0.001
46 Grand Avenue, North Branch Chicago River	0.000	0.041	0.006	0.002
74 Lake Shore Drive, Chicago River	0.000	0.005	0.000	0.000
100 Wells Street, Chicago River	0.000	0.017	0.000	0.000
39 Madison Street, South Branch Chicago River	0.000	0.033	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.031	0.005	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.043	0.000	0.001
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.039	0.000	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.032	0.005	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.037	0.006	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.037	0.007	0.002
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.043	0.007	0.002
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.044	0.005	0.002
Calumet River System				
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.014	0.000	0.000
55 130th Street, Calumet River	0.000	0.014	0.000	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.107	0.000	0.001
56 Indiana Avenue, Little Calumet River	0.000	0.007	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.030	0.006	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.069	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.084	0.000	0.000
97 170th Street, Thorn Creek	0.000	0.051	0.000	0.001
57 Ashland Avenue, Little Calumet River	0.000	0.055	0.000	0.001
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.043	0.007	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.043	0.000	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.039	0.000	0.000
Des Plaines River System				
90 Route 19, Poplar Creek	0.000	0.080	0.008	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.051	0.007	0.003
64 Lake Street, West Branch DuPage River	0.000	0.048	0.009	0.004
79 Higgins Road, Salt Creek	0.000	0.052	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.073	0.006	0.001
18 Devon Avenue, Salt Creek	0.000	0.070	0.007	0.001
24 Wolf Road, Salt Creek	0.000	0.051	0.007	0.002
109 Brookfield Avenue, Salt Creek	0.000	0.049	0.006	0.002
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.063	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.051	0.006	0.002
12 Lake-Cook Road, Buffalo Creek	0.001	0.059	0.009	0.001
13 Lake-Cook Road, Des Plaines River	0.000	0.056	0.006	0.000
17 Oakton Street, Des Plaines River	0.000	0.052	0.006	0.002
19 Belmont Avenue, Des Plaines River	0.000	0.056	0.006	0.001
20 Roosevelt Road, Des Plaines River	0.000	0.052	0.006	0.001
22 Ogden Avenue, Des Plaines River	0.000	0.053	0.006	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.048	0.006	0.000
29 Stephen Street, Des Plaines River	0.000	0.058	0.006	0.000
91 Material Service Road, Des Plaines River	0.000	0.043	0.006	0.000
110 Springinsguth Road, West Branch DuPage River	0.000	0.154	0.000	0.000

TABLE AII-1 (Continued): WATERWAYS SAMPLE MEANS IN 2009

Sampling Station (No. Name)	Sol. Mn mg/L	Sol. Zn mg/L	Sol. Se mg/L
Chicago River System			
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.054	0.014	0.000
103 Golf Road, West Fork North Branch Chicago River	0.057	0.004	0.000
31 Lake-Cook Road, Middle Fork North Branch	0.058	0.003	0.000
104 Glenview Road, North Branch Chicago River	0.063	0.011	0.000
32 Lake-Cook Road, Skokie River	0.059	0.004	0.000
105 Frontage Road, Skokie River	0.032	0.014	0.000
34 Dempster Street, North Branch Chicago River	0.043	0.003	0.000
96 Albany Avenue, North Branch Chicago River	0.036	0.006	0.000
35 Central Street, North Shore Channel	0.011	0.002	0.000
102 Oakton Street, North Shore Channel	0.014	0.010	0.000
36 Touhy Avenue, North Shore Channel	0.010	0.023	0.000
101 Foster Avenue, North Shore Channel	0.019	0.022	0.000
37 Wilson Avenue, North Branch Chicago River	0.018	0.017	0.000
73 Diversey Parkway, North Branch Chicago River	0.025	0.017	0.000
46 Grand Avenue, North Branch Chicago River	0.027	0.018	0.000
74 Lake Shore Drive, Chicago River	0.011	0.002	0.000
100 Wells Street, Chicago River	0.013	0.006	0.000
39 Madison Street, South Branch Chicago River	0.021	0.015	0.000
108 Loomis Street, South Branch Chicago River	0.024	0.016	0.000
99 Archer Avenue, South Fork South Branch Chicago River	0.037	0.013	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.023	0.015	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.025	0.011	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.022	0.017	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.017	0.018	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.022	0.016	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.028	0.017	0.000
Calumet River System			
49 Ewing Avenue, Calumet River	0.021	0.002	0.000
50 Burnham Avenue, Wolf Lake	0.010	0.001	0.000
55 130th Street, Calumet River	0.014	0.000	0.000
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.081	0.026	0.000
56 Indiana Avenue, Little Calumet River	0.019	0.001	0.000
76 Halsted Street, Little Calumet River	0.025	0.016	0.000
52 Wentworth Avenue, Little Calumet River	0.084	0.007	0.000
54 Joe Orr Road, Thorn Creek	0.047	0.034	0.000
97 170th Street, Thorn Creek	0.060	0.013	0.000
57 Ashland Avenue, Little Calumet River	0.065	0.011	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.035	0.016	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.035	0.011	0.000
43 Route 83, Calumet-Sag Channel	0.034	0.012	0.000
Des Plaines River System			
90 Route 19, Poplar Creek	0.054	0.001	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.023	0.032	0.000
64 Lake Street, West Branch DuPage River	0.044	0.022	0.000
79 Higgins Road, Salt Creek	0.022	0.005	0.000
80 Arlington Heights Road, Salt Creek	0.023	0.018	0.000
18 Devon Avenue, Salt Creek	0.030	0.017	0.000
24 Wolf Road, Salt Creek	0.034	0.016	0.000
109 Brookfield Avenue, Salt Creek	0.038	0.013	0.000
21 First Avenue, Salt Creek	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.069	0.007	0.000
78 Wille Road, Higgins Creek	0.026	0.032	0.000
12 Lake-Cook Road, Buffalo Creek	0.056	0.001	0.000
13 Lake-Cook Road, Des Plaines River	0.032	0.007	0.000
17 Oakton Street, Des Plaines River	0.026	0.007	0.000
19 Belmont Avenue, Des Plaines River	0.029	0.011	0.000
20 Roosevelt Road, Des Plaines River	0.025	0.008	0.000
22 Ogden Avenue, Des Plaines River	0.020	0.008	0.000
23 Willow Springs Road, Des Plaines River	0.018	0.006	0.000
29 Stephen Street, Des Plaines River	0.016	0.007	0.000
91 Material Service Road, Des Plaines River	0.014	0.007	0.000
110 Springinguth Road, West Branch DuPage River	0.109	0.008	0.000

ND = No Data.

¹Un-ionized Ammonia.

²Geometric Mean.

TABLE AII-2: DISSOLVED OXYGEN VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	1/11	2/11	0/4	0/5	0/4	1/6	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	2/11	2/10	3/11	0/12	2/10	1/10	3/8	2/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	2/10	4/10	2/11	6/10	5/10	5/9	3/10
104 Glenview Road, North Branch Chicago River	1/12	3/12	4/11	0/12	1/12	1/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	1/10	3/10	1/12	2/11	2/10	2/9	2/10
105 Frontage Road, Skokie River	0/12	1/12	1/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	1/12	5/11	4/11	1/12	3/11	0/12	1/11	2/12
96 Albany Avenue, North Branch Chicago River	0/12	1/12	1/11	0/12	1/11	0/11	1/10	1/12
35 Central Street, North Shore Channel	1/9	2/9	0/9	1/9	2/8	1/9	1/9	1/9
102 Oakton Street, North Shore Channel	1/11	2/11	2/12	0/12	0/12	2/12	1/10	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/11	0/12	0/13	0/12	0/12	0/12
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	1/12	0/12	0/12	1/12	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	1/12	0/11	0/11	1/12	0/12	0/12	1/12
74 Lake Shore Drive, Chicago River	0/9	0/10	1/11	0/11	0/10	0/9	1/10	0/12
100 Wells Street, Chicago River	0/11	1/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	1/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	4/11	4/12	1/11	1/7	1/11	2/12	2/12	6/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	2/12	1/12	0/12	0/12	1/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	1/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1/12	3/12	1/12	1/13	1/12	1/12	3/12	2/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	1/13	0/11	0/12	1/12	1/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	1/11	1/13	0/11	0/12	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1/50	2/51	4/51	3/53	5/52	3/50	5/51	11/50
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	1/9	0/10	0/11	0/11	0/10	0/12	0/21
50 Burnham Avenue, Wolf Lake	0/10	1/12	2/11	0/11	1/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	1/9	0/10	1/11	0/11	0/11	0/10	0/21
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1/5	3/10	4/10	4/11	4/10	5/9	7/10	4/11
56 Indiana Avenue, Little Calumet River	0/8	2/9	0/8	0/11	0/9	0/9	0/11	0/21
76 Halsted Street, Little Calumet River	0/11	1/12	0/11	0/11	0/12	0/12	0/11	0/21
52 Wentworth Avenue, Little Calumet River	1/10	4/10	4/11	0/11	5/11	3/9	3/10	4/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	2/8	0/6	0/3	0/7
97 170th Street, Thorn Creek	0/9	2/10	0/11	1/11	1/11	0/11	1/10	0/12
57 Ashland Avenue, Little Calumet River	1/9	5/10	4/11	0/11	5/11	4/10	6/10	3/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/21
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/20
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/21
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/10	0/10	0/10	1/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/10	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	1/12	0/12	0/12	0/12	1/11	0/12	0/12
79 Higgins Road, Salt Creek	0/8	3/9	1/10	1/9	3/9	0/10	2/9	1/8
80 Arlington Heights Road, Salt Creek	1/12	0/12	0/12	0/12	0/12	0/11	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/10
24 Wolf Road, Salt Creek	2/12	0/12	0/11	0/12	0/12	1/10	0/12	1/12
109 Brookfield Avenue, Salt Creek	0/11	1/11	0/11	2/12	1/12	0/10	0/10	2/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/3
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	1/7	0/4	0/3	0/5	1/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	1/11	0/9	1/9	0/7	0/6	1/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	1/12	1/12	0/12	0/10	1/12	1/12
17 Oakton Street, Des Plaines River	0/11	0/11	2/11	1/12	2/12	0/10	1/10	1/11
19 Belmont Avenue, Des Plaines River	0/12	1/12	2/11	1/12	3/12	3/10	2/12	4/12
20 Roosevelt Road, Des Plaines River	0/11	1/12	2/11	1/12	2/12	3/10	1/7	3/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/10	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	1/12	0/10	0/10	2/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/11	0/10	0/11	0/12
91 Material Service Road, Des Plaines River	1/12	1/12	0/11	0/12	0/12	1/10	0/12	0/12
110 Springinguth Road, West Branch DuPage River	3/9	6/11	6/10	5/11	4/11	5/9	ND	ND

ND = No Data.

TABLE AII-3: TEMPERATURE VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/10	0/4	0/5	0/4	0/8	0/3	0/5
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	1/12	0/10	0/10	0/8	0/9
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/8	0/7
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	1/12	0/12	0/3	0/7
32 Lake-Cook Road, Skokie River	0/10	0/10	0/9	0/12	1/11	0/10	0/8	0/7
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/11	0/10
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/10
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/11
35 Central Street, North Shore Channel	0/9	0/9	0/9	1/9	0/8	0/9	0/9	0/7
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/11	0/10	0/10
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/11
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/11	0/11
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/11
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/11
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/11
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/11
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/11
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/11
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/11	0/11
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/51	0/50	0/50	0/46
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/9	0/11	0/11	0/10	0/12	0/10
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/10	0/11	0/12	0/12	1/12	0/10
55 130th Street, Calumet River	0/9	0/9	0/9	0/11	0/11	0/11	0/10	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/9	0/11	0/10	0/9	0/10	0/9
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	1/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	1/10	0/11
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	1/10	0/11
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/11
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/9
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	1/10	0/11	0/10
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/8
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/10	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	0/11	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/7
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	1/12	0/9
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	1/12	0/10
24 Wolf Road, Salt Creek	0/12	1/12	0/11	0/12	0/12	0/11	0/11	0/11
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/9	0/4
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/3
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	1/11	0/12	0/12	0/11	0/11	0/12	0/11
12 Lake-Cook Road, Buffalo Creek	0/9	0/10	0/9	0/9	0/6	0/7	0/8	0/6
13 Lake-Cook Road, Des Plaines River	0/12	0/11	0/12	0/12	0/11	0/11	0/12	0/10
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/10
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/11	0/12	0/11	1/11	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/11	0/12	0/11	0/11	0/7	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/10	0/5	0/10
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/10	0/10	0/9
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/10	0/11	0/11
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/10	0/12	0/11
110 Springinguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

ND = No Data.

TABLE AII-4: pH VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/10	0/4	0/5	0/4	0/8	0/3	0/5
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/9
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/8	0/7
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	2/12	0/12	0/3	0/7
32 Lake-Cook Road, Skokie River	0/10	0/10	0/9	0/12	2/11	0/10	0/7	0/7
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	2/12	0/12	0/11	0/10
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/10
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/11	2/11	0/11	0/10	0/11
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/8	0/8	0/9	1/9	0/6
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/11	1/12	0/11	1/10	0/10
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/11	0/12	0/12	0/12	0/11
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/11	0/13	0/12	0/11	0/11
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/11
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/11
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/11
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	1/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	1/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/11
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/11
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/11
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/11
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/11	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/10	0/13	0/11	0/12	0/12	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	0/51	0/50	1/52	1/51	0/50	0/52	0/46
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	1/10	0/12	0/10
50 Burnham Avenue, Wolf Lake	0/10	1/12	1/11	2/11	0/12	0/12	0/12	0/10
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	1/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/9
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	1/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	1/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	1/11	1/10	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	1/10	0/9	0/8	0/6	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	1/11	0/11	0/10	0/12
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	2/11	0/10	0/10	0/11
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	1/12	0/12	0/12	0/11
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	1/12	0/12	0/11	0/10
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/10
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	1/12	0/11	0/11	0/10	0/8
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	1/12	0/12	0/10	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	1/12	0/11	0/11	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/7
80 Arlington Heights Road, Salt Creek	1/12	0/12	0/12	0/12	0/12	0/12	0/12	0/9
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	1/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	2/12	0/12	0/11	0/11	0/11
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	2/12	0/12	0/11	0/9	0/4
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/3
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/11	0/12	0/12	1/11	0/11	0/12	0/11
12 Lake-Cook Road, Buffalo Creek	0/9	0/10	0/9	1/9	0/6	0/7	0/8	0/6
13 Lake-Cook Road, Des Plaines River	0/12	0/11	1/12	0/12	2/11	0/11	0/12	1/10
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	1/11	0/11	0/10	0/10
19 Belmont Avenue, Des Plaines River	0/12	0/11	0/11	0/12	1/11	0/11	0/12	0/10
20 Roosevelt Road, Des Plaines River	0/11	0/11	0/11	0/12	1/11	0/11	0/7	0/10
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	2/12	0/12	0/10	0/5	1/10
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	1/12	0/12	0/10	0/10	0/9
29 Stephen Street, Des Plaines River	1/11	0/12	0/11	1/12	0/12	0/10	0/11	0/11
91 Material Service Road, Des Plaines River	1/11	0/12	0/11	0/12	0/12	0/10	0/12	0/11
110 Springingsuth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

ND = No Data.

TABLE AII-5: CHLORIDE VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	4/11	3/11	0/4	1/5	2/4	3/8	0/3	1/6
103 Golf Road, West Fork North Branch Chicago River	3/11	2/10	2/10	2/12	5/10	0/9	1/8	1/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	1/10	0/10	1/11	0/10	0/9	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	1/12	1/11	1/12	1/12	1/11	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	1/10	0/10	0/12	2/11	0/9	0/9	0/10
105 Frontage Road, Skokie River	0/12	2/12	0/11	0/12	0/12	0/11	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	2/11	1/11	1/12	2/11	1/11	0/11	0/12
96 Albany Avenue, North Branch Chicago River	1/12	3/12	1/11	2/12	1/11	0/10	0/10	1/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/8	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/11	0/10	0/11
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	1/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/10	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	0/12
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	1/11	0/10	0/10	0/12
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	1/11	1/11	2/12	1/11	0/11	0/10	1/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	1/12	0/12	1/12	0/12	1/11	1/11	1/12
64 Lake Street, West Branch DuPage River	0/12	1/12	1/12	0/12	0/12	1/12	0/12	1/12
79 Higgins Road, Salt Creek	0/8	2/9	2/10	1/9	2/9	2/11	1/9	1/8
80 Arlington Heights Road, Salt Creek	0/12	3/12	1/12	2/12	2/12	1/12	1/12	0/10
18 Devon Avenue, Salt Creek	0/11	3/12	1/12	2/12	2/12	1/12	1/12	0/10
24 Wolf Road, Salt Creek	0/12	3/12	1/11	0/12	1/12	1/11	2/12	1/12
109 Brookfield Avenue, Salt Creek	0/11	2/11	1/11	1/12	1/12	1/11	1/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	1/3
77 Elmhurst Road, Higgins Creek	1/4	2/5	0/5	2/7	2/4	3/6	1/5	2/6
78 Wille Road, Higgins Creek	1/12	1/12	1/12	0/12	1/12	0/11	1/12	1/12
12 Lake-Cook Road, Buffalo Creek	0/9	3/11	1/9	0/9	1/7	0/7	1/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	1/12	1/12	0/11	0/10	1/11
19 Belmont Avenue, Des Plaines River	0/12	1/12	0/11	2/12	0/12	0/11	1/12	1/12
20 Roosevelt Road, Des Plaines River	0/11	3/12	0/11	2/12	1/12	0/11	0/7	2/12
22 Ogden Avenue, Des Plaines River	0/11	2/11	0/11	1/12	1/12	0/11	0/5	2/12
23 Willow Springs Road, Des Plaines River	0/11	2/11	0/11	1/12	1/12	0/11	0/10	1/10
29 Stephen Street, Des Plaines River	0/11	3/12	1/11	1/12	1/12	1/11	0/11	2/12
91 Material Service Road, Des Plaines River	0/12	2/12	1/11	1/12	1/12	1/11	0/12	1/12
110 Springinsguth Road, West Branch DuPage River	1/9	1/11	1/10	2/11	3/11	1/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-6: AMMONIUM NITROGEN VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	0/12
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	0/12
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/3
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-7: UN-IONIZED AMMONIA VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/5
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/9
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	0/7
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/7
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/7
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/10
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/10
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/11
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/6
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/10
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/11	0/12	0/12	0/12	0/11
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/11	0/13	0/12	0/11	0/11
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	1/12	0/12	0/11
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	1/12	0/12	0/12	0/12	0/11
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/11
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/11
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/11
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/11
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	1/12	0/12	0/11	1/11
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/11	0/11	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/10	0/13	0/11	0/12	0/12	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	0/51	0/50	0/52	0/51	0/49	0/50	0/46
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/10
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	0/10
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/10
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	1/9	0/11	0/10	0/9	1/10	1/9
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/8	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/7
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/11
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/11
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/9
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/10
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	0/8
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/7
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/9
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/11
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/4
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/3
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/6
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/11
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	0/6
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/9
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/11
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/11
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-8: TOTAL DISSOLVED SOLIDS VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	5/11	4/11	1/4	2/5	2/4	4/8	0/3	3/6
103 Golf Road, West Fork North Branch Chicago River	3/11	2/10	5/11	4/12	6/10	3/10	1/8	3/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	2/10	3/10	1/11	3/10	0/10	1/9	0/10
104 Glenview Road, North Branch Chicago River	1/12	3/12	1/11	1/12	1/12	1/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	1/10	3/10	0/12	5/11	0/10	1/9	0/10
105 Frontage Road, Skokie River	1/12	3/12	1/11	0/12	0/12	0/12	0/12	1/12
34 Dempster Street, North Branch Chicago River	2/12	3/11	1/11	2/12	3/11	1/12	2/11	1/12
96 Albany Avenue, North Branch Chicago River	2/12	4/12	2/11	2/12	4/11	0/11	0/10	1/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	1/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	2/12	0/12	0/13	0/12	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	1/12	0/12	2/12	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	0/12	0/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	1/12	1/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	1/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	1/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	1/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	1/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	3/51	0/51	0/53	1/52	0/52	0/52	0/50
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	3/10	1/11
54 Joe Orr Road, Thorn Creek	5/9	8/8	9/10	9/9	5/8	6/7	1/3	7/7
97 170th Street, Thorn Creek	3/9	6/11	4/11	5/11	9/11	6/11	7/10	9/12
57 Ashland Avenue, Little Calumet River	0/9	4/10	2/11	3/11	2/11	4/10	5/10	4/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	1/11	1/11	3/12	3/11	1/11	1/10	1/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	1/12	1/12	1/12	0/12	2/11	2/11	1/12
64 Lake Street, West Branch DuPage River	0/12	2/12	1/12	0/12	1/12	1/12	1/12	1/12
79 Higgins Road, Salt Creek	0/8	4/9	5/10	1/9	4/9	5/11	1/9	1/8
80 Arlington Heights Road, Salt Creek	0/12	4/12	2/12	2/12	2/12	1/12	1/12	1/10
18 Devon Avenue, Salt Creek	0/11	4/12	2/12	3/12	4/12	1/12	1/12	0/10
24 Wolf Road, Salt Creek	1/12	5/12	1/11	2/12	3/12	1/11	2/12	2/12
109 Brookfield Avenue, Salt Creek	1/11	4/11	2/11	3/12	3/12	1/11	1/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	3/3
77 Elmhurst Road, Higgins Creek	1/4	3/5	0/5	2/7	2/4	3/6	1/5	2/6
78 Wille Road, Higgins Creek	1/12	2/12	2/12	2/12	1/12	0/11	1/12	2/12
12 Lake-Cook Road, Buffalo Creek	0/9	3/11	1/9	2/9	5/7	1/7	1/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	1/12	1/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	1/11	0/11	2/12	1/12	0/11	0/10	1/11
19 Belmont Avenue, Des Plaines River	0/12	2/12	0/11	2/12	1/12	2/11	1/12	2/12
20 Roosevelt Road, Des Plaines River	0/11	3/12	0/11	2/12	1/12	1/11	0/7	2/12
22 Ogden Avenue, Des Plaines River	0/11	2/11	2/11	2/12	1/12	1/11	0/5	2/12
23 Willow Springs Road, Des Plaines River	0/11	2/11	2/11	1/12	2/12	1/11	1/10	1/10
29 Stephen Street, Des Plaines River	0/11	3/12	1/11	1/12	2/12	1/11	0/11	2/12
91 Material Service Road, Des Plaines River	0/12	3/12	1/11	1/12	2/12	1/11	0/12	1/12
110 Springinguth Road, West Branch DuPage River	1/9	5/11	3/10	3/11	6/11	5/10	ND	ND

ND = No Data.

TABLE AII-9: PHENOLS VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/8
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/11	0/12	0/12
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/50
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	0/12
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/10	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/3
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/11	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

ND = No Data.

TABLE AII-10: SULFATE VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/10	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/9	0/10	0/10	0/12	0/11	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/11	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	4/9	9/9	4/10	6/8	4/8	5/7	1/3	6/7
97 170th Street, Thorn Creek	1/9	3/11	3/11	3/10	4/11	4/11	6/10	6/12
57 Ashland Avenue, Little Calumet River	0/9	0/10	1/11	0/11	1/11	0/10	1/10	0/12
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/11	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/11	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/3
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/8	0/11	0/9	0/9	0/7	0/7	0/8	0/7
13 Lake-Cook Road, Des Plaines River	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinsguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-11: FATS, OILS, AND GREASES VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	ND
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/10	0/11	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/10	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/11	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/11	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	1/12	0/11	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	1/12	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	0/50	0/50	0/51	0/53	0/52	0/52	2/49	0/50
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	ND
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	1/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	ND
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	1/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	ND
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	ND
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	ND
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	ND
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-12: TOTAL CYANIDE VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	ND
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	ND
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/50
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	ND
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	ND
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	ND
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/10	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	ND
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	ND
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	ND
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	ND
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	ND
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-13: WEAK ACID DISSOCIABLE CYANIDE VIOLATION HISTORY
2002 THROUGH 2009**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/10	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/11
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/8	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	0/12
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	0/12
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/3
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/11
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/11
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/11
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/11
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinsguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-14: FLUORIDE VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/50
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	2/10	6/10	8/11	9/11	7/11	4/9	6/10	10/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	1/12
57 Ashland Avenue, Little Calumet River	1/9	1/10	0/11	2/11	3/11	2/10	2/10	8/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/3
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	1/12	0/12	0/12	0/11	1/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

ND = No Data.

**TABLE AII-15: FECAL COLIFORM VIOLATION HISTORY
2002 THROUGH 2009**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	11/11	10/11	3/4	4/5	3/4	8/8	3/3	5/6
103 Golf Road, West Fork North Branch Chicago River	8/11	9/10	8/11	8/12	8/10	7/10	8/8	9/11
31 Lake-Cook Road, Middle Fork North Branch	5/10	9/10	7/10	10/11	5/10	7/10	6/9	9/10
104 Glenview Road, North Branch Chicago River	6/12	7/12	7/11	7/12	9/12	11/12	2/3	7/9
32 Lake-Cook Road, Skokie River	6/10	6/10	10/10	5/12	7/11	9/10	7/9	6/10
105 Frontage Road, Skokie River	3/12	1/12	1/11	1/12	2/12	1/12	5/12	5/12
34 Dempster Street, North Branch Chicago River	6/12	9/11	7/11	11/12	9/11	11/12	10/11	11/12
96 Albany Avenue, North Branch Chicago River	7/12	8/12	6/11	10/12	9/11	9/11	10/10	11/12
35 Central Street, North Shore Channel	1/9	2/9	1/9	2/9	1/8	5/9	3/9	6/9
102 Oakton Street, North Shore Channel	4/11	8/11	8/12	9/12	7/12	9/12	6/10	8/11
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	3/9	2/10	2/11	0/11	2/10	1/9	2/10	0/12
100 Wells Street, Chicago River	2/11	7/12	2/11	3/12	3/12	2/12	4/12	2/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	2/11	0/11	2/12	1/12	0/12	0/12
55 130th Street, Calumet River	0/9	1/9	1/10	1/11	0/11	0/11	2/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	10/10	8/10	10/11	10/11	10/11	8/9	9/10	10/11
54 Joe Orr Road, Thorn Creek	9/9	8/9	8/10	9/9	8/8	5/7	2/3	4/7
97 170th Street, Thorn Creek	6/9	10/11	7/11	8/11	11/11	10/11	7/10	6/12
57 Ashland Avenue, Little Calumet River	4/9	9/10	10/11	6/11	10/11	9/10	10/10	8/12
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	2/11	2/11	4/11	5/12	5/11	1/11	4/10	2/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	1/1	ND
89 Walnut Lane, West Branch DuPage River	7/12	8/12	8/12	7/12	10/12	7/11	9/11	8/12
64 Lake Street, West Branch DuPage River	7/12	8/12	9/12	10/12	10/12	7/12	9/12	9/12
79 Higgins Road, Salt Creek	1/8	1/9	6/10	3/9	3/9	1/11	4/9	2/8
80 Arlington Heights Road, Salt Creek	3/12	5/12	5/12	6/12	6/12	6/12	7/12	5/10
18 Devon Avenue, Salt Creek	5/11	7/12	7/12	10/12	9/12	9/12	12/12	8/10
24 Wolf Road, Salt Creek	7/12	4/12	6/11	9/12	9/12	5/11	9/12	6/12
109 Brookfield Avenue, Salt Creek	7/11	6/11	8/11	10/12	10/12	9/11	10/10	4/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	3/3
77 Elmhurst Road, Higgins Creek	3/4	3/5	5/5	7/7	3/4	4/6	5/5	4/6
78 Wille Road, Higgins Creek	7/12	6/12	9/12	7/12	5/12	5/11	8/12	7/12
12 Lake-Cook Road, Buffalo Creek	2/9	3/11	4/9	3/9	3/7	2/7	5/8	4/7
13 Lake-Cook Road, Des Plaines River	2/12	5/12	6/12	4/12	6/12	2/11	6/12	2/12
17 Oakton Street, Des Plaines River	2/11	6/11	4/11	7/12	7/12	5/11	5/10	4/11
19 Belmont Avenue, Des Plaines River	4/12	5/12	5/11	8/12	7/11	5/11	8/12	8/12
20 Roosevelt Road, Des Plaines River	6/11	7/12	7/11	10/12	8/12	6/11	4/7	7/12
22 Ogden Avenue, Des Plaines River	3/11	5/11	4/11	11/12	10/12	8/11	4/5	8/12
23 Willow Springs Road, Des Plaines River	2/11	2/11	5/11	8/12	6/12	4/11	8/10	3/10
29 Stephen Street, Des Plaines River	1/11	3/12	3/11	6/12	5/12	3/11	7/11	6/12
91 Material Service Road, Des Plaines River	1/12	2/12	4/11	6/12	5/12	2/11	9/12	2/12
110 Springinsguth Road, West Branch DuPage River	8/9	9/11	9/10	11/11	9/11	8/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-16: GROSS BETA RADIOACTIVITY VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/10	0/9	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/9	0/11
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/9	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/6	0/9	0/10	0/11	0/11	0/10	0/10	0/11
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/10	0/11
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/8	0/11
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/8	0/10
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/1	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/7	0/11
57 Ashland Avenue, Little Calumet River	0/8	0/10	0/11	0/11	0/11	0/10	0/8	0/11
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/3
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/11	0/12	0/12	0/12	0/12	0/11	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/11	0/12	0/11	0/12	0/12
110 Springinsguth Road, West Branch DuPage River	0/8	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-17: BENZENE VIOLATION HISTORY
2002 THROUGH 2009 (HUMAN HEALTH STANDARD)¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/6	0/5	0/2	0/2	0/8	0/7	0/4	NA
103 Golf Road, West Fork North Branch Chicago River	0/6	0/4	0/5	0/4	0/4	0/3	0/3	NA
31 Lake-Cook Road, Middle Fork North Branch	0/5	0/4	0/4	0/4	0/5	0/3	0/3	NA
104 Glenview Road, North Branch Chicago River	0/6	0/6	0/5	0/4	0/5	0/4	0/1	NA
32 Lake-Cook Road, Skokie River	0/5	0/4	0/4	0/4	0/5	0/3	0/3	NA
105 Frontage Road, Skokie River	0/6	0/6	0/5	0/4	0/5	0/4	0/4	NA
34 Dempster Street, North Branch Chicago River	0/6	0/5	0/5	0/3	0/5	0/4	0/4	NA
96 Albany Avenue, North Branch Chicago River	0/6	0/6	0/5	0/4	0/5	0/8	0/4	NA
35 Central Street, North Shore Channel	0/4	0/4	0/4	0/3	0/4	0/3	0/3	NA
102 Oakton Street, North Shore Channel	0/6	0/5	0/6	0/4	0/5	0/4	0/3	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	0/4	0/5	0/5	0/3	0/5	0/3	0/3	NA
100 Wells Street, Chicago River	0/5	0/6	0/5	0/3	0/6	0/4	0/4	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	0/4	0/5	0/6	0/4	0/5	0/4	0/5	NA
50 Burnham Avenue, Wolf Lake	0/5	0/6	0/6	0/4	0/6	0/4	0/4	NA
55 130th Street, Calumet River	0/5	0/4	0/6	0/4	0/5	0/4	0/4	NA
51 IHB Railroad 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	0/5	0/6	0/4	0/5	0/2	0/3	NA
54 Joe Orr Road, Thorn Creek	0/4	0/4	0/5	0/3	0/4	0/3	NA	NA
97 170th Street, Thorn Creek	0/5	0/6	0/6	0/4	0/6	0/3	0/3	NA
57 Ashland Avenue, Little Calumet River	0/5	0/5	0/6	0/4	0/5	0/2	0/4	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 T9, Poplar Creek	0/5	0/5	0/6	0/4	0/5	0/4	0/3	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	0/1	NA
89 Walnut Lane, West Branch DuPage River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	NA
64 Lake Street, West Branch DuPage River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	NA
79 Higgins Road, Salt Creek	0/4	0/4	0/5	0/3	0/4	0/4	0/3	NA
80 Arlington Heights Road, Salt Creek	0/6	0/6	0/5	0/4	0/6	0/4	0/4	NA
18 Devon Avenue, Salt Creek	0/5	0/6	0/6	0/4	0/6	0/4	0/4	NA
24 Wolf Road, Salt Creek	0/6	0/6	0/5	0/4	0/6	0/4	0/4	NA
109 Brookfield Avenue, Salt Creek	0/5	0/5	0/5	0/4	NA	NA	NA	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	0/2	0/2	0/4	0/1	0/3	0/3	0/3	NA
78 Wille Road, Higgins Creek	0/6	0/6	0/6	0/4	0/5	0/3	0/4	NA
12 Lake-Cook Road, Buffalo Creek	0/4	0/6	0/5	0/2	0/3	0/3	0/2	NA
13 Lake-Cook Road, Des Plaines River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	NA
17 Oakton Street, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/3	NA
19 Belmont Avenue, Des Plaines River	0/6	0/6	0/5	0/4	0/6	0/4	0/4	NA
20 Roosevelt Road, Des Plaines River	0/5	0/6	0/5	0/4	0/6	0/4	0/2	NA
22 Ogden Avenue, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/1	NA
23 Willow Springs Road, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/3	NA
29 Stephen Street, Des Plaines River	0/5	0/6	0/5	0/4	0/6	0/4	0/3	NA
91 Material Service Road, Des Plaines River	0/6	0/6	0/5	0/4	0/6	0/4	0/4	NA
110 Springingsuth Road, West Branch DuPage River	0/5	0/5	0/4	0/4	0/5	0/4	NA	NA

¹Human Health Standard in General Use Waters became effective in December 2002.
NA = Not Applicable.

TABLE AII-18: BENZENE VIOLATION HISTORY
2002 THROUGH 2009¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	0/6	0/5	0/2	0/2	0/8	0/7	0/4	ND
103 Golf Road, West Fork North Branch Chicago River	0/6	0/4	0/5	0/4	0/4	0/3	0/3	ND
31 Lake-Cook Road, Middle Fork North Branch	0/5	0/4	0/4	0/4	0/5	0/3	0/3	ND
104 Glenview Road, North Branch Chicago River	0/6	0/6	0/5	0/4	0/5	0/4	0/1	ND
32 Lake-Cook Road, Skokie River	0/5	0/4	0/4	0/4	0/5	0/3	0/3	ND
105 Frontage Road, Skokie River	0/6	0/6	0/5	0/4	0/5	0/4	0/4	ND
34 Dempster Street, North Branch Chicago River	0/6	0/5	0/5	0/3	0/5	0/4	0/4	ND
96 Albany Avenue, North Branch Chicago River	0/6	0/6	0/5	0/4	0/5	0/8	0/4	ND
35 Central Street, North Shore Channel	0/4	0/4	0/4	0/3	0/4	0/3	0/3	ND
102 Oakton Street, North Shore Channel	0/6	0/5	0/6	0/4	0/5	0/4	0/3	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/4	0/5	0/5	0/3	0/5	0/3	0/3	ND
100 Wells Street, Chicago River	0/5	0/6	0/5	0/3	0/6	0/4	0/4	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/4	0/5	0/6	0/4	0/5	0/4	0/5	ND
50 Burnham Avenue, Wolf Lake	0/5	0/6	0/6	0/4	0/6	0/4	0/4	ND
55 130th Street, Calumet River	0/5	0/4	0/6	0/4	0/5	0/4	0/4	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/5	0/5	0/6	0/4	0/5	0/2	0/3	ND
54 Joe Orr Road, Thorn Creek	0/4	0/4	0/5	0/3	0/4	0/3	NA	ND
97 170th Street, Thorn Creek	0/5	0/6	0/6	0/4	0/6	0/3	0/3	ND
57 Ashland Avenue, Little Calumet River	0/5	0/5	0/6	0/4	0/5	0/2	0/4	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/5	0/6	0/4	0/5	0/4	0/3	ND
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
64 Lake Street, West Branch DuPage River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
79 Higgins Road, Salt Creek	0/4	0/4	0/5	0/3	0/4	0/4	0/3	ND
80 Arlington Heights Road, Salt Creek	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
18 Devon Avenue, Salt Creek	0/5	0/6	0/6	0/4	0/6	0/4	0/4	ND
24 Wolf Road, Salt Creek	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
109 Brookfield Avenue, Salt Creek	0/5	0/5	0/5	0/4	NA	NA	NA	ND
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	ND
77 Elmhurst Road, Higgins Creek	0/2	0/2	0/4	0/1	0/3	0/3	0/3	ND
78 Wille Road, Higgins Creek	0/6	0/6	0/6	0/4	0/5	0/3	0/4	ND
12 Lake-Cook Road, Buffalo Creek	0/4	0/6	0/5	0/2	0/3	0/3	0/2	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
17 Oakton Street, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/3	ND
19 Belmont Avenue, Des Plaines River	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
20 Roosevelt Road, Des Plaines River	0/5	0/6	0/5	0/4	0/6	0/4	0/2	ND
22 Ogden Avenue, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/1	ND
23 Willow Springs Road, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/3	ND
29 Stephen Street, Des Plaines River	0/5	0/6	0/5	0/4	0/6	0/4	0/3	ND
91 Material Service Road, Des Plaines River	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
110 Springinsguth Road, West Branch DuPage River	0/5	0/5	0/4	0/4	0/5	0/4	NA	ND

¹Based on General Use Water quality standards.
NA = Not Applicable.
ND = No Data.

TABLE AII-19: ETHYLBENZENE VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/6	0/5	0/2	0/2	0/8	0/7	0/4	ND
103 Golf Road, West Fork North Branch Chicago River	0/6	0/4	0/5	0/4	0/4	0/3	0/3	ND
31 Lake-Cook Road, Middle Fork North Branch	0/5	0/4	0/4	0/4	0/5	0/3	0/3	ND
104 Glenview Road, North Branch Chicago River	0/6	0/6	0/5	0/4	0/5	0/4	0/1	ND
32 Lake-Cook Road, Skokie River	0/5	0/4	0/4	0/4	0/5	0/3	0/3	ND
105 Frontage Road, Skokie River	0/6	0/6	0/5	0/4	0/5	0/4	0/4	ND
34 Dempster Street, North Branch Chicago River	0/6	0/5	0/5	0/3	0/5	0/4	0/4	ND
96 Albany Avenue, North Branch Chicago River	0/6	0/6	0/5	0/4	0/5	0/8	0/4	ND
35 Central Street, North Shore Channel	0/4	0/4	0/4	0/3	0/4	0/3	0/3	ND
102 Oakton Street, North Shore Channel	0/6	0/5	0/6	0/4	0/5	0/4	0/3	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/4	0/5	0/5	0/3	0/5	0/3	0/3	ND
100 Wells Street, Chicago River	0/5	0/6	0/5	0/3	0/6	0/4	0/4	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/4	0/5	0/6	0/4	0/5	0/4	0/5	ND
50 Burnham Avenue, Wolf Lake	0/5	0/6	0/6	0/4	0/6	0/4	0/4	ND
55 130th Street, Calumet River	0/5	0/4	0/6	0/4	0/5	0/4	0/4	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/5	0/5	0/6	0/4	0/5	0/2	0/3	ND
54 Joe Orr Road, Thorn Creek	0/4	0/4	0/5	0/3	0/4	0/3	ND	ND
97 170th Street, Thorn Creek	0/5	0/6	0/6	0/4	0/6	0/3	0/3	ND
57 Ashland Avenue, Little Calumet River	0/5	0/5	0/6	0/4	0/5	0/2	0/4	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/5	0/6	0/4	0/5	0/4	0/3	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
64 Lake Street, West Branch DuPage River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
79 Higgins Road, Salt Creek	0/4	0/4	0/5	0/3	0/4	0/4	0/3	ND
80 Arlington Heights Road, Salt Creek	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
18 Devon Avenue, Salt Creek	0/5	0/6	0/6	0/4	0/6	0/4	0/4	ND
24 Wolf Road, Salt Creek	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
109 Brookfield Avenue, Salt Creek	0/5	0/5	0/5	0/4	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/2	0/2	0/4	0/1	0/3	0/3	0/3	ND
78 Wille Road, Higgins Creek	0/6	0/6	0/6	0/4	0/5	0/3	0/4	ND
12 Lake-Cook Road, Buffalo Creek	0/4	0/6	0/5	0/2	0/3	0/3	0/2	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
17 Oakton Street, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/3	ND
19 Belmont Avenue, Des Plaines River	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
20 Roosevelt Road, Des Plaines River	0/5	0/6	0/5	0/4	0/6	0/4	0/2	ND
22 Ogden Avenue, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/1	ND
23 Willow Springs Road, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/3	ND
29 Stephen Street, Des Plaines River	0/5	0/6	0/5	0/4	0/6	0/4	0/3	ND
91 Material Service Road, Des Plaines River	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
110 Springinsguth Road, West Branch DuPage River	0/5	0/5	0/4	0/4	0/5	0/4	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-20: TOLUENE VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/6	0/5	0/2	0/2	0/8	0/7	0/4	ND
103 Golf Road, West Fork North Branch Chicago River	0/6	0/4	0/5	0/4	0/4	0/3	0/3	ND
31 Lake-Cook Road, Middle Fork North Branch	0/5	0/4	0/4	0/4	0/5	0/3	0/3	ND
104 Glenview Road, North Branch Chicago River	0/6	0/6	0/5	0/4	0/5	0/4	0/1	ND
32 Lake-Cook Road, Skokie River	0/5	0/4	0/4	0/4	0/5	0/3	0/3	ND
105 Frontage Road, Skokie River	0/6	0/6	0/5	0/4	0/5	0/4	0/4	ND
34 Dempster Street, North Branch Chicago River	0/6	0/5	0/5	0/3	0/5	0/4	0/4	ND
96 Albany Avenue, North Branch Chicago River	0/6	0/6	0/5	0/4	0/5	0/8	0/4	ND
35 Central Street, North Shore Channel	0/4	0/4	0/4	0/3	0/4	0/3	0/3	ND
102 Oakton Street, North Shore Channel	0/6	0/5	0/6	0/4	0/5	0/4	0/3	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/4	0/5	0/5	0/3	0/5	0/3	0/3	ND
100 Wells Street, Chicago River	0/5	0/6	0/5	0/3	0/6	0/4	0/4	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/4	0/5	0/6	0/4	0/5	0/4	0/5	ND
50 Burnham Avenue, Wolf Lake	0/5	0/6	0/6	0/4	0/6	0/4	0/4	ND
55 130th Street, Calumet River	0/5	0/4	0/6	0/4	0/5	0/4	0/4	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/5	0/5	0/6	0/4	0/5	0/2	0/3	ND
54 Joe Orr Road, Thorn Creek	0/4	0/4	0/5	0/3	0/4	0/3	ND	ND
97 170th Street, Thorn Creek	0/5	0/6	0/6	0/4	0/6	0/3	0/3	ND
57 Ashland Avenue, Little Calumet River	0/5	0/5	0/6	0/4	0/5	0/2	0/4	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/5	0/6	0/4	0/5	0/4	0/3	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
64 Lake Street, West Branch DuPage River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
79 Higgins Road, Salt Creek	0/4	0/4	0/5	0/3	0/4	0/4	0/3	ND
80 Arlington Heights Road, Salt Creek	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
18 Devon Avenue, Salt Creek	0/5	0/6	0/6	0/4	0/6	0/4	0/4	ND
24 Wolf Road, Salt Creek	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
109 Brookfield Avenue, Salt Creek	0/5	0/5	0/5	0/4	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/2	0/2	0/4	0/1	0/3	0/3	0/3	ND
78 Wille Road, Higgins Creek	0/6	0/6	0/6	0/4	0/5	0/3	0/4	ND
12 Lake-Cook Road, Buffalo Creek	0/4	0/6	0/5	0/2	0/3	0/3	0/2	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
17 Oakton Street, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/3	ND
19 Belmont Avenue, Des Plaines River	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
20 Roosevelt Road, Des Plaines River	0/5	0/6	0/5	0/4	0/6	0/4	0/2	ND
22 Ogden Avenue, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/1	ND
23 Willow Springs Road, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/3	ND
29 Stephen Street, Des Plaines River	0/5	0/6	0/5	0/4	0/6	0/4	0/3	ND
91 Material Service Road, Des Plaines River	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
110 Springinsguth Road, West Branch DuPage River	0/5	0/5	0/4	0/4	0/5	0/4	ND	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-21: XYLENE VIOLATION HISTORY
2002 THROUGH 2009**

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/6	0/5	0/2	0/2	0/8	0/7	0/4	ND
103 Golf Road, West Fork North Branch Chicago River	0/6	0/4	0/5	0/4	0/4	0/3	0/3	ND
31 Lake-Cook Road, Middle Fork North Branch	0/5	0/4	0/4	0/4	0/5	0/3	0/3	ND
104 Glenview Road, North Branch Chicago River	0/6	0/6	0/5	0/4	0/5	0/4	0/1	ND
32 Lake-Cook Road, Skokie River	0/5	0/4	0/4	0/4	0/5	0/3	0/3	ND
105 Frontage Road, Skokie River	0/6	0/6	0/5	0/4	0/5	0/4	0/4	ND
34 Dempster Street, North Branch Chicago River	0/6	0/5	0/5	0/3	0/5	0/4	0/4	ND
96 Albany Avenue, North Branch Chicago River	0/6	0/6	0/5	0/4	0/5	0/8	0/4	ND
35 Central Street, North Shore Channel	0/4	0/4	0/4	0/3	0/4	0/3	0/3	ND
102 Oakton Street, North Shore Channel	0/6	0/5	0/6	0/4	0/5	0/4	0/3	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/4	0/5	0/5	0/3	0/5	0/3	0/3	ND
100 Wells Street, Chicago River	0/5	0/6	0/5	0/3	0/6	0/4	0/4	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/4	0/5	0/6	0/4	0/5	0/4	0/5	ND
50 Burnham Avenue, Wolf Lake	0/5	0/6	0/6	0/4	0/6	0/4	0/4	ND
55 130th Street, Calumet River	0/5	0/4	0/6	0/4	0/5	0/4	0/4	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/5	0/5	0/6	0/4	0/5	0/2	0/3	ND
54 Joe Orr Road, Thorn Creek	0/4	0/4	0/5	0/3	0/4	0/3	ND	ND
97 170th Street, Thorn Creek	0/5	0/6	0/6	0/4	0/6	0/3	0/3	ND
57 Ashland Avenue, Little Calumet River	0/5	0/5	0/6	0/4	0/5	0/2	0/4	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/5	0/5	0/6	0/4	0/5	0/4	0/3	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
64 Lake Street, West Branch DuPage River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
79 Higgins Road, Salt Creek	0/4	0/4	0/5	0/3	0/4	0/4	0/3	ND
80 Arlington Heights Road, Salt Creek	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
18 Devon Avenue, Salt Creek	0/5	0/6	0/6	0/4	0/6	0/4	0/4	ND
24 Wolf Road, Salt Creek	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
109 Brookfield Avenue, Salt Creek	0/5	0/5	0/5	0/4	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/2	0/2	0/4	0/1	0/3	0/3	0/3	ND
78 Wille Road, Higgins Creek	0/6	0/6	0/6	0/4	0/5	0/3	0/4	ND
12 Lake-Cook Road, Buffalo Creek	0/4	0/6	0/5	0/2	0/3	0/3	0/2	ND
13 Lake-Cook Road, Des Plaines River	0/6	0/6	0/6	0/4	0/6	0/4	0/4	ND
17 Oakton Street, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/3	ND
19 Belmont Avenue, Des Plaines River	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
20 Roosevelt Road, Des Plaines River	0/5	0/6	0/5	0/4	0/6	0/4	0/2	ND
22 Ogden Avenue, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/1	ND
23 Willow Springs Road, Des Plaines River	0/5	0/5	0/5	0/4	0/6	0/4	0/3	ND
29 Stephen Street, Des Plaines River	0/5	0/6	0/5	0/4	0/6	0/4	0/3	ND
91 Material Service Road, Des Plaines River	0/6	0/6	0/5	0/4	0/6	0/4	0/4	ND
110 Springinsguth Road, West Branch DuPage River	0/5	0/5	0/4	0/4	0/5	0/4	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-22: TOTAL SILVER VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	1/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	2/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	1/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	1/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	1/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	1/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/11
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	3/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/11	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	2/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	1/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	3/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	1/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/11	2/11
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	1/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	1/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	1/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/4
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/11	0/12	1/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	1/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	2/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	1/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	1/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	1/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

ND = No Data.

TABLE AII-23: TOTAL ARSENIC VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/6
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/11
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/9
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/12
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/7
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/11
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	0/9
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/8
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/12
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/6
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/4
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/6
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	0/7
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/11
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-24: TOTAL BARIUM VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	0/11
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/4
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

ND = No Data.

TABLE AII-25: TOTAL BORON VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	0/11
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	0/12
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/11	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/4
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/7	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/9	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/10	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinsguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-26: TOTAL CADMIUM VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/6
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/11
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/9
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/12
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/7
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/11
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	0/9
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/8
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/12
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/6
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/4
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/6
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	0/7
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/11
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-27: TOTAL COPPER VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/6
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/11
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/9
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/12
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	4/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	2/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	1/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	2/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	1/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	1/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	1/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/7
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/11
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	0/9
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/8
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/12
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	1/6
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/4
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	2/6
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	0/7
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/11
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	1/12
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	1/12
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	1/12
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-28: TOTAL CHROMIUM VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/6
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/11
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/9
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/12
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/11
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/12
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/12
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	0/12
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/7
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/11
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	0/12
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	0/12
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	0/9
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/8
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/12
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/6
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/4
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/6
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	0/7
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/11
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-29: TOTAL HEXAVALENT CHROMIUM VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	ND
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	ND
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	ND
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	ND
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	ND
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	ND
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	ND
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	ND
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	ND
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	ND
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	ND
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	ND
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	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	0/13	0/12	0/12	0/12	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/11	0/12	0/13	0/12	0/12	0/12	ND
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/50	0/53	0/52	0/52	0/52	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	ND
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	ND
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	ND
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	ND
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/8	0/11	0/9	0/9	0/11	ND
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	ND
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	ND
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	ND
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	ND
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	ND
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	1/12	0/12	0/11	0/10	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/11	0/12	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	ND
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	1/12	0/11	0/12	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	1/12	0/11	0/7	ND
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	ND
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	1/12	0/11	0/10	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	ND
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
110 Springinguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

ND = No Data.

TABLE AII-30: TOTAL IRON VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	2/6
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	5/11
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	3/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	1/9
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	1/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/12
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	4/12
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	5/12
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/12	0/12	1/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	1/11	0/13	0/11	0/12	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	2/51	2/51	0/51	0/53	0/52	0/52	0/52	1/51
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	1/10	2/10	0/11	2/10	1/9	3/10	1/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	1/12
76 Halsted Street, Little Calumet River	0/11	1/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	10/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/7
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	3/11
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	4/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	1/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	1/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	1/10	0/10	0/11	0/11	0/11	0/10	1/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	3/9
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	1/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	2/12
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	6/8
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	2/12
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/6
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/4
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	3/6
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	1/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	4/7
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	5/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	2/11
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	2/12
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	3/12
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	3/12
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	2/12
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	4/12
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-31: TOTAL LEAD VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/6
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/11
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/9
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/12
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
37 Wilson Avenue, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	1/12	0/12
73 Diversey Parkway, North Branch Chicago River	0/12	0/12	0/12	0/12	0/12	0/12	1/12	0/12
46 Grand Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	1/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	1/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	1/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/7
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/11
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	0/9
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/8
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/12
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/6
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/4
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/6
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	0/7
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/11
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-32: TOTAL NICKEL VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/6
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/11
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/9
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/12
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/7
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/11
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	0/9
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/8
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/12
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/6
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/4
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/6
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	0/7
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/11
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-33: TOTAL MANGANESE VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/8	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/11	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	1/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	0/11
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/4
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	1/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	1/11	0/10	ND	ND

ND = No Data.

TABLE AII-34: TOTAL MERCURY VIOLATION HISTORY
2002 THROUGH 2009 (HUMAN HEALTH STANDARD)¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	1/4	0/5	0/4	4/8	0/3	NA
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	3/12	5/10	4/10	2/8	NA
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	2/11	2/10	3/10	2/9	NA
104 Glenview Road, North Branch Chicago River	0/12	0/12	1/11	4/12	6/12	5/12	1/3	NA
32 Lake-Cook Road, Skokie River	0/10	0/10	1/10	4/12	3/11	5/10	2/9	NA
105 Frontage Road, Skokie River	0/12	0/12	1/11	2/12	5/12	5/12	4/12	NA
34 Dempster Street, North Branch Chicago River	0/12	0/11	2/11	2/12	4/11	6/12	2/11	NA
96 Albany Avenue, North Branch Chicago River	0/12	0/12	3/11	1/12	4/11	2/11	2/10	NA
35 Central Street, North Shore Channel	0/9	0/9	0/9	1/9	1/8	0/9	1/9	NA
102 Oakton Street, North Shore Channel	0/11	0/11	2/12	2/12	3/12	6/12	0/10	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	0/9	0/10	2/11	1/11	0/10	4/9	3/10	NA
100 Wells Street, Chicago River	0/11	0/12	1/11	3/12	3/12	3/12	3/12	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	0/7	0/9	0/10	1/11	0/11	2/10	2/12	NA
50 Burnham Avenue, Wolf Lake	0/10	0/12	2/11	2/11	1/12	3/12	5/12	NA
55 130th Street, Calumet River	0/9	0/9	0/10	2/11	3/11	2/11	2/10	NA
51 IHB Railroad 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	0/10	0/10	0/11	2/11	5/11	2/9	3/10	NA
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	2/9	2/8	0/7	1/3	NA
97 170th Street, Thorn Creek	0/9	0/11	1/11	2/11	5/11	3/11	3/10	NA
57 Ashland Avenue, Little Calumet River	0/9	0/10	1/11	2/11	4/11	3/10	4/10	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 T9, Poplar Creek	0/11	0/11	2/11	1/12	3/11	4/11	2/10	NA
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	0/1	NA
89 Walnut Lane, West Branch DuPage River	0/12	0/12	1/12	1/12	2/12	4/11	1/11	NA
64 Lake Street, West Branch DuPage River	0/12	0/12	3/12	2/12	2/12	3/12	4/12	NA
79 Higgins Road, Salt Creek	0/8	0/9	2/10	0/9	1/9	1/11	4/9	NA
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	2/12	2/12	2/12	3/12	NA
18 Devon Avenue, Salt Creek	0/11	0/12	1/12	3/12	2/12	4/12	2/12	NA
24 Wolf Road, Salt Creek	0/12	0/12	2/11	2/12	2/12	2/11	3/12	NA
109 Brookfield Avenue, Salt Creek	0/11	0/11	1/11	2/12	0/11	7/11	2/10	NA
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	NA
77 Elmhurst Road, Higgins Creek	0/4	0/5	1/5	0/7	0/4	2/6	2/5	NA
78 Wille Road, Higgins Creek	0/12	0/12	1/12	2/12	2/12	3/11	3/12	NA
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	1/9	1/9	1/7	2/7	3/8	NA
13 Lake-Cook Road, Des Plaines River	0/12	0/12	1/12	3/12	1/12	3/11	3/12	NA
17 Oakton Street, Des Plaines River	0/11	0/11	2/11	2/12	2/12	2/11	4/10	NA
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	2/12	0/12	4/11	3/12	NA
20 Roosevelt Road, Des Plaines River	0/11	0/12	1/11	2/12	2/12	3/11	3/7	NA
22 Ogden Avenue, Des Plaines River	0/11	0/11	1/11	3/12	2/12	2/11	1/5	NA
23 Willow Springs Road, Des Plaines River	0/11	0/11	1/11	2/12	2/12	1/11	3/10	NA
29 Stephen Street, Des Plaines River	0/11	0/12	2/11	2/12	2/12	2/11	2/11	NA
91 Material Service Road, Des Plaines River	0/12	0/12	1/11	2/12	2/12	2/11	2/12	NA
110 Springingsuth Road, West Branch DuPage River	0/9	0/11	1/10	1/11	3/11	3/10	NA	NA

¹Human Health Standard in General Use Waters became effective in December 2002.
NA = Not Applicable.

TABLE AII-35: TOTAL MERCURY VIOLATION HISTORY
2002 THROUGH 2009¹

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/6
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/11
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/9
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/12
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0/51	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	1/10	0/9	0/9	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/11
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/7
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/11
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	0/9
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/8
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/12
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/6
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/4
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/6
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	0/7
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/11
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
110 Springingsuth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	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
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
Chicago River System								
30 Lake-Cook Road, West Fork North Branch	NA	NA	NA	NA	NA	NA	NA	ND
106 Dundee Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/6
103 Golf Road, West Fork North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/11
31 Lake-Cook Road, Middle Fork North Branch	NA	NA	NA	NA	NA	NA	NA	0/10
104 Glenview Road, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/9
32 Lake-Cook Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/10
105 Frontage Road, Skokie River	NA	NA	NA	NA	NA	NA	NA	0/12
34 Dempster Street, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
96 Albany Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
35 Central Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/9
102 Oakton Street, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
100 Wells Street, Chicago River	NA	NA	NA	NA	NA	NA	NA	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
50 Burnham Avenue, Wolf Lake	NA	NA	NA	NA	NA	NA	NA	0/12
55 130th Street, Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/11
54 Joe Orr Road, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/7
97 170th Street, Thorn Creek	NA	NA	NA	NA	NA	NA	NA	0/11
57 Ashland Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	NA	NA	NA	NA	NA	NA	NA	0/9
63 Longmeadow Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND
89 Walnut Lane, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
64 Lake Street, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	0/12
79 Higgins Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/8
80 Arlington Heights Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
18 Devon Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/10
24 Wolf Road, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/12
109 Brookfield Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/6
21 First Avenue, Salt Creek	NA	NA	NA	NA	NA	NA	NA	0/4
77 Elmhurst Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/6
78 Wille Road, Higgins Creek	NA	NA	NA	NA	NA	NA	NA	0/12
12 Lake-Cook Road, Buffalo Creek	NA	NA	NA	NA	NA	NA	NA	0/7
13 Lake-Cook Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
17 Oakton Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/11
19 Belmont Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
20 Roosevelt Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
22 Ogden Avenue, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
23 Willow Springs Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/10
29 Stephen Street, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
91 Material Service Road, Des Plaines River	NA	NA	NA	NA	NA	NA	NA	0/12
110 Springinsguth Road, West Branch DuPage River	NA	NA	NA	NA	NA	NA	NA	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-37: TOTAL SELENIUM VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	0/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	0/11
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	0/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/4
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

ND = No Data.

TABLE AII-38: SOLUBLE ARSENIC VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	ND
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	ND
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	ND
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	ND
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	ND
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	ND
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	ND
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	ND
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/10	0/11	0/12	0/12	0/12	ND
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	ND
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	ND
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	ND
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	ND
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	ND
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	ND
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
110 Springinsguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-39: SOLUBLE CADMIUM VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	ND
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	ND
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	ND
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	ND
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	ND
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	ND
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	ND
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	ND
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	ND
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	ND
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	ND
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	ND
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	ND
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	ND
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	ND
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
110 Springinsguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-40: SOLUBLE COPPER VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	ND
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	ND
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	ND
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	ND
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	ND
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	ND
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	ND
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	ND
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	ND
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	1/11	0/10	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	ND
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	ND
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	ND
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	ND
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	ND
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	ND
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
110 Springinsguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-41: SOLUBLE CHROMIUM VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	ND
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	ND
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	ND
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	ND
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	ND
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	ND
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	ND
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	ND
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/10	0/11	0/12	0/12	0/12	ND
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	ND
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	ND
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	ND
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	ND
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	ND
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	ND
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
110 Springinsguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-42: SOLUBLE IRON VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	0/6
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	0/11
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	0/10
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	0/9
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	0/10
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	0/12
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	0/12
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	0/12
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	0/9
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	0/11
36 Touhy Avenue, North Shore Channel	0/10	0/12	0/12	0/12	0/12	0/12	0/12	0/12
101 Foster Avenue, North Shore Channel	0/12	0/12	0/12	0/12	0/13	0/12	0/12	0/12
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	0/11	0/12	0/12	0/12	0/12	0/12
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	0/12
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	0/12
39 Madison Street, South Branch Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/11	0/12
108 Loomis Street, South Branch Chicago River	0/12	0/11	0/12	0/12	0/10	0/12	0/12	0/12
99 Archer Avenue, South Fork South Branch Chicago River	0/11	0/12	0/11	0/7	0/11	0/12	0/12	0/12
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0/12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/12	0/12	0/12	0/13	0/12	0/12	0/12	0/12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/11	0/11	0/12	0/13	0/12	0/12	0/12	0/12
42 Route 83, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	0/12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/10	0/12	0/11	0/13	0/11	0/12	0/12	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	0/51	0/51	0/53	0/52	0/52	0/52	0/51
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	0/12
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	0/12
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	0/12
51 IHB Railroad Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/5	0/10	1/10	0/11	0/10	0/9	0/10	0/11
56 Indiana Avenue, Little Calumet River	0/8	0/9	0/9	0/11	0/9	0/9	0/11	0/12
76 Halsted Street, Little Calumet River	0/11	0/12	0/11	0/11	0/12	0/12	0/11	0/12
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	0/11
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	0/7
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	0/11
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	0/12
58 Ashland Avenue, Calumet-Sag Channel	0/11	0/12	0/11	0/11	0/12	0/12	0/12	0/12
59 Cicero Avenue, Calumet-Sag Channel	0/10	0/11	0/11	0/11	0/12	0/12	0/11	0/12
43 Route 83, Calumet-Sag Channel	0/10	0/10	1/11	0/11	0/11	0/10	0/11	0/12
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	0/9
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	0/12
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/12
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	0/8
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	0/10
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	0/10
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/6
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/4
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	0/6
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	0/12
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	0/7
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	0/12
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/11
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	0/12
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	0/12
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	0/10
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	0/12
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	0/12
110 Springinguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

ND = No Data.

TABLE AII-43: SOLUBLE LEAD VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	ND
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	ND
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	ND
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	ND
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	ND
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	ND
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	ND
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	ND
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/10	0/11	0/12	0/12	0/12	ND
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	ND
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	ND
97 170th Street, Thorn Creek	0/8	0/11	0/11	0/11	0/11	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	ND
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	ND
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	ND
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	ND
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
110 Springinsguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-44: SOLUBLE NICKEL VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	ND
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	ND
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	ND
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	ND
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	ND
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	ND
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/11	0/12	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	ND
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	ND
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/11	0/11	0/12	0/12	0/12	ND
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	ND
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	ND
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/11	0/11	0/11	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	ND
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	ND
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	ND
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	ND
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
110 Springinsguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-45: SOLUBLE MERCURY VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/3	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	0/1	0/3	0/2	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	0/3	0/2	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	0/5	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	0/2	0/4	0/2	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	0/2	0/5	0/4	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	0/1	0/4	0/2	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	0/1	0/2	0/2	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	0/1	ND	0/1	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	0/1	0/5	ND	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	0/3	0/4	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	0/1	0/3	0/3	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	0/1	0/1	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	0/2	0/5	ND
55 130th Street, Calumet River	ND	ND	ND	0/1	ND	0/2	ND	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	0/1	0/1	ND	0/2	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	0/1	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	0/3	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	0/1	0/3	0/2	0/3	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	ND	ND	0/1	ND	0/2	0/4	0/1	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	0/3	0/1	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	0/3	0/4	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	0/1	0/3	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	0/2	0/2	0/2	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	0/2	0/3	0/1	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	0/2	0/3	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	0/5	0/1	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	0/2	0/1	ND
78 Wille Road, Higgins Creek	ND	ND	ND	0/1	0/1	0/2	0/3	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	0/1	0/1	0/2	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	0/1	0/3	0/2	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	0/1	0/1	0/1	0/4	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	0/3	0/4	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	0/3	0/2	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	0/2	0/1	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	0/1	0/1	0/2	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	0/1	ND	0/2	0/2	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	0/1	0/1	0/2	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	0/1	0/3	ND	ND

NA = Not Applicable.
ND = No Data.

TABLE AII-46: SOLUBLE ZINC VIOLATION HISTORY
2002 THROUGH 2009

Sampling Station (No. Name)	Ratio of Violations/Sampling Frequency per Year							
	09	08	07	06	05	04	03	02
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	0/11	0/11	0/4	0/5	0/4	0/8	0/3	ND
103 Golf Road, West Fork North Branch Chicago River	0/11	0/10	0/11	0/12	0/10	0/10	0/8	ND
31 Lake-Cook Road, Middle Fork North Branch	0/10	0/10	0/10	0/11	0/10	0/10	0/9	ND
104 Glenview Road, North Branch Chicago River	0/12	0/12	0/11	0/12	0/12	0/12	0/3	ND
32 Lake-Cook Road, Skokie River	0/10	0/10	0/10	0/12	0/11	0/10	0/9	ND
105 Frontage Road, Skokie River	0/12	0/12	0/11	0/12	0/12	0/12	0/12	ND
34 Dempster Street, North Branch Chicago River	0/12	0/11	0/11	0/12	0/11	0/12	0/11	ND
96 Albany Avenue, North Branch Chicago River	0/12	0/12	0/11	0/12	0/11	0/11	0/10	ND
35 Central Street, North Shore Channel	0/9	0/9	0/9	0/9	0/8	0/9	0/9	ND
102 Oakton Street, North Shore Channel	0/11	0/11	0/12	0/12	0/12	0/12	0/10	ND
36 Touhy Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
101 Foster Avenue, North Shore Channel	NA	NA	NA	NA	NA	NA	NA	ND
37 Wilson Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
73 Diversey Parkway, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
46 Grand Avenue, North Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
74 Lake Shore Drive, Chicago River	0/9	0/10	0/11	0/11	0/10	0/9	0/10	ND
100 Wells Street, Chicago River	0/11	0/12	0/11	0/12	0/12	0/12	0/12	ND
39 Madison Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
108 Loomis Street, South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
99 Archer Avenue, South Fork South Branch Chicago River	NA	NA	NA	NA	NA	NA	NA	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
42 Route 83, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	NA	NA	NA	NA	NA	NA	NA	ND
Calumet River System								
49 Ewing Avenue, Calumet River	0/7	0/9	0/10	0/11	0/11	0/10	0/12	ND
50 Burnham Avenue, Wolf Lake	0/10	0/12	0/10	0/11	0/12	0/12	0/12	ND
55 130th Street, Calumet River	0/9	0/9	0/10	0/11	0/11	0/11	0/10	ND
51 IHB Railroad Bridge, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
86 Burnham Avenue, Grand Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
56 Indiana Avenue, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
76 Halsted Street, Little Calumet River	NA	NA	NA	NA	NA	NA	NA	ND
52 Wentworth Avenue, Little Calumet River	0/10	0/10	0/11	0/11	0/11	0/9	0/10	ND
54 Joe Orr Road, Thorn Creek	0/9	0/9	0/10	0/9	0/8	0/7	0/3	ND
97 170th Street, Thorn Creek	0/9	0/11	0/11	0/11	0/11	0/11	0/10	ND
57 Ashland Avenue, Little Calumet River	0/9	0/10	0/11	0/11	0/11	0/10	0/10	ND
58 Ashland Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
59 Cicero Avenue, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
43 Route 83, Calumet-Sag Channel	NA	NA	NA	NA	NA	NA	NA	ND
Des Plaines River System								
90 Route 19, Poplar Creek	0/11	0/11	0/11	0/12	0/11	0/11	0/10	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0/1	ND
89 Walnut Lane, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/11	0/11	ND
64 Lake Street, West Branch DuPage River	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
79 Higgins Road, Salt Creek	0/8	0/9	0/10	0/9	0/9	0/11	0/9	ND
80 Arlington Heights Road, Salt Creek	0/12	0/12	0/12	0/12	0/12	0/12	0/12	ND
18 Devon Avenue, Salt Creek	0/11	0/12	0/12	0/12	0/12	0/12	0/12	ND
24 Wolf Road, Salt Creek	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
109 Brookfield Avenue, Salt Creek	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0/4	0/5	0/5	0/7	0/4	0/6	0/5	ND
78 Wille Road, Higgins Creek	0/12	0/12	0/12	0/12	0/12	0/10	0/12	ND
12 Lake-Cook Road, Buffalo Creek	0/9	0/11	0/9	0/9	0/7	0/7	0/8	ND
13 Lake-Cook Road, Des Plaines River	0/12	0/12	0/12	0/12	0/12	0/11	0/12	ND
17 Oakton Street, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
19 Belmont Avenue, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
20 Roosevelt Road, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/7	ND
22 Ogden Avenue, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/5	ND
23 Willow Springs Road, Des Plaines River	0/11	0/11	0/11	0/12	0/12	0/11	0/10	ND
29 Stephen Street, Des Plaines River	0/11	0/12	0/11	0/12	0/12	0/11	0/11	ND
91 Material Service Road, Des Plaines River	0/12	0/12	0/11	0/12	0/12	0/11	0/12	ND
110 Springinsguth Road, West Branch DuPage River	0/9	0/11	0/10	0/11	0/11	0/10	ND	ND

NA = Not Applicable.
ND = No Data.

**TABLE AII-47: BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY
1999 THROUGH 2009**

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	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	ND	ND	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	ND	ND	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	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	4.00	2.00	2.89	3.50	3.30	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	1.00	2.00	2.56	1.56	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	8.00	3.33	3.30	3.45	2.30	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	11.00	6.42	7.58	6.58	6.90	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	8.00	5.92	5.42	6.58	4.90	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	10.00	5.67	5.25	4.92	4.10	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	6.00	3.25	3.25	3.00	3.80	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	2.00	3.17	2.67	1.83	4.00	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	1.33	2.70	2.08	0.80	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	3.00	2.17	3.25	2.33	1.57	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	4.00	2.92	3.91	2.58	2.50	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	3.00	2.92	4.25	2.92	1.89	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	6.08	3.73	4.83	4.80	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	4.00	2.42	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	3.75	4.60	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	4.00	3.75	4.67	2.58	2.20	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	5.00	3.17	3.33	2.25	2.90	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.00	2.83	2.75	2.58	2.90	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	3.00	1.83	2.50	1.25	1.67	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	6.60	6.20	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	3.14	1.50	1.65	1.74	2.82	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	1.10	0.92	0.92	0.60	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	0.00	ND	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	0.27	1.90	1.67	0.60	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	4.50	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	1.78	2.36	2.42	2.75	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	4.00	1.75	2.64	1.58	2.90	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	3.00	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	2.00	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	3.50	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	2.40	4.50	2.17	3.33	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	3.00	0.83	3.00	1.25	2.50	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	3.00	1.55	2.00	2.50	2.30	ND	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	1.89	2.00	1.58	2.30	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	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
89 Walnut Lane, West Branch DuPage River	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
79 Higgins Road, Salt Creek	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
18 Devon Avenue, Salt Creek	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
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	ND	ND	ND
77 Elmhurst Road, Higgins Creek	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
12 Lake-Cook Road, Buffalo Creek	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
17 Oakton Street, Des Plaines River	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
20 Roosevelt Road, Des Plaines River	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
23 Willow Springs Road, Des Plaines River	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
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-48: CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	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	ND	ND	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	ND	ND	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	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	3.00	1.86	1.78	2.36	2.30	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	1.00	1.67	1.11	0.22	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	0.00	2.08	1.44	1.91	2.00	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	4.00	2.50	2.25	2.00	2.20	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	2.00	1.92	1.75	2.33	1.30	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	4.00	1.67	2.50	2.08	1.40	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	2.00	1.33	1.17	1.33	1.20	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	1.50	1.50	0.92	0.50	0.50	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	1.11	2.80	1.50	0.50	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	3.00	1.58	1.67	1.64	0.00	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	2.00	1.42	2.00	1.42	1.10	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	0.00	1.25	2.58	1.50	0.89	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	3.08	1.58	2.25	3.50	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	2.00	1.42	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	1.75	1.40	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	3.00	1.67	0.83	0.75	1.30	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	3.00	1.50	1.33	0.50	1.30	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	2.00	0.50	1.25	0.58	1.10	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.00	0.58	1.17	0.50	1.00	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	ND	ND	ND	ND	0.71	0.61	0.52	0.40	0.00	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	0.50	1.33	0.83	0.60	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	0.00	ND	ND
55 130th Street, Calumet River	ND	ND	ND	ND	ND	0.27	1.40	1.25	0.50	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	3.50	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	0.00	1.36	1.92	1.38	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	4.00	1.08	1.00	0.67	1.40	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	1.00	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	2.00	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	2.00	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	1.40	2.10	1.58	1.78	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	3.00	1.08	1.50	0.67	1.10	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	4.00	0.83	1.27	0.92	1.50	ND	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	0.60	1.18	0.83	0.70	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	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
89 Walnut Lane, West Branch DuPage River	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
79 Higgins Road, Salt Creek	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
18 Devon Avenue, Salt Creek	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
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	ND	ND	ND
77 Elmhurst Road, Higgins Creek	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
12 Lake-Cook Road, Buffalo Creek	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
17 Oakton Street, Des Plaines River	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
20 Roosevelt Road, Des Plaines River	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
23 Willow Springs Road, Des Plaines River	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
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-49: DISSOLVED OXYGEN MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	10.75	10.50	ND
106 Dundee Road, West Fork North Branch Chicago River	7.78	6.93	8.75	8.10	10.30	8.02	7.00	9.12	9.54	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.27	7.21	7.31	8.58	7.38	7.64	6.86	7.10	6.98	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.88	6.55	6.16	7.15	5.42	6.46	6.22	6.55	6.91	6.99	6.72
104 Glenview Road, North Branch Chicago River	7.53	7.39	6.90	7.98	8.12	8.03	7.47	8.08	7.36	ND	ND
32 Lake-Cook Road, Skokie River	7.75	7.35	7.21	7.75	7.75	7.73	6.67	7.14	7.65	7.25	6.59
105 Frontage Road, Skokie River	7.77	7.61	7.76	9.27	8.79	8.33	7.95	8.15	7.49	ND	ND
34 Dempster Street, North Branch Chicago River	7.88	7.01	6.52	8.23	7.16	8.21	7.45	7.75	7.29	7.50	7.93
96 Albany Avenue, North Branch Chicago River	8.64	8.22	8.19	9.18	8.63	9.12	7.77	7.71	7.42	6.80	ND
35 Central Street, North Shore Channel	9.23	7.30	8.23	8.63	7.50	7.53	8.08	7.34	8.03	7.48	7.51
102 Oakton Street, North Shore Channel	8.19	7.57	7.76	8.73	7.95	7.26	6.32	6.58	5.80	ND	ND
36 Touhy Avenue, North Shore Channel	8.29	7.83	7.65	7.93	7.98	8.10	7.54	6.90	7.39	7.24	7.43
101 Foster Avenue, North Shore Channel	7.67	7.21	7.13	7.20	7.30	7.58	7.42	6.53	6.87	ND	ND
37 Wilson Avenue, North Branch Chicago River	8.43	7.43	7.58	7.83	7.03	7.55	7.14	6.74	7.13	6.68	6.75
73 Diversey Parkway, North Branch Chicago River	7.91	6.94	6.75	7.25	6.44	6.71	6.25	5.74	6.18	5.84	5.81
46 Grand Avenue, North Branch Chicago River	7.25	6.73	6.67	6.85	6.30	6.47	6.12	5.86	6.00	6.13	6.53
74 Lake Shore Drive, Chicago River	9.27	8.76	9.00	9.19	9.08	8.50	7.62	9.03	7.99	8.04	9.26
100 Wells Street, Chicago River	8.57	8.03	8.39	8.68	8.96	8.56	7.54	7.83	7.27	ND	ND
39 Madison Street, South Branch Chicago River	7.27	7.53	7.45	7.79	7.85	6.86	5.73	6.38	6.32	6.67	6.89
108 Loomis Street, South Branch Chicago River	6.84	6.89	7.21	7.81	7.78	7.23	5.97	5.86	5.79	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	4.76	5.33	6.19	6.00	6.65	5.63	5.29	3.91	2.62	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	6.97	6.49	7.25	7.44	7.59	6.71	5.68	ND	ND	5.43	6.19
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	5.60	5.34	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.43	5.32	6.22	6.04	6.11	5.77	5.18	5.18	5.28	4.98	5.99
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.68	7.13	6.59	7.30	7.29	6.92	6.81	6.95	6.60	6.52	7.16
42 Route 83, Chicago Sanitary & Ship Canal	6.31	6.23	6.00	5.46	5.90	6.06	5.85	6.09	5.46	5.46	5.76
48 Stephen Street, Chicago Sanitary & Ship Canal	7.00	6.78	5.98	5.43	6.25	6.25	5.78	5.73	5.38	5.40	5.63
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	6.28	6.19	6.07	5.68	5.86	5.67	5.57	5.32	5.34	5.65	ND
Calumet River System											
49 Ewing Avenue, Calumet River	9.07	8.84	9.66	9.50	9.99	9.24	9.73	9.65	8.99	9.44	9.81
50 Burnham Avenue, Wolf Lake	8.45	8.58	8.79	9.63	9.25	9.79	8.91	9.77	8.70	9.33	9.45
55 130th Street, Calumet River	8.43	8.22	8.91	8.45	9.26	9.13	8.27	9.17	8.41	8.43	8.97
86 Burnham Avenue, Grand Calumet River	4.66	6.51	4.21	6.20	4.80	4.93	3.94	6.22	4.19	4.43	5.14
56 Indiana Avenue, Little Calumet River	8.45	7.89	7.49	9.61	8.83	7.71	8.40	8.69	8.59	8.20	8.48
76 Halsted Street, Little Calumet River	7.14	6.30	6.35	6.27	6.98	7.13	7.00	6.92	6.69	6.60	6.69
52 Wentworth Avenue, Little Calumet River	7.10	6.22	6.43	7.49	6.45	6.40	6.53	6.47	6.20	6.52	6.23
54 Joe Orr Road, Thorn Creek	8.04	8.21	8.19	7.72	7.65	8.57	8.40	8.54	8.27	8.28	8.85
97 170th Street, Thorn Creek	7.24	7.01	7.34	7.15	7.85	8.37	7.80	8.37	7.29	ND	ND
57 Ashland Avenue, Little Calumet River	6.79	6.54	6.50	7.27	6.35	6.99	5.42	7.29	5.75	6.28	5.80
58 Ashland Avenue, Calumet-Sag Channel	7.52	6.63	6.54	7.15	7.23	7.25	6.98	6.48	6.41	6.37	6.21
59 Cicero Avenue, Calumet-Sag Channel	7.02	6.92	6.79	6.24	6.56	6.80	7.23	6.85	5.93	6.35	6.12
43 Route 83, Calumet-Sag Channel	6.72	7.22	6.51	6.70	7.38	6.39	7.88	6.93	6.04	6.17	5.95
Des Plaines River System											
90 Route 19, Poplar Creek	8.58	8.61	9.64	9.78	8.47	10.16	9.16	8.94	9.52	7.91	10.15
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	8.90	ND	8.18	7.50	10.04
89 Walnut Lane, West Branch DuPage River	8.75	8.35	8.68	8.28	7.78	8.03	7.48	7.64	6.82	7.01	8.20
64 Lake Street, West Branch DuPage River	9.03	8.65	8.91	8.68	8.61	7.41	8.05	8.38	8.25	7.79	8.74
79 Higgins Road, Salt Creek	7.41	7.18	7.80	8.78	6.24	8.97	7.37	7.59	8.88	7.09	9.07
80 Arlington Heights Road, Salt Creek	8.11	7.83	8.78	8.77	8.48	8.01	7.79	8.07	8.29	7.79	7.97
18 Devon Avenue, Salt Creek	8.09	8.48	8.94	8.89	9.04	8.33	7.59	7.96	8.24	7.78	7.93
24 Wolf Road, Salt Creek	8.82	8.27	8.23	8.51	8.61	8.19	8.64	7.79	8.50	7.74	9.04
109 Brookfield Avenue, Salt Creek	8.39	7.35	7.59	7.58	7.81	8.02	8.13	5.98	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	10.90	7.98	6.72	7.65
77 Elmhurst Road, Higgins Creek	8.55	8.82	8.66	8.43	9.15	8.80	7.48	8.22	8.42	7.71	9.39
78 Wille Road, Higgins Creek	8.81	8.46	8.76	9.04	8.88	9.15	8.16	8.55	8.93	8.43	8.61
12 Lake-Cook Road, Buffalo Creek	9.26	8.84	8.83	8.69	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	8.43	8.00	8.55	8.76	8.59	8.83	8.30	9.35	9.02	8.04	8.46
17 Oakton Street, Des Plaines River	9.38	8.34	8.39	8.35	8.39	8.83	7.57	8.17	9.00	7.66	8.32
19 Belmont Avenue, Des Plaines River	8.34	7.50	7.67	8.43	7.55	7.91	7.64	7.74	8.59	6.41	7.26
20 Roosevelt Road, Des Plaines River	8.60	7.55	7.62	8.16	7.57	8.13	7.16	7.96	8.31	6.44	7.24
22 Ogden Avenue, Des Plaines River	9.14	8.24	8.94	9.00	9.13	9.27	12.06	9.34	9.20	7.72	8.43
23 Willow Springs Road, Des Plaines River	8.80	8.00	8.65	8.24	9.08	9.19	8.66	8.99	9.44	7.65	8.68
29 Stephen Street, Des Plaines River	9.97	8.94	8.56	8.90	9.91	9.62	9.95	9.53	9.98	7.81	9.15
91 Material Service Road, Des Plaines River	9.33	8.78	9.38	9.68	10.31	10.65	9.65	10.31	8.71	8.42	ND
110 Springinguth Road, West Branch DuPage River	6.23	6.16	6.17	6.23	6.80	6.31	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-50: TEMPERATURE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (°C)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	4.1	1.1	ND
106 Dundee Road, West Fork North Branch Chicago River	11.3	13.6	9.8	13.2	12.4	12.1	19.4	10.8	16.9	ND	ND
103 Golf Road, West Fork North Branch Chicago River	13.4	13.8	15.4	13.4	15.2	16.7	15.2	12.5	15.8	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	12.4	12.7	15.7	12.6	16.1	15.3	16.7	11.7	14.2	15.5	13.9
104 Glenview Road, North Branch Chicago River	12.5	11.5	14.8	12.9	15.1	13.9	16.5	10.4	15.9	ND	ND
32 Lake-Cook Road, Skokie River	13.4	12.3	16.2	12.9	17.1	15.2	16.1	11.9	14.4	15.5	14.0
105 Frontage Road, Skokie River	12.3	12.3	14.9	13.1	14.4	13.9	15.1	12.7	16.7	ND	ND
34 Dempster Street, North Branch Chicago River	11.9	13.5	14.7	12.8	16.7	15.3	14.3	12.3	14.2	15.3	14.5
96 Albany Avenue, North Branch Chicago River	12.1	12.6	15.1	13.0	15.5	14.3	15.2	12.9	15.3	16.0	ND
35 Central Street, North Shore Channel	14.9	15.9	15.5	18.6	17.9	17.4	17.9	14.3	15.3	18.0	15.9
102 Oakton Street, North Shore Channel	13.2	14.7	14.3	15.0	16.1	12.8	16.2	14.9	16.8	ND	ND
36 Touhy Avenue, North Shore Channel	13.9	14.8	17.0	15.6	16.4	14.7	17.0	16.5	16.9	15.8	16.9
101 Foster Avenue, North Shore Channel	14.8	14.7	16.7	15.8	16.8	15.8	17.9	15.3	17.8	ND	ND
37 Wilson Avenue, North Branch Chicago River	13.7	14.2	15.7	15.2	17.5	17.3	17.1	15.1	15.1	14.9	16.0
73 Diversey Parkway, North Branch Chicago River	13.8	13.5	15.5	15.0	17.4	16.9	16.0	15.2	15.3	15.4	16.5
46 Grand Avenue, North Branch Chicago River	13.4	13.6	16.5	14.9	17.5	16.7	14.5	15.3	15.6	14.4	15.1
74 Lake Shore Drive, Chicago River	13.7	14.6	14.5	14.0	15.2	17.5	15.5	12.8	14.0	13.8	14.9
100 Wells Street, Chicago River	13.7	12.8	14.5	13.9	13.4	14.4	14.1	14.0	16.4	ND	ND
39 Madison Street, South Branch Chicago River	13.7	12.4	14.1	14.0	13.3	14.3	12.7	14.1	15.0	14.7	14.7
108 Loomis Street, South Branch Chicago River	16.4	15.3	16.3	16.7	15.5	18.4	17.1	17.8	20.0	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	15.4	14.6	16.6	18.9	15.8	16.5	16.1	17.2	18.5	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	15.4	14.4	16.3	16.6	15.5	16.9	16.8	ND	ND	18.3	16.8
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	17.1	17.8	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	17.3	17.9	20.2	17.7	20.0	18.1	20.8	18.8	18.1	18.7	15.6
41 Harlem Avenue, Chicago Sanitary & Ship Canal	16.4	16.8	16.3	16.4	17.3	17.6	17.5	16.9	17.1	17.0	17.9
42 Route 83, Chicago Sanitary & Ship Canal	16.5	17.7	18.7	18.4	17.7	15.3	17.5	16.6	16.9	19.1	18.0
48 Stephen Street, Chicago Sanitary & Ship Canal	15.8	16.8	17.4	16.3	16.1	15.8	15.6	16.4	16.9	18.3	18.5
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	17.4	17.9	19.8	19.4	19.3	18.1	17.9	18.7	18.3	19.1	ND
Calumet River System											
49 Ewing Avenue, Calumet River	14.0	15.0	16.3	14.0	16.2	14.2	12.4	12.7	13.0	13.4	13.5
50 Burnham Avenue, Wolf Lake	17.0	11.5	16.3	13.9	14.5	13.0	14.2	12.1	14.1	13.5	13.6
55 130th Street, Calumet River	16.6	14.6	17.6	13.5	15.8	15.6	14.4	12.3	15.1	14.8	15.7
86 Burnham Avenue, Grand Calumet River	17.8	11.9	16.8	13.7	16.2	15.4	15.6	12.9	15.5	15.1	15.3
56 Indiana Avenue, Little Calumet River	17.1	16.2	18.6	14.6	16.0	16.7	16.2	13.6	17.8	15.2	15.7
76 Halsted Street, Little Calumet River	14.4	14.1	17.2	15.3	16.4	13.5	15.7	14.8	15.0	16.2	16.5
52 Wentworth Avenue, Little Calumet River	15.9	13.2	14.9	14.1	14.5	14.3	16.2	13.1	13.9	14.6	15.3
54 Joe Orr Road, Thorn Creek	16.7	13.9	16.3	15.1	15.0	15.3	14.9	15.0	15.9	17.3	15.0
97 170th Street, Thorn Creek	16.4	12.1	15.4	14.7	13.4	14.7	15.3	14.4	15.5	ND	ND
57 Ashland Avenue, Little Calumet River	16.5	15.4	15.3	15.7	15.7	16.2	17.1	12.9	15.7	15.6	16.0
58 Ashland Avenue, Calumet-Sag Channel	14.3	13.8	16.3	14.3	15.8	14.2	15.1	14.5	14.7	15.7	16.7
59 Cicero Avenue, Calumet-Sag Channel	15.9	14.2	16.5	16.6	15.0	16.6	16.9	16.3	14.5	15.5	16.6
43 Route 83, Calumet-Sag Channel	16.2	15.4	17.3	15.1	16.7	20.0	16.8	14.9	14.2	15.5	16.5
Des Plaines River System											
90 Route 19, Poplar Creek	13.6	14.5	14.3	13.2	15.1	15.0	13.8	16.3	14.0	17.7	13.1
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	20.4	ND	11.3	16.2	13.9
89 Walnut Lane, West Branch DuPage River	15.7	16.3	15.7	13.8	16.9	16.1	16.6	15.5	15.8	15.2	16.1
64 Lake Street, West Branch DuPage River	13.5	15.3	14.8	14.5	16.5	15.9	14.4	14.2	16.0	15.5	14.7
79 Higgins Road, Salt Creek	16.7	18.2	15.8	18.6	19.2	15.0	15.1	18.9	16.8	15.9	14.4
80 Arlington Heights Road, Salt Creek	13.6	15.0	15.0	14.6	16.4	15.9	14.9	14.2	14.5	14.2	15.2
18 Devon Avenue, Salt Creek	14.0	14.6	14.3	14.0	15.3	15.4	16.0	14.6	14.5	14.5	14.8
24 Wolf Road, Salt Creek	12.1	14.6	14.6	13.5	14.8	16.2	12.9	12.3	13.8	16.3	14.8
109 Brookfield Avenue, Salt Creek	12.3	15.2	14.5	12.8	14.9	15.1	14.1	15.9	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	3.4	13.5	15.3	13.5
77 Elmhurst Road, Higgins Creek	12.2	10.5	14.0	13.3	12.3	12.7	15.4	15.0	14.5	15.2	14.0
78 Wille Road, Higgins Creek	13.8	17.6	16.2	16.1	17.1	15.6	15.4	16.0	15.6	16.3	16.1
12 Lake-Cook Road, Buffalo Creek	10.5	13.9	14.2	11.1	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	11.1	14.7	13.1	12.9	15.8	14.1	12.4	12.2	13.3	13.3	12.9
17 Oakton Street, Des Plaines River	12.8	15.8	14.4	13.6	15.9	15.2	15.5	14.4	13.5	15.1	13.8
19 Belmont Avenue, Des Plaines River	11.8	15.3	14.8	14.2	15.3	16.2	13.6	12.1	13.5	15.1	13.7
20 Roosevelt Road, Des Plaines River	13.4	15.7	15.2	13.8	15.4	15.7	15.3	12.2	13.8	15.0	13.3
22 Ogden Avenue, Des Plaines River	11.8	14.9	14.4	13.0	15.1	16.5	6.0	11.3	13.9	15.5	14.1
23 Willow Springs Road, Des Plaines River	12.1	15.2	15.7	12.7	14.7	16.1	15.0	14.4	13.6	16.1	14.8
29 Stephen Street, Des Plaines River	12.6	14.3	15.5	13.4	15.1	17.2	13.8	12.3	14.2	16.6	14.9
91 Material Service Road, Des Plaines River	11.7	14.7	15.8	13.8	15.0	17.1	13.2	12.5	16.2	15.1	ND
110 Springinguth Road, West Branch DuPage River	13.7	13.5	14.9	13.2	15.1	15.3	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-51: pH MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	7.50	8.00	ND
106 Dundee Road, West Fork North Branch Chicago River	7.18	7.52	7.64	7.22	7.53	7.33	7.57	7.54	7.38	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.49	7.44	7.50	7.47	7.42	7.72	7.65	7.77	7.75	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	7.60	7.64	7.67	7.47	7.26	7.32	7.59	7.44	7.60	7.79	7.87
104 Glenview Road, North Branch Chicago River	7.76	7.86	7.85	7.71	7.22	7.45	7.97	7.73	7.63	ND	ND
32 Lake-Cook Road, Skokie River	7.66	7.74	7.85	7.66	7.19	7.34	7.59	7.43	7.61	7.95	7.96
105 Frontage Road, Skokie River	7.64	7.77	7.88	7.68	7.19	7.47	7.65	7.69	7.70	ND	ND
34 Dempster Street, North Branch Chicago River	7.78	7.61	7.67	7.74	7.45	7.72	7.72	7.59	7.62	7.78	7.84
96 Albany Avenue, North Branch Chicago River	7.88	7.80	7.77	7.59	7.30	7.53	7.69	7.81	7.40	7.65	ND
35 Central Street, North Shore Channel	7.83	7.80	7.78	7.70	7.65	7.89	7.31	7.90	7.77	8.31	8.12
102 Oakton Street, North Shore Channel	7.67	7.69	7.58	7.56	7.35	7.73	7.13	7.36	7.37	ND	ND
36 Touhy Avenue, North Shore Channel	7.33	7.40	7.40	7.23	7.14	7.41	7.25	7.38	7.19	7.63	7.56
101 Foster Avenue, North Shore Channel	7.33	7.31	7.25	7.13	7.18	7.27	7.13	7.28	7.14	ND	ND
37 Wilson Avenue, North Branch Chicago River	7.54	7.40	7.44	7.39	7.32	7.59	7.50	7.44	7.29	7.57	7.58
73 Diversey Parkway, North Branch Chicago River	7.30	7.42	7.21	7.36	7.23	7.37	7.26	7.45	7.12	7.59	7.41
46 Grand Avenue, North Branch Chicago River	7.49	7.43	7.45	7.37	7.21	7.47	7.41	7.36	7.09	7.60	7.74
74 Lake Shore Drive, Chicago River	7.49	7.64	7.60	7.75	7.52	7.73	7.33	7.43	7.95	7.70	8.09
100 Wells Street, Chicago River	7.68	7.62	7.68	7.72	7.44	7.49	7.30	7.23	7.66	ND	ND
39 Madison Street, South Branch Chicago River	7.45	7.42	7.65	7.49	7.41	7.31	7.25	7.23	7.39	7.54	7.89
108 Loomis Street, South Branch Chicago River	7.42	7.59	7.50	7.46	7.44	7.30	7.36	7.25	7.02	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	7.25	7.42	7.45	7.38	7.27	7.27	7.35	7.13	7.03	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.46	7.54	7.49	7.46	7.39	7.40	7.38	ND	ND	7.45	7.72
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	7.10	7.06	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.14	7.19	7.29	7.22	7.23	7.47	7.27	7.16	7.23	7.27	7.85
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.24	7.41	7.27	7.20	7.11	7.47	7.23	7.17	7.19	7.42	7.67
42 Route 83, Chicago Sanitary & Ship Canal	6.96	7.10	7.13	6.92	7.08	7.40	7.12	7.22	7.13	7.32	7.71
48 Stephen Street, Chicago Sanitary & Ship Canal	7.28	7.57	7.32	7.08	7.03	7.34	7.25	7.26	7.23	7.48	7.62
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.75	7.61
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.39	7.40	7.31	7.29	7.20	7.38	7.33	7.27	7.11	7.28	ND
Calumet River System											
49 Ewing Avenue, Calumet River	7.45	7.45	7.77	7.72	7.48	8.01	7.65	7.55	7.47	7.96	8.19
50 Burnham Avenue, Wolf Lake	7.81	8.04	8.29	8.26	7.65	7.82	8.18	7.91	7.76	8.06	8.29
55 130th Street, Calumet River	7.84	7.92	7.85	7.94	7.64	7.78	7.86	7.87	7.41	7.72	8.21
86 Burnham Avenue, Grand Calumet River	7.35	7.69	7.64	7.43	7.30	7.51	7.58	7.73	7.39	7.74	7.79
56 Indiana Avenue, Little Calumet River	7.49	7.49	7.65	7.81	7.06	7.67	7.73	7.63	7.79	7.73	8.10
76 Halsted Street, Little Calumet River	7.31	7.34	7.40	7.51	7.11	7.40	7.36	7.35	7.21	7.47	7.82
52 Wentworth Avenue, Little Calumet River	7.77	7.86	7.77	7.75	7.16	7.43	7.63	7.56	7.31	7.84	7.95
54 Joe Orr Road, Thorn Creek	7.03	7.32	7.17	7.32	7.10	7.38	7.37	7.37	7.12	7.51	8.10
97 170th Street, Thorn Creek	7.76	7.83	7.71	7.70	6.96	7.44	7.61	7.58	7.14	ND	ND
57 Ashland Avenue, Little Calumet River	7.78	7.79	7.71	7.74	7.07	7.42	7.39	7.55	7.20	7.41	7.91
58 Ashland Avenue, Calumet-Sag Channel	7.48	7.44	7.42	7.40	6.91	7.33	7.47	7.37	7.26	7.31	7.78
59 Cicero Avenue, Calumet-Sag Channel	7.42	7.46	7.39	7.38	7.04	7.40	7.54	7.07	7.19	7.17	7.79
43 Route 83, Calumet-Sag Channel	7.55	7.70	7.51	7.55	7.25	7.46	7.66	6.99	7.16	7.17	7.72
Des Plaines River System											
90 Route 19, Poplar Creek	7.91	7.88	7.95	7.80	7.70	7.65	7.58	7.64	7.54	8.08	8.16
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	7.40	ND	7.43	7.95	7.90
89 Walnut Lane, West Branch DuPage River	7.48	7.58	7.59	7.43	7.40	7.44	7.37	7.46	7.42	8.13	7.89
64 Lake Street, West Branch DuPage River	7.77	7.74	7.81	7.64	7.57	7.48	7.48	7.66	7.50	8.30	7.71
79 Higgins Road, Salt Creek	7.77	7.57	7.80	7.94	7.39	7.54	7.54	7.74	7.50	8.16	8.24
80 Arlington Heights Road, Salt Creek	7.46	7.39	7.59	7.50	7.45	7.42	7.34	7.56	7.44	8.16	7.87
18 Devon Avenue, Salt Creek	7.55	7.51	7.63	7.55	7.44	7.35	7.39	7.26	7.58	8.03	7.85
24 Wolf Road, Salt Creek	7.30	7.41	7.52	7.31	7.30	7.67	7.31	7.45	7.63	7.78	8.05
109 Brookfield Avenue, Salt Creek	7.69	7.54	7.72	7.40	7.32	7.56	7.44	7.13	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	7.40	7.43	7.40	7.68
77 Elmhurst Road, Higgins Creek	7.76	7.88	7.80	7.40	7.39	7.80	7.54	7.35	7.65	7.81	8.02
78 Wille Road, Higgins Creek	7.58	7.63	7.67	7.54	7.37	7.66	7.58	7.14	7.72	7.60	7.77
12 Lake-Cook Road, Buffalo Creek	7.37	7.80	7.70	7.73	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	7.72	7.89	7.69	7.68	7.44	7.77	7.62	7.52	7.68	7.92	7.80
17 Oakton Street, Des Plaines River	7.78	8.01	7.79	7.57	7.44	7.63	7.67	7.34	7.69	7.75	7.89
19 Belmont Avenue, Des Plaines River	7.82	7.98	7.83	7.67	7.45	7.62	7.68	7.40	7.65	7.64	7.78
20 Roosevelt Road, Des Plaines River	7.91	8.02	7.84	7.89	7.49	7.67	7.71	7.32	7.59	7.68	7.77
22 Ogden Avenue, Des Plaines River	7.72	7.62	7.96	7.50	7.49	7.63	7.46	7.49	7.55	7.12	7.43
23 Willow Springs Road, Des Plaines River	7.91	7.86	7.79	7.62	7.62	7.63	7.59	7.60	7.66	7.83	8.13
29 Stephen Street, Des Plaines River	7.90	7.92	7.72	7.64	7.55	7.51	7.67	7.82	7.71	7.82	8.12
91 Material Service Road, Des Plaines River	8.13	8.04	7.98	7.87	7.74	7.65	7.80	7.85	7.40	7.65	ND
110 Springinsguth Road, West Branch DuPage River	7.53	7.40	7.76	7.54	7.43	7.49	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-52: ALKALINITY (TOTAL) MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	196	170	ND
106 Dundee Road, West Fork North Branch Chicago River	173	171	163	147	152	178	138	187	180	ND	ND
103 Golf Road, West Fork North Branch Chicago River	180	165	186	178	172	179	168	185	177	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	196	177	205	185	199	196	194	213	201	189	205
104 Glenview Road, North Branch Chicago River	184	168	173	165	156	182	170	183	189	ND	ND
32 Lake-Cook Road, Skokie River	203	188	215	184	183	209	191	210	210	200	191
105 Frontage Road, Skokie River	187	170	168	164	154	178	160	178	182	ND	ND
34 Dempster Street, North Branch Chicago River	180	165	175	170	164	175	159	180	179	163	171
96 Albany Avenue, North Branch Chicago River	186	164	174	173	167	169	170	176	186	161	ND
35 Central Street, North Shore Channel	119	113	121	117	115	116	117	119	111	126	129
102 Oakton Street, North Shore Channel	136	120	133	134	126	137	128	130	119	ND	ND
36 Touhy Avenue, North Shore Channel	156	145	142	144	136	151	140	149	151	137	142
101 Foster Avenue, North Shore Channel	149	145	142	145	135	144	137	149	142	ND	ND
37 Wilson Avenue, North Branch Chicago River	149	146	145	146	138	159	139	148	156	141	152
73 Diversey Parkway, North Branch Chicago River	152	147	147	146	135	156	139	144	155	138	150
46 Grand Avenue, North Branch Chicago River	150	141	147	147	144	156	145	147	157	143	151
74 Lake Shore Drive, Chicago River	118	111	124	120	120	119	116	120	125	123	117
100 Wells Street, Chicago River	130	125	125	127	123	125	130	130	132	ND	ND
39 Madison Street, South Branch Chicago River	150	134	135	142	137	137	140	141	147	137	144
108 Loomis Street, South Branch Chicago River	149	134	136	143	142	136	138	154	137	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	149	143	135	147	138	142	133	148	157	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	152	136	136	142	138	138	136	ND	ND	136	149
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	150	139	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	145	141	137	158	140	142	132	153	141	135	140
41 Harlem Avenue, Chicago Sanitary & Ship Canal	144	134	131	130	126	132	117	137	139	121	129
42 Route 83, Chicago Sanitary & Ship Canal	149	132	138	139	138	137	126	140	137	126	131
48 Stephen Street, Chicago Sanitary & Ship Canal	146	137	142	146	142	143	138	158	144	158	139
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	143	135
92 Lockport Forebay, Chicago Sanitary & Ship Canal	149	137	146	143	138	140	133	141	148	137	ND
Calumet River System											
49 Ewing Avenue, Calumet River	113	104	113	113	109	111	110	110	112	115	115
50 Burnham Avenue, Wolf Lake	102	98	104	100	109	111	104	96	96	101	98
55 130th Street, Calumet River	117	105	114	112	112	116	111	117	116	116	117
86 Burnham Avenue, Grand Calumet River	225	243	262	248	170	203	196	176	165	168	155
56 Indiana Avenue, Little Calumet River	136	125	137	127	125	129	127	138	126	127	129
76 Halsted Street, Little Calumet River	162	155	162	162	153	159	146	156	159	154	158
52 Wentworth Avenue, Little Calumet River	204	216	208	222	175	206	208	225	190	195	193
54 Joe Orr Road, Thorn Creek	190	185	177	189	152	183	158	183	195	172	175
97 170th Street, Thorn Creek	204	195	176	205	172	186	172	190	182	ND	ND
57 Ashland Avenue, Little Calumet River	193	192	174	208	168	180	182	194	174	190	184
58 Ashland Avenue, Calumet-Sag Channel	163	158	156	167	154	158	155	167	163	159	156
59 Cicero Avenue, Calumet-Sag Channel	165	154	154	171	150	150	151	157	161	161	156
43 Route 83, Calumet-Sag Channel	160	154	151	168	151	153	150	152	161	162	159
Des Plaines River System											
90 Route 19, Poplar Creek	227	211	210	190	188	216	185	209	207	196	239
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	118	ND	195	156	192
89 Walnut Lane, West Branch DuPage River	179	147	152	160	150	148	135	158	165	155	163
64 Lake Street, West Branch DuPage River	170	145	150	184	133	147	129	157	162	146	153
79 Higgins Road, Salt Creek	183	176	159	155	142	197	127	166	182	161	158
80 Arlington Heights Road, Salt Creek	152	126	133	142	136	149	133	151	147	136	166
18 Devon Avenue, Salt Creek	149	125	132	142	135	149	132	147	145	132	139
24 Wolf Road, Salt Creek	172	141	140	145	134	156	126	154	159	144	153
109 Brookfield Avenue, Salt Creek	169	142	139	144	133	160	125	128	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	185	161	150	150
77 Elmhurst Road, Higgins Creek	149	128	118	121	120	158	102	139	168	140	172
78 Wille Road, Higgins Creek	204	165	175	179	150	192	159	181	195	171	190
12 Lake-Cook Road, Buffalo Creek	211	197	188	181	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	201	199	201	189	179	196	168	214	210	191	253
17 Oakton Street, Des Plaines River	194	192	187	179	171	192	167	206	201	175	180
19 Belmont Avenue, Des Plaines River	196	180	179	177	167	189	155	192	203	172	177
20 Roosevelt Road, Des Plaines River	189	185	182	172	166	190	153	199	202	171	173
22 Ogden Avenue, Des Plaines River	182	170	164	163	151	176	155	181	190	160	164
23 Willow Springs Road, Des Plaines River	184	171	168	162	154	180	141	177	189	157	165
29 Stephen Street, Des Plaines River	180	173	172	169	159	180	149	181	188	165	166
91 Material Service Road, Des Plaines River	184	170	175	173	163	184	146	185	183	172	ND
110 Springinsguth Road, West Branch DuPage River	226	203	191	191	179	183	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-53: CHLORIDE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	856	847	ND
106 Dundee Road, West Fork North Branch Chicago River	403	388	297	339	456	552	181	293	371	ND	ND
103 Golf Road, West Fork North Branch Chicago River	321	330	329	344	501	298	270	244	227	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	219	293	286	258	318	205	217	185	203	217	177
104 Glenview Road, North Branch Chicago River	222	287	258	222	258	265	215	171	177	ND	ND
32 Lake-Cook Road, Skokie River	196	265	290	214	310	239	220	190	218	242	185
105 Frontage Road, Skokie River	208	275	228	207	236	203	177	162	167	ND	ND
34 Dempster Street, North Branch Chicago River	246	265	277	254	337	322	205	205	249	269	199
96 Albany Avenue, North Branch Chicago River	274	345	283	256	346	236	230	223	228	163	ND
35 Central Street, North Shore Channel	44	90	51	37	35	31	47	64	16	60	43
102 Oakton Street, North Shore Channel	107	138	133	90	135	104	80	99	36	ND	ND
36 Touhy Avenue, North Shore Channel	210	168	212	116	150	172	143	105	152	150	154
101 Foster Avenue, North Shore Channel	199	175	231	134	165	143	123	111	121	ND	ND
37 Wilson Avenue, North Branch Chicago River	218	216	249	145	209	183	159	133	192	202	193
73 Diversey Parkway, North Branch Chicago River	248	235	190	140	196	193	168	136	199	190	188
46 Grand Avenue, North Branch Chicago River	195	248	204	154	186	219	174	133	191	148	153
74 Lake Shore Drive, Chicago River	48	60	106	64	62	62	73	69	98	81	53
100 Wells Street, Chicago River	84	148	127	89	109	103	108	88	98	ND	ND
39 Madison Street, South Branch Chicago River	152	191	174	125	156	129	136	102	179	126	113
108 Loomis Street, South Branch Chicago River	152	193	207	143	158	141	137	122	96	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	146	194	190	110	150	148	134	127	117	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	154	190	218	137	153	142	137	ND	ND	134	107
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	122	138	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	155	211	228	136	156	161	150	130	148	124	106
41 Harlem Avenue, Chicago Sanitary & Ship Canal	187	195	267	146	162	167	149	124	170	166	155
42 Route 83, Chicago Sanitary & Ship Canal	174	214	187	151	170	221	156	144	203	139	171
48 Stephen Street, Chicago Sanitary & Ship Canal	163	199	165	152	164	179	160	156	202	126	139
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	225	151
92 Lockport Forebay, Chicago Sanitary & Ship Canal	170	230	194	158	181	195	166	151	187	179	ND
Calumet River System											
49 Ewing Avenue, Calumet River	38	33	46	44	38	31	35	40	59	51	42
50 Burnham Avenue, Wolf Lake	79	66	68	47	59	55	42	43	45	32	30
55 130th Street, Calumet River	98	104	88	83	75	69	64	68	93	74	67
86 Burnham Avenue, Grand Calumet River	148	134	144	155	137	138	176	200	180	177	198
56 Indiana Avenue, Little Calumet River	100	116	109	98	82	82	88	109	95	103	95
76 Halsted Street, Little Calumet River	150	202	181	153	174	154	133	127	162	150	139
52 Wentworth Avenue, Little Calumet River	110	150	132	122	140	160	179	189	137	155	143
54 Joe Orr Road, Thorn Creek	145	171	176	183	212	235	94	191	187	162	156
97 170th Street, Thorn Creek	163	183	158	182	228	222	217	194	163	ND	ND
57 Ashland Avenue, Little Calumet River	135	176	171	174	205	200	193	173	168	190	171
58 Ashland Avenue, Calumet-Sag Channel	147	207	161	161	180	167	155	147	167	164	131
59 Cicero Avenue, Calumet-Sag Channel	136	170	167	155	171	167	150	145	167	168	136
43 Route 83, Calumet-Sag Channel	139	164	164	150	144	156	142	144	179	168	130
Des Plaines River System											
90 Route 19, Poplar Creek	215	282	277	279	278	241	201	220	229	143	157
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	154	ND	283	189	257
89 Walnut Lane, West Branch DuPage River	170	196	187	193	181	207	205	169	171	153	127
64 Lake Street, West Branch DuPage River	188	232	235	201	211	198	186	190	198	160	133
79 Higgins Road, Salt Creek	258	385	353	287	409	363	235	260	327	278	218
80 Arlington Heights Road, Salt Creek	248	389	268	280	323	225	241	213	234	219	177
18 Devon Avenue, Salt Creek	231	384	287	283	320	236	250	204	247	223	178
24 Wolf Road, Salt Creek	244	346	275	241	261	250	241	254	268	220	186
109 Brookfield Avenue, Salt Creek	231	321	271	257	258	264	208	135	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	654	260	213	184
77 Elmhurst Road, Higgins Creek	305	548	259	571	478	514	424	460	479	336	294
78 Wille Road, Higgins Creek	233	274	247	217	220	190	213	259	221	191	168
12 Lake-Cook Road, Buffalo Creek	218	357	272	259	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	148	220	184	210	221	176	202	188	158	152	184
17 Oakton Street, Des Plaines River	154	238	195	245	251	197	202	224	182	141	137
19 Belmont Avenue, Des Plaines River	173	279	208	250	230	225	255	236	188	153	146
20 Roosevelt Road, Des Plaines River	164	285	214	249	260	211	173	265	190	157	146
22 Ogden Avenue, Des Plaines River	173	270	228	244	255	218	261	269	205	170	153
23 Willow Springs Road, Des Plaines River	177	275	238	234	268	222	197	226	204	177	160
29 Stephen Street, Des Plaines River	172	290	242	236	255	212	210	267	199	175	157
91 Material Service Road, Des Plaines River	185	284	225	242	249	212	200	251	198	202	ND
110 Springinguth Road, West Branch DuPage River	254	340	267	466	355	310	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-54: TURBIDITY MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (NTU)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	25.5	81.0	ND
106 Dundee Road, West Fork North Branch Chicago River	26.9	31.4	29.0	66.6	30.1	49.5	32.2	19.2	24.6	ND	ND
103 Golf Road, West Fork North Branch Chicago River	24.1	18.4	14.1	32.2	25.6	20.1	16.9	20.7	18.5	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	18.3	18.3	14.9	46.2	16.7	22.8	13.1	16.6	22.3	16.8	19.7
104 Glenview Road, North Branch Chicago River	15.0	16.9	13.7	32.9	15.2	18.2	14.7	15.3	14.1	ND	ND
32 Lake-Cook Road, Skokie River	16.2	18.5	14.6	37.0	16.8	19.8	12.6	13.4	15.6	13.0	17.6
105 Frontage Road, Skokie River	14.8	13.1	15.6	16.5	13.4	16.7	12.0	12.5	12.9	ND	ND
34 Dempster Street, North Branch Chicago River	17.0	17.8	15.3	28.9	18.9	19.1	14.5	18.0	18.1	18.5	20.2
96 Albany Avenue, North Branch Chicago River	17.4	20.2	14.6	23.5	16.0	18.3	14.1	14.5	13.3	11.0	ND
35 Central Street, North Shore Channel	8.1	9.7	5.1	9.3	5.9	7.3	8.2	10.6	10.3	11.8	9.1
102 Oakton Street, North Shore Channel	7.9	15.0	10.3	13.2	12.2	11.3	11.6	14.1	14.4	ND	ND
36 Touhy Avenue, North Shore Channel	5.1	4.8	4.2	5.8	6.5	7.6	7.1	8.1	6.7	8.1	7.5
101 Foster Avenue, North Shore Channel	4.4	5.4	5.1	5.9	7.0	7.5	8.0	9.5	8.7	ND	ND
37 Wilson Avenue, North Branch Chicago River	11.4	8.2	8.2	9.3	9.5	10.5	9.2	11.3	11.4	9.7	10.1
73 Diversey Parkway, North Branch Chicago River	10.6	10.3	8.8	10.4	10.0	11.4	9.5	12.4	11.8	10.1	11.7
46 Grand Avenue, North Branch Chicago River	12.6	10.0	13.2	13.4	11.3	14.9	10.2	13.2	12.0	12.6	12.7
74 Lake Shore Drive, Chicago River	3.8	4.6	3.5	2.8	3.3	3.4	5.5	6.0	5.9	8.3	7.0
100 Wells Street, Chicago River	4.1	7.4	4.0	3.5	4.7	4.7	7.0	6.8	7.9	ND	ND
39 Madison Street, South Branch Chicago River	9.7	10.8	10.7	8.0	9.1	11.1	9.8	11.6	12.5	10.5	11.2
108 Loomis Street, South Branch Chicago River	9.7	11.6	10.1	11.3	9.6	10.7	9.1	10.0	12.6	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	8.4	10.8	7.4	8.8	8.7	9.9	9.3	10.4	12.5	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	11.1	10.3	11.8	11.4	10.4	11.5	10.3	ND	ND	12.7	11.2
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	11.0	12.9	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	11.5	10.7	8.6	13.1	11.6	13.7	10.5	10.6	13.6	12.8	13.8
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.1	6.0	6.0	6.9	6.4	6.9	7.2	8.3	8.5	9.3	9.7
42 Route 83, Chicago Sanitary & Ship Canal	5.5	8.3	6.9	5.4	5.8	6.6	8.0	8.6	8.0	8.2	7.8
48 Stephen Street, Chicago Sanitary & Ship Canal	11.0	13.9	10.2	11.6	11.5	11.4	9.9	9.9	10.4	11.1	9.4
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	11.1	14.4	9.0	11.2	10.6	10.6	9.5	10.0	11.4	11.5	ND
Calumet River System											
49 Ewing Avenue, Calumet River	3.6	4.2	4.0	7.2	5.6	7.7	6.9	7.5	9.8	10.6	9.8
50 Burnham Avenue, Wolf Lake	3.5	4.2	3.8	2.9	5.3	3.8	5.3	5.2	6.6	6.4	5.8
55 130th Street, Calumet River	4.3	6.0	6.3	6.3	5.9	6.4	7.8	9.4	10.8	13.5	8.0
86 Burnham Avenue, Grand Calumet River	6.0	11.9	10.3	12.8	25.3	11.5	9.4	9.3	10.0	12.5	11.1
56 Indiana Avenue, Little Calumet River	18.2	25.2	20.3	19.6	24.8	19.6	16.8	18.9	17.9	15.8	14.7
76 Halsted Street, Little Calumet River	8.9	11.5	8.4	9.3	10.2	11.1	8.4	10.3	11.1	10.3	8.8
52 Wentworth Avenue, Little Calumet River	38.2	17.7	31.2	33.6	32.2	30.9	16.1	22.6	24.7	33.0	30.1
54 Joe Orr Road, Thorn Creek	15.8	5.8	9.8	5.8	63.6	17.8	29.4	8.0	10.3	22.0	10.4
97 170th Street, Thorn Creek	21.5	16.3	25.4	26.5	46.2	29.2	19.8	14.9	27.6	ND	ND
57 Ashland Avenue, Little Calumet River	25.9	16.0	28.2	24.3	42.5	27.5	20.1	16.6	26.2	21.3	22.5
58 Ashland Avenue, Calumet-Sag Channel	12.9	13.6	16.6	11.5	13.4	14.7	14.5	12.0	14.8	13.3	13.8
59 Cicero Avenue, Calumet-Sag Channel	12.9	14.9	18.8	14.3	14.2	17.8	14.3	14.6	15.2	13.3	14.8
43 Route 83, Calumet-Sag Channel	13.6	12.8	14.5	18.6	14.2	15.7	20.7	16.2	22.0	18.5	15.4
Des Plaines River System											
90 Route 19, Poplar Creek	10.4	14.1	7.9	20.3	14.7	10.0	17.1	11.9	13.2	18.6	16.2
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	22.6	ND	20.3	21.8	17.7
89 Walnut Lane, West Branch DuPage River	5.5	13.5	7.5	7.4	7.6	8.3	10.2	7.5	9.0	13.5	12.4
64 Lake Street, West Branch DuPage River	17.7	22.9	19.2	25.4	26.3	22.5	19.0	18.6	21.3	27.6	22.0
79 Higgins Road, Salt Creek	21.1	23.8	25.1	30.4	42.9	23.2	30.3	24.6	22.5	29.4	23.7
80 Arlington Heights Road, Salt Creek	12.5	5.8	9.1	9.8	6.5	5.7	8.1	6.9	9.8	10.8	11.2
18 Devon Avenue, Salt Creek	12.4	7.5	10.1	11.1	10.1	11.6	9.6	9.2	11.8	15.6	15.7
24 Wolf Road, Salt Creek	17.0	19.4	24.0	28.7	20.1	16.2	22.6	13.8	17.2	22.6	20.7
109 Brookfield Avenue, Salt Creek	18.9	18.9	21.1	32.5	23.3	17.0	27.8	13.0	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	12.9	18.1	23.0	22.0
77 Elmhurst Road, Higgins Creek	18.9	44.3	23.9	32.5	29.3	29.5	23.0	22.2	18.8	27.7	22.1
78 Wille Road, Higgins Creek	4.0	7.1	4.5	4.8	3.9	5.1	7.1	6.9	7.3	7.2	5.4
12 Lake-Cook Road, Buffalo Creek	21.4	20.4	26.7	25.6	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	20.9	17.0	16.5	20.7	19.4	18.5	18.7	15.8	16.9	23.9	22.0
17 Oakton Street, Des Plaines River	21.5	20.0	16.9	19.5	15.1	18.4	21.7	15.6	18.4	27.5	24.5
19 Belmont Avenue, Des Plaines River	21.6	25.6	18.6	20.7	17.6	17.1	20.8	17.1	16.7	20.4	19.3
20 Roosevelt Road, Des Plaines River	22.7	22.0	19.0	21.3	17.5	16.8	21.3	16.1	16.9	22.3	19.8
22 Ogden Avenue, Des Plaines River	23.8	20.6	21.7	28.3	23.8	16.3	24.2	15.0	17.3	23.6	19.7
23 Willow Springs Road, Des Plaines River	23.7	21.5	21.2	26.3	20.9	19.1	19.6	15.8	22.9	26.0	22.5
29 Stephen Street, Des Plaines River	24.8	18.5	18.0	26.2	23.0	20.2	20.9	15.9	26.0	26.6	24.4
91 Material Service Road, Des Plaines River	22.0	17.6	21.7	22.1	25.8	20.5	22.4	16.9	24.7	24.5	ND
110 Springinguth Road, West Branch DuPage River	25.1	22.2	16.2	19.1	25.2	32.9	ND	ND	ND	ND	ND

ND = No Data.

**TABLE AII-55: ELECTRICAL CONDUCTIVITY MEAN HISTORY
1999 THROUGH 2009**

Sampling Station (No. Name)	Annual Means (μ mhos)										
	09	08	07	06	05	04	03	02	01	00	99
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	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	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
74 Lake Shore Drive, Chicago River	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
39 Madison Street, South Branch Chicago River	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
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	ND	ND	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	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	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
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	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	1235	935
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	ND	ND	ND
50 Burnham Avenue, Wolf Lake	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
86 Burnham Avenue, Grand Calumet River	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
76 Halsted Street, Little Calumet River	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
54 Joe Orr Road, Thorn Creek	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
57 Ashland Avenue, Little Calumet River	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
59 Cicero Avenue, Calumet-Sag Channel	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
Des Plaines River System											
90 Route 19, Poplar Creek	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
89 Walnut Lane, West Branch DuPage River	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
79 Higgins Road, Salt Creek	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
18 Devon Avenue, Salt Creek	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
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	ND	ND	ND
77 Elmhurst Road, Higgins Creek	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
12 Lake-Cook Road, Buffalo Creek	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
17 Oakton Street, Des Plaines River	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
20 Roosevelt Road, Des Plaines River	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
23 Willow Springs Road, Des Plaines River	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
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110 Springinsguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data.

**TABLE AII-56: TOTAL KJELDAHL NITROGEN MEAN HISTORY
1999 THROUGH 2009**

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	1.32	2.18	ND
106 Dundee Road, West Fork North Branch Chicago River	1.40	1.59	1.30	1.90	1.31	1.58	1.88	1.52	2.16	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.10	1.05	1.34	1.36	1.41	1.04	1.25	2.01	1.50	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.94	1.16	1.20	1.09	1.36	1.05	1.24	1.26	1.34	1.67	1.13
104 Glenview Road, North Branch Chicago River	0.99	1.14	1.27	1.54	1.22	0.99	1.33	1.21	1.43	ND	ND
32 Lake-Cook Road, Skokie River	0.88	0.86	1.08	1.29	1.67	1.08	0.97	1.18	1.17	1.09	1.02
105 Frontage Road, Skokie River	1.01	1.06	1.31	1.32	1.25	0.96	1.16	1.26	1.36	ND	ND
34 Dempster Street, North Branch Chicago River	1.08	1.14	1.23	1.43	1.22	1.04	1.12	1.58	1.71	1.45	1.21
96 Albany Avenue, North Branch Chicago River	0.86	1.03	1.16	1.27	1.31	0.94	1.17	1.40	1.96	1.60	ND
35 Central Street, North Shore Channel	0.45	0.43	0.58	0.57	0.39	0.54	0.84	1.02	0.63	1.05	1.27
102 Oakton Street, North Shore Channel	0.85	1.08	1.27	1.41	1.54	1.45	1.91	1.81	1.10	ND	ND
36 Touhy Avenue, North Shore Channel	1.38	1.59	2.07	1.99	3.08	2.35	2.75	2.60	2.66	2.65	2.48
101 Foster Avenue, North Shore Channel	1.37	1.82	2.39	2.07	3.53	3.31	3.02	2.98	2.70	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.32	1.60	1.92	1.97	3.19	3.07	2.63	2.60	2.66	3.10	3.34
73 Diversey Parkway, North Branch Chicago River	1.19	1.36	1.79	1.71	2.25	2.20	2.39	2.33	2.43	2.52	2.20
46 Grand Avenue, North Branch Chicago River	1.49	1.56	1.94	1.85	2.82	2.26	2.16	2.51	2.34	2.40	2.18
74 Lake Shore Drive, Chicago River	0.26	0.43	0.55	0.48	0.73	0.66	0.73	0.67	1.01	1.10	0.63
100 Wells Street, Chicago River	0.54	0.88	0.85	0.87	1.15	1.25	1.59	1.10	1.08	ND	ND
39 Madison Street, South Branch Chicago River	1.12	1.33	1.44	1.46	2.32	1.93	2.35	2.46	1.94	2.36	1.75
108 Loomis Street, South Branch Chicago River	1.11	1.36	1.47	1.71	2.33	2.00	1.69	2.03	1.60	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	1.66	1.97	1.57	1.49	2.46	2.07	2.07	2.62	3.35	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	1.27	1.41	1.45	1.64	2.31	1.99	1.97	ND	ND	2.31	1.80
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	2.20	2.02	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.12	1.55	1.47	1.70	2.10	1.80	1.96	2.15	1.92	1.99	1.64
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.41	1.49	1.75	1.55	1.93	1.20	1.51	1.68	1.91	1.72	1.43
42 Route 83, Chicago Sanitary & Ship Canal	1.33	1.48	1.79	1.61	1.81	1.45	1.62	1.97	1.94	1.65	1.70
48 Stephen Street, Chicago Sanitary & Ship Canal	1.27	1.33	1.56	1.74	1.76	1.32	1.57	1.91	1.87	1.93	1.71
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.96	1.77
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.29	1.40	1.55	1.61	1.67	1.38	1.58	1.66	1.86	1.83	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.18	0.19	0.34	0.38	0.25	0.18	0.23	0.35	0.41	0.51	0.59
50 Burnham Avenue, Wolf Lake	0.77	0.71	0.85	0.74	0.73	0.57	0.52	0.49	0.62	0.73	0.47
55 130th Street, Calumet River	0.53	0.63	0.77	0.76	0.70	0.45	0.58	0.71	0.85	0.66	0.69
86 Burnham Avenue, Grand Calumet River	2.31	5.15	4.57	3.19	4.31	2.65	3.85	2.89	2.58	4.32	3.34
56 Indiana Avenue, Little Calumet River	0.99	1.00	1.13	1.09	0.84	0.88	1.02	1.02	1.05	1.01	1.10
76 Halsted Street, Little Calumet River	1.22	1.42	1.34	1.35	1.26	1.00	1.16	1.39	1.58	1.50	1.38
52 Wentworth Avenue, Little Calumet River	1.34	1.28	1.51	1.64	1.61	1.45	1.58	1.58	1.73	2.03	2.39
54 Joe Orr Road, Thorn Creek	1.39	1.39	1.50	1.42	1.55	1.27	1.19	1.47	1.53	1.92	1.43
97 170th Street, Thorn Creek	1.18	1.11	1.43	1.28	1.34	1.11	1.28	1.46	1.58	ND	ND
57 Ashland Avenue, Little Calumet River	1.03	1.10	1.39	1.43	1.58	1.15	1.23	1.42	1.60	1.46	1.44
58 Ashland Avenue, Calumet-Sag Channel	1.09	1.32	1.40	1.47	1.30	1.03	1.22	1.35	1.55	1.50	1.37
59 Cicero Avenue, Calumet-Sag Channel	1.17	1.31	1.28	1.50	1.41	1.19	1.26	1.49	1.67	2.22	1.46
43 Route 83, Calumet-Sag Channel	1.20	1.24	1.41	1.37	1.25	1.15	1.32	1.50	1.94	1.45	1.42
Des Plaines River System											
90 Route 19, Poplar Creek	0.81	0.86	0.99	1.13	0.94	0.68	1.03	0.87	1.03	1.31	1.78
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	1.93	ND	1.88	1.66	1.81
89 Walnut Lane, West Branch DuPage River	1.53	1.60	1.85	1.72	1.93	1.56	2.28	1.83	2.30	2.37	2.64
64 Lake Street, West Branch DuPage River	1.55	1.68	2.01	1.84	2.09	1.93	2.37	2.05	2.53	2.70	2.25
79 Higgins Road, Salt Creek	1.22	1.19	1.51	1.45	1.41	1.07	1.47	1.60	1.49	1.82	1.17
80 Arlington Heights Road, Salt Creek	1.19	1.04	1.24	1.37	1.16	1.27	1.84	1.83	1.64	1.74	1.46
18 Devon Avenue, Salt Creek	1.11	0.96	1.12	1.38	1.42	1.35	1.86	1.87	1.74	1.73	1.47
24 Wolf Road, Salt Creek	1.09	1.07	1.19	1.38	1.25	0.91	1.48	1.44	1.52	1.61	1.23
109 Brookfield Avenue, Salt Creek	1.11	1.08	1.18	1.53	1.23	0.88	1.48	1.41	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	1.56	1.39	1.62	1.42
77 Elmhurst Road, Higgins Creek	0.93	0.96	0.96	1.38	1.29	0.74	1.40	1.31	1.34	1.41	1.29
78 Wille Road, Higgins Creek	1.22	1.59	1.60	1.84	1.51	1.45	1.49	1.65	1.85	2.35	1.74
12 Lake-Cook Road, Buffalo Creek	1.12	1.10	1.37	1.21	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.10	1.09	1.38	1.40	1.34	0.98	1.51	1.78	1.48	1.82	1.22
17 Oakton Street, Des Plaines River	1.16	1.19	1.27	1.39	1.31	1.02	1.54	1.52	1.55	1.58	1.18
19 Belmont Avenue, Des Plaines River	1.07	1.27	1.45	1.46	1.28	0.96	1.66	1.42	1.66	2.27	1.13
20 Roosevelt Road, Des Plaines River	1.11	1.17	1.28	1.37	1.20	1.03	1.65	1.35	1.56	1.57	1.14
22 Ogden Avenue, Des Plaines River	1.11	1.23	1.27	1.45	1.25	0.92	2.00	1.36	1.60	1.49	1.11
23 Willow Springs Road, Des Plaines River	1.19	1.10	1.22	1.50	1.23	0.99	1.26	1.57	1.69	1.67	1.08
29 Stephen Street, Des Plaines River	1.01	1.06	1.26	1.42	1.29	1.02	1.52	1.50	1.87	1.35	1.15
91 Material Service Road, Des Plaines River	1.08	1.11	1.20	1.49	1.29	1.02	1.62	1.49	1.63	1.63	ND
110 Springinguth Road, West Branch DuPage River	2.28	2.10	2.04	2.35	2.49	2.35	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-57: AMMONIUM NITROGEN MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.300	0.470	ND
106 Dundee Road, West Fork North Branch Chicago River	0.475	0.487	0.323	0.714	0.228	0.565	0.327	0.145	0.445	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.251	0.200	0.221	0.251	0.265	0.232	0.215	0.797	0.277	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.094	0.181	0.145	0.119	0.190	0.205	0.178	0.124	0.139	0.169	0.038
104 Glenview Road, North Branch Chicago River	0.126	0.171	0.175	0.198	0.144	0.223	0.113	0.086	0.103	ND	ND
32 Lake-Cook Road, Skokie River	0.109	0.126	0.198	0.213	0.320	0.166	0.221	0.110	0.190	0.187	0.077
105 Frontage Road, Skokie River	0.108	0.121	0.121	0.114	0.152	0.166	0.103	0.058	0.100	ND	ND
34 Dempster Street, North Branch Chicago River	0.170	0.185	0.164	0.201	0.154	0.191	0.167	0.361	0.336	0.158	0.039
96 Albany Avenue, North Branch Chicago River	0.097	0.149	0.110	0.108	0.153	0.158	0.153	0.241	0.477	0.413	ND
35 Central Street, North Shore Channel	0.164	0.114	0.166	0.139	0.071	0.310	0.331	0.313	0.183	0.301	0.348
102 Oakton Street, North Shore Channel	0.303	0.347	0.521	0.553	0.773	0.885	0.930	0.696	0.376	ND	ND
36 Touhy Avenue, North Shore Channel	0.396	0.584	0.837	0.685	1.718	1.348	1.548	0.987	1.063	1.273	0.921
101 Foster Avenue, North Shore Channel	0.485	0.758	1.210	0.876	2.104	2.176	1.828	1.428	1.185	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.433	0.574	0.879	0.770	1.881	2.005	1.365	1.153	1.083	1.653	1.772
73 Diversey Parkway, North Branch Chicago River	0.312	0.427	0.698	0.643	1.091	1.276	1.197	0.959	0.863	1.227	0.883
46 Grand Avenue, North Branch Chicago River	0.519	0.613	0.710	0.638	1.617	1.415	1.216	1.171	0.968	1.201	0.954
74 Lake Shore Drive, Chicago River	0.092	0.088	0.185	0.105	0.400	0.339	0.348	0.238	0.413	0.372	0.215
100 Wells Street, Chicago River	0.175	0.297	0.297	0.229	0.583	0.686	0.798	0.500	0.462	ND	ND
39 Madison Street, South Branch Chicago River	0.450	0.491	0.574	0.541	1.361	1.197	1.270	1.142	0.879	0.906	0.822
108 Loomis Street, South Branch Chicago River	0.413	0.522	0.513	0.730	1.360	1.251	0.819	0.988	0.587	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.715	0.771	0.637	0.620	1.320	1.136	1.062	1.123	1.715	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.484	0.580	0.563	0.618	1.277	1.185	0.969	ND	ND	1.116	0.847
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.968	0.878	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.436	0.660	0.590	0.617	1.175	1.107	0.941	0.869	0.769	0.843	0.793
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.583	0.505	0.556	0.364	0.941	0.508	0.499	0.534	0.754	0.438	0.357
42 Route 83, Chicago Sanitary & Ship Canal	0.497	0.573	0.687	0.482	0.816	0.649	0.643	0.655	0.756	0.630	0.604
48 Stephen Street, Chicago Sanitary & Ship Canal	0.441	0.465	0.478	0.544	0.797	0.564	0.598	0.718	0.721	0.692	0.601
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.619	0.449
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.418	0.471	0.516	0.479	0.654	0.635	0.588	0.502	0.654	0.595	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.016	0.023	0.087	0.057	0.109	0.114	0.124	0.063	0.108	0.113	0.056
50 Burnham Avenue, Wolf Lake	0.093	0.102	0.132	0.098	0.183	0.203	0.118	0.018	0.087	0.092	0.056
55 130th Street, Calumet River	0.106	0.162	0.161	0.180	0.235	0.240	0.249	0.098	0.214	0.195	0.124
86 Burnham Avenue, Grand Calumet River	1.014	2.198	2.218	1.434	1.659	1.399	1.735	0.952	0.934	1.586	1.059
56 Indiana Avenue, Little Calumet River	0.324	0.261	0.306	0.193	0.199	0.256	0.317	0.115	0.127	0.307	0.276
76 Halsted Street, Little Calumet River	0.323	0.343	0.295	0.259	0.284	0.298	0.268	0.188	0.355	0.332	0.332
52 Wentworth Avenue, Little Calumet River	0.364	0.262	0.290	0.178	0.365	0.360	0.319	0.230	0.274	0.278	0.297
54 Joe Orr Road, Thorn Creek	0.252	0.227	0.295	0.153	0.240	0.324	0.127	0.116	0.110	0.380	0.057
97 170th Street, Thorn Creek	0.134	0.182	0.191	0.135	0.315	0.304	0.248	0.253	0.275	ND	ND
57 Ashland Avenue, Little Calumet River	0.191	0.203	0.232	0.154	0.355	0.379	0.330	0.182	0.248	0.295	0.232
58 Ashland Avenue, Calumet-Sag Channel	0.301	0.354	0.301	0.302	0.320	0.298	0.294	0.186	0.415	0.374	0.346
59 Cicero Avenue, Calumet-Sag Channel	0.258	0.389	0.263	0.278	0.360	0.356	0.256	0.252	0.448	0.490	0.406
43 Route 83, Calumet-Sag Channel	0.314	0.335	0.310	0.261	0.321	0.438	0.260	0.317	0.513	0.336	0.375
Des Plaines River System											
90 Route 19, Poplar Creek	0.052	0.062	0.094	0.113	0.108	0.107	0.149	0.034	0.105	0.106	0.067
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.240	ND	0.305	0.154	0.131
89 Walnut Lane, West Branch DuPage River	0.081	0.152	0.242	0.122	0.273	0.332	0.482	0.117	0.294	0.341	0.367
64 Lake Street, West Branch DuPage River	0.153	0.249	0.340	0.252	0.482	0.552	0.596	0.287	0.460	0.645	0.421
79 Higgins Road, Salt Creek	0.063	0.039	0.129	0.111	0.100	0.140	0.214	0.090	0.106	0.172	0.067
80 Arlington Heights Road, Salt Creek	0.028	0.055	0.107	0.114	0.157	0.382	0.465	0.299	0.192	0.145	0.090
18 Devon Avenue, Salt Creek	0.045	0.046	0.112	0.124	0.193	0.313	0.501	0.360	0.228	0.161	0.093
24 Wolf Road, Salt Creek	0.117	0.160	0.162	0.153	0.163	0.195	0.241	0.218	0.171	0.196	0.127
109 Brookfield Avenue, Salt Creek	0.116	0.196	0.174	0.154	0.166	0.186	0.211	0.178	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.347	0.160	0.192	0.105
77 Elmhurst Road, Higgins Creek	0.135	0.214	0.172	0.199	0.123	0.180	0.240	0.107	0.187	0.134	0.116
78 Wille Road, Higgins Creek	0.268	0.373	0.353	0.405	0.269	0.437	0.331	0.211	0.250	0.396	0.245
12 Lake-Cook Road, Buffalo Creek	0.060	0.083	0.110	0.117	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.097	0.068	0.103	0.086	0.190	0.179	0.162	0.091	0.104	0.143	0.108
17 Oakton Street, Des Plaines River	0.071	0.061	0.099	0.115	0.145	0.192	0.150	0.071	0.093	0.107	0.075
19 Belmont Avenue, Des Plaines River	0.086	0.107	0.117	0.124	0.143	0.273	0.198	0.118	0.157	0.177	0.116
20 Roosevelt Road, Des Plaines River	0.057	0.098	0.088	0.107	0.143	0.188	0.166	0.097	0.140	0.145	0.093
22 Ogden Avenue, Des Plaines River	0.079	0.073	0.130	0.122	0.161	0.134	0.144	0.107	0.127	0.150	0.089
23 Willow Springs Road, Des Plaines River	0.113	0.059	0.131	0.147	0.124	0.155	0.162	0.072	0.134	0.160	0.089
29 Stephen Street, Des Plaines River	0.054	0.064	0.105	0.133	0.111	0.109	0.166	0.100	0.121	0.146	0.077
91 Material Service Road, Des Plaines River	0.080	0.047	0.085	0.137	0.122	0.119	0.161	0.057	0.115	0.140	ND
110 Springinguth Road, West Branch DuPage River	0.563	0.616	0.344	0.555	0.454	0.541	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-58: UN-IONIZED AMMONIA MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.004	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.005	0.002	0.002	0.002	0.006	0.006	0.001	0.007	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.002	0.002	0.002	0.002	0.003	0.005	0.003	0.008	0.007	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.003	0.003	0.001	0.002	0.002	0.003	0.001	0.002	0.006	0.001
104 Glenview Road, North Branch Chicago River	0.002	0.003	0.004	0.003	0.002	0.002	0.003	0.001	0.003	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.002	0.005	0.003	0.011	0.002	0.003	0.001	0.003	0.007	0.002
105 Frontage Road, Skokie River	0.001	0.002	0.002	0.003	0.001	0.002	0.001	0.001	0.004	ND	ND
34 Dempster Street, North Branch Chicago River	0.002	0.002	0.002	0.005	0.002	0.003	0.002	0.003	0.003	0.005	0.001
96 Albany Avenue, North Branch Chicago River	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.004	0.007	0.004	ND
35 Central Street, North Shore Channel	0.001	0.002	0.002	0.002	0.002	0.009	0.003	0.008	0.004	0.020	0.008
102 Oakton Street, North Shore Channel	0.003	0.004	0.005	0.004	0.005	0.011	0.007	0.006	0.003	ND	ND
36 Touhy Avenue, North Shore Channel	0.002	0.004	0.007	0.005	0.012	0.010	0.009	0.013	0.007	0.051	0.021
101 Foster Avenue, North Shore Channel	0.004	0.004	0.009	0.005	0.019	0.011	0.007	0.011	0.006	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.004	0.004	0.008	0.007	0.021	0.035	0.017	0.010	0.011	0.058	0.033
73 Diversey Parkway, North Branch Chicago River	0.002	0.004	0.004	0.016	0.009	0.012	0.008	0.007	0.003	0.037	0.015
46 Grand Avenue, North Branch Chicago River	0.005	0.005	0.007	0.005	0.012	0.017	0.010	0.011	0.004	0.017	0.023
74 Lake Shore Drive, Chicago River	0.001	0.001	0.002	0.002	0.004	0.005	0.002	0.002	0.008	0.005	0.005
100 Wells Street, Chicago River	0.002	0.003	0.004	0.003	0.005	0.006	0.004	0.003	0.010	ND	ND
39 Madison Street, South Branch Chicago River	0.003	0.004	0.008	0.007	0.014	0.007	0.006	0.007	0.008	0.011	0.051
108 Loomis Street, South Branch Chicago River	0.004	0.008	0.006	0.009	0.017	0.012	0.007	0.014	0.004	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.004	0.006	0.006	0.006	0.009	0.008	0.008	0.010	0.018	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.005	0.005	0.007	0.007	0.011	0.011	0.007	ND	ND	0.012	0.026
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.009	0.006	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.002	0.004	0.006	0.005	0.023	0.011	0.008	0.019	0.005	0.007	0.031
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.005	0.004	0.002	0.007	0.006	0.003	0.003	0.005	0.006	0.006
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.004	0.004	0.002	0.006	0.006	0.003	0.004	0.004	0.006	0.019
48 Stephen Street, Chicago Sanitary & Ship Canal	0.003	0.011	0.004	0.003	0.003	0.004	0.003	0.005	0.004	0.008	0.015
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	0.004	0.005	0.005	0.005	0.007	0.007	0.006	0.005	0.004	0.008	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.002	0.001	0.001	0.004	0.002	0.002	0.002	0.005	0.003
50 Burnham Avenue, Wolf Lake	0.002	0.012	0.022	0.012	0.003	0.004	0.008	0.001	0.003	0.005	0.003
55 130th Street, Calumet River	0.003	0.003	0.004	0.005	0.004	0.005	0.006	0.004	0.002	0.004	0.005
86 Burnham Avenue, Grand Calumet River	0.007	0.020	0.044	0.012	0.015	0.016	0.048	0.024	0.009	0.048	0.028
56 Indiana Avenue, Little Calumet River	0.005	0.002	0.005	0.008	0.001	0.003	0.004	0.002	0.004	0.024	0.012
76 Halsted Street, Little Calumet River	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.005	0.009
52 Wentworth Avenue, Little Calumet River	0.011	0.005	0.006	0.004	0.002	0.004	0.005	0.003	0.003	0.011	0.007
54 Joe Orr Road, Thorn Creek	0.001	0.001	0.003	0.003	0.001	0.002	0.001	0.001	0.001	0.006	0.005
97 170th Street, Thorn Creek	0.003	0.005	0.003	0.003	0.001	0.003	0.003	0.004	0.002	ND	ND
57 Ashland Avenue, Little Calumet River	0.004	0.009	0.003	0.004	0.002	0.009	0.004	0.002	0.002	0.003	0.012
58 Ashland Avenue, Calumet-Sag Channel	0.003	0.003	0.004	0.002	0.001	0.002	0.003	0.002	0.003	0.004	0.012
59 Cicero Avenue, Calumet-Sag Channel	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.001	0.006	0.003	0.015
43 Route 83, Calumet-Sag Channel	0.003	0.005	0.004	0.004	0.002	0.006	0.004	0.001	0.009	0.003	0.030
Des Plaines River System											
90 Route 19, Poplar Creek	0.002	0.001	0.003	0.003	0.002	0.002	0.002	0.001	0.001	0.007	0.004
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.003	ND	0.002	0.011	0.003
89 Walnut Lane, West Branch DuPage River	0.001	0.002	0.003	0.001	0.003	0.003	0.004	0.001	0.004	0.038	0.018
64 Lake Street, West Branch DuPage River	0.001	0.005	0.007	0.003	0.005	0.005	0.005	0.006	0.006	0.148	0.018
79 Higgins Road, Salt Creek	0.001	0.000	0.003	0.004	0.002	0.001	0.002	0.004	0.001	0.024	0.007
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.002	0.001	0.006	0.003	0.004	0.002	0.002	0.024	0.003
18 Devon Avenue, Salt Creek	0.000	0.000	0.002	0.002	0.006	0.002	0.005	0.002	0.011	0.029	0.003
24 Wolf Road, Salt Creek	0.001	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.003	0.004	0.012
109 Brookfield Avenue, Salt Creek	0.001	0.002	0.003	0.002	0.002	0.002	0.002	0.000	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.001	0.002	0.002	0.013
77 Elmhurst Road, Higgins Creek	0.003	0.005	0.004	0.002	0.003	0.003	0.003	0.001	0.004	0.004	0.016
78 Wille Road, Higgins Creek	0.004	0.006	0.006	0.005	0.003	0.007	0.005	0.001	0.005	0.006	0.022
12 Lake-Cook Road, Buffalo Creek	0.000	0.002	0.002	0.003	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.002	0.003	0.002	0.001	0.003	0.004	0.002	0.002	0.002	0.014	0.007
17 Oakton Street, Des Plaines River	0.002	0.001	0.002	0.002	0.002	0.003	0.003	0.001	0.002	0.002	0.016
19 Belmont Avenue, Des Plaines River	0.001	0.003	0.003	0.002	0.002	0.004	0.004	0.001	0.003	0.002	0.017
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.002	0.003	0.001	0.004	0.004	0.001	0.002	0.004	0.014
22 Ogden Avenue, Des Plaines River	0.001	0.001	0.004	0.002	0.002	0.002	0.001	0.001	0.002	0.001	0.011
23 Willow Springs Road, Des Plaines River	0.010	0.001	0.003	0.003	0.002	0.003	0.003	0.001	0.002	0.004	0.010
29 Stephen Street, Des Plaines River	0.004	0.001	0.002	0.002	0.002	0.001	0.003	0.002	0.002	0.005	0.010
91 Material Service Road, Des Plaines River	0.001	0.001	0.002	0.004	0.003	0.002	0.003	0.002	0.003	0.003	ND
110 Springinguth Road, West Branch DuPage River	0.006	0.005	0.007	0.007	0.005	0.006	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-59: ORGANIC NITROGEN MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	1.02	1.71	ND
106 Dundee Road, West Fork North Branch Chicago River	0.92	1.11	0.98	1.19	1.08	1.01	1.56	1.38	1.71	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.85	0.85	1.12	1.11	1.15	0.81	1.04	1.21	1.22	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.84	0.98	1.06	0.97	1.17	0.85	1.06	1.14	1.20	1.50	1.09
104 Glenview Road, North Branch Chicago River	0.86	0.97	1.10	1.34	1.07	0.77	1.22	1.12	1.33	ND	ND
32 Lake-Cook Road, Skokie River	0.77	0.73	0.88	1.08	1.35	0.91	0.75	1.07	0.98	0.91	0.95
105 Frontage Road, Skokie River	0.90	0.94	1.19	1.20	1.10	0.80	1.05	1.20	1.26	ND	ND
34 Dempster Street, North Branch Chicago River	0.91	0.96	1.07	1.23	1.06	0.85	0.95	1.22	1.38	1.29	1.17
96 Albany Avenue, North Branch Chicago River	0.76	0.88	1.05	1.16	1.16	0.78	1.01	1.15	1.48	1.19	ND
35 Central Street, North Shore Channel	0.28	0.34	0.41	0.44	0.32	0.24	0.51	0.71	0.44	0.75	0.92
102 Oakton Street, North Shore Channel	0.56	0.74	0.75	0.86	0.77	0.57	0.98	1.11	0.73	ND	ND
36 Touhy Avenue, North Shore Channel	0.98	1.00	1.24	1.32	1.37	1.00	1.21	1.61	1.60	1.37	1.56
101 Foster Avenue, North Shore Channel	0.89	1.06	1.18	1.20	1.43	1.14	1.19	1.55	1.52	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.89	1.03	1.04	1.20	1.31	1.06	1.27	1.45	1.57	1.45	1.56
73 Diversey Parkway, North Branch Chicago River	0.88	0.93	1.09	1.07	1.16	0.92	1.20	1.37	1.57	1.30	1.31
46 Grand Avenue, North Branch Chicago River	0.97	0.95	1.23	1.22	1.20	0.84	0.94	1.34	1.37	1.20	1.23
74 Lake Shore Drive, Chicago River	0.18	0.35	0.37	0.37	0.34	0.31	0.38	0.43	0.59	0.73	0.41
100 Wells Street, Chicago River	0.37	0.58	0.55	0.64	0.57	0.56	0.79	0.60	0.61	ND	ND
39 Madison Street, South Branch Chicago River	0.67	0.84	0.86	0.92	0.95	0.73	1.08	1.32	1.06	1.46	0.93
108 Loomis Street, South Branch Chicago River	0.70	0.84	0.96	0.98	0.97	0.75	0.87	1.04	1.01	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.95	1.20	0.93	0.87	1.14	0.94	1.01	1.50	1.64	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.79	0.83	0.88	1.03	1.03	0.81	1.00	ND	ND	1.20	0.95
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	1.23	1.14	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.68	0.89	0.88	1.08	0.92	0.70	1.02	1.28	1.15	1.14	0.85
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.83	0.98	1.19	1.18	0.99	0.69	1.01	1.15	1.16	1.28	1.07
42 Route 83, Chicago Sanitary & Ship Canal	0.83	0.90	1.11	1.13	0.99	0.80	0.98	1.31	1.18	1.02	1.09
48 Stephen Street, Chicago Sanitary & Ship Canal	0.83	0.86	1.08	1.20	0.96	0.76	0.98	1.19	1.15	1.24	1.11
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	1.33
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.87	0.93	1.04	1.13	1.02	0.75	0.99	1.16	1.21	1.24	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.16	0.16	0.25	0.32	0.15	0.09	0.12	0.29	0.30	0.40	0.57
50 Burnham Avenue, Wolf Lake	0.67	0.61	0.71	0.64	0.55	0.37	0.40	0.47	0.53	0.64	0.46
55 130th Street, Calumet River	0.43	0.47	0.61	0.58	0.47	0.20	0.33	0.61	0.64	0.46	0.56
86 Burnham Avenue, Grand Calumet River	1.29	2.95	2.35	1.76	2.65	1.25	2.12	1.94	1.64	2.73	2.29
56 Indiana Avenue, Little Calumet River	0.67	0.74	0.83	0.90	0.64	0.69	0.69	0.90	0.92	0.70	0.82
76 Halsted Street, Little Calumet River	0.90	1.07	1.04	1.10	0.98	0.70	0.89	1.20	1.23	1.17	1.05
52 Wentworth Avenue, Little Calumet River	0.98	1.01	1.22	1.46	1.25	1.09	1.26	1.35	1.46	1.75	2.09
54 Joe Orr Road, Thorn Creek	1.13	1.16	1.21	1.27	1.31	0.94	1.06	1.36	1.42	1.54	1.37
97 170th Street, Thorn Creek	1.05	0.93	1.24	1.14	1.02	0.81	1.03	1.21	1.30	ND	ND
57 Ashland Avenue, Little Calumet River	0.84	0.90	1.16	1.28	1.23	0.77	0.90	1.24	1.35	1.16	1.21
58 Ashland Avenue, Calumet-Sag Channel	0.79	0.96	1.09	1.17	0.98	0.73	0.93	1.16	1.13	1.12	1.03
59 Cicero Avenue, Calumet-Sag Channel	0.92	0.92	1.02	1.22	1.05	0.83	1.01	1.24	1.22	1.73	1.06
43 Route 83, Calumet-Sag Channel	0.88	0.91	1.10	1.11	0.93	0.72	1.06	1.19	1.43	1.12	1.05
Des Plaines River System											
90 Route 19, Poplar Creek	0.76	0.80	0.90	1.02	0.83	0.57	0.88	0.83	0.92	1.20	1.71
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	1.69	ND	1.58	1.50	1.68
89 Walnut Lane, West Branch DuPage River	1.45	1.45	1.61	1.59	1.66	1.23	1.79	1.71	2.00	2.03	2.27
64 Lake Street, West Branch DuPage River	1.40	1.43	1.67	1.59	1.61	1.37	1.77	1.77	2.07	2.06	1.83
79 Higgins Road, Salt Creek	1.16	1.15	1.38	1.33	1.31	0.93	1.25	1.51	1.38	1.65	1.11
80 Arlington Heights Road, Salt Creek	1.16	0.98	1.13	1.26	1.01	0.88	1.37	1.53	1.45	1.60	1.37
18 Devon Avenue, Salt Creek	1.07	0.91	1.01	1.26	1.22	1.04	1.36	1.51	1.52	1.57	1.38
24 Wolf Road, Salt Creek	0.98	0.91	1.03	1.22	1.09	0.71	1.23	1.23	1.35	1.41	1.10
109 Brookfield Avenue, Salt Creek	1.00	0.89	1.00	1.38	1.07	0.70	1.27	1.23	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	1.22	1.23	1.43	1.32
77 Elmhurst Road, Higgins Creek	0.79	0.75	0.79	1.18	1.17	0.56	1.16	1.20	1.16	1.28	1.17
78 Wille Road, Higgins Creek	0.95	1.22	1.25	1.43	1.24	1.01	1.16	1.44	1.60	1.95	1.50
12 Lake-Cook Road, Buffalo Creek	1.06	1.02	1.26	1.09	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	1.00	1.02	1.27	1.32	1.15	0.80	1.35	1.69	1.38	1.68	1.12
17 Oakton Street, Des Plaines River	1.09	1.13	1.17	1.27	1.16	0.83	1.39	1.45	1.45	1.48	1.11
19 Belmont Avenue, Des Plaines River	0.99	1.16	1.33	1.33	1.13	0.68	1.47	1.30	1.51	2.09	1.01
20 Roosevelt Road, Des Plaines River	1.05	1.08	1.19	1.26	1.06	0.84	1.48	1.25	1.42	1.43	1.04
22 Ogden Avenue, Des Plaines River	1.04	1.15	1.14	1.33	1.09	0.79	1.86	1.26	1.47	1.34	1.02
23 Willow Springs Road, Des Plaines River	1.08	1.04	1.09	1.35	1.11	0.83	1.10	1.50	1.56	1.51	0.99
29 Stephen Street, Des Plaines River	0.96	0.99	1.16	1.28	1.18	0.91	1.35	1.40	1.74	1.20	1.08
91 Material Service Road, Des Plaines River	1.00	1.06	1.12	1.36	1.17	0.90	1.45	1.44	1.51	1.49	ND
110 Springinguth Road, West Branch DuPage River	1.72	1.48	1.70	1.80	2.04	1.81	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-60: NITRITE PLUS NITRATE NITROGEN MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	2.60	7.57	ND
106 Dundee Road, West Fork North Branch Chicago River	6.78	5.90	4.63	3.68	7.14	9.95	5.27	4.00	5.14	ND	ND
103 Golf Road, West Fork North Branch Chicago River	3.04	2.12	3.49	3.11	3.88	2.86	2.97	4.03	3.11	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.23	0.78	0.24	0.42	0.24	0.33	0.35	0.38	0.37	0.35	0.41
104 Glenview Road, North Branch Chicago River	3.95	3.31	4.52	3.92	5.93	4.79	3.81	4.67	3.22	ND	ND
32 Lake-Cook Road, Skokie River	0.35	0.62	0.46	3.15	3.41	0.77	1.07	0.46	0.46	0.52	0.55
105 Frontage Road, Skokie River	5.15	4.03	5.58	5.33	7.00	5.74	6.42	5.83	3.87	ND	ND
34 Dempster Street, North Branch Chicago River	3.43	3.00	3.97	3.74	5.06	4.24	5.10	4.57	2.65	4.51	4.93
96 Albany Avenue, North Branch Chicago River	3.60	2.84	4.07	3.83	4.64	4.75	4.24	4.24	3.05	5.37	ND
35 Central Street, North Shore Channel	0.33	0.28	0.31	0.34	0.23	0.35	1.00	0.34	0.28	0.29	0.32
102 Oakton Street, North Shore Channel	2.73	2.72	3.33	3.81	2.44	2.13	2.25	3.66	1.27	ND	ND
36 Touhy Avenue, North Shore Channel	6.47	6.76	6.53	6.01	5.24	5.37	5.90	5.58	5.57	5.59	5.67
101 Foster Avenue, North Shore Channel	7.44	7.23	7.58	7.19	5.97	5.93	6.72	6.11	6.69	ND	ND
37 Wilson Avenue, North Branch Chicago River	6.93	6.26	7.29	6.94	6.29	6.26	6.50	5.84	5.94	6.17	6.28
73 Diversey Parkway, North Branch Chicago River	6.69	6.47	6.47	6.41	6.04	6.50	6.02	5.29	5.48	5.49	6.23
46 Grand Avenue, North Branch Chicago River	5.79	5.70	6.43	6.22	5.77	5.36	5.86	5.47	4.86	5.63	5.51
74 Lake Shore Drive, Chicago River	0.57	0.93	1.31	1.04	1.07	1.50	1.38	1.38	1.93	1.84	1.08
100 Wells Street, Chicago River	1.94	2.60	2.29	2.15	2.22	2.52	3.41	2.31	2.33	ND	ND
39 Madison Street, South Branch Chicago River	4.58	4.31	4.41	4.03	4.37	4.68	5.19	4.37	3.61	4.28	4.33
108 Loomis Street, South Branch Chicago River	4.71	4.40	4.39	4.30	4.35	4.76	4.40	4.27	3.45	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	3.32	3.63	3.91	3.67	4.05	4.17	4.52	3.55	2.55	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.56	4.22	4.15	4.25	4.22	4.64	4.73	ND	ND	4.42	3.42
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	4.24	3.27	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.95	4.49	4.50	3.84	4.06	4.63	4.49	4.30	3.54	4.30	3.58
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.35	7.25	7.11	7.41	7.67	7.64	7.84	6.81	6.26	7.00	7.01
42 Route 83, Chicago Sanitary & Ship Canal	5.29	6.33	6.08	6.00	5.97	6.93	7.17	6.24	5.61	5.84	5.80
48 Stephen Street, Chicago Sanitary & Ship Canal	4.92	5.64	5.59	5.59	5.51	6.27	6.36	5.77	5.27	5.15	5.10
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.13	4.87
92 Lockport Forebay, Chicago Sanitary & Ship Canal	5.34	5.52	5.45	5.90	6.01	5.74	6.24	5.94	5.31	5.52	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.33	0.39	0.37	0.38	0.37	0.36	0.35	0.50	0.46	0.38	0.36
50 Burnham Avenue, Wolf Lake	0.06	0.09	0.16	0.09	0.13	0.11	0.09	0.10	0.16	0.09	0.78
55 130th Street, Calumet River	0.55	0.65	0.68	0.71	0.60	0.52	0.48	0.57	0.67	0.56	0.53
86 Burnham Avenue, Grand Calumet River	4.45	1.96	1.81	4.68	5.19	5.00	5.91	8.56	9.06	8.48	8.48
56 Indiana Avenue, Little Calumet River	0.86	1.25	1.40	1.86	1.37	1.36	1.78	2.39	1.95	1.86	1.79
76 Halsted Street, Little Calumet River	4.56	5.16	5.17	5.91	5.33	4.79	4.57	5.36	4.80	4.32	4.27
52 Wentworth Avenue, Little Calumet River	3.83	4.85	4.18	4.25	4.27	3.57	4.16	5.39	3.32	4.18	4.53
54 Joe Orr Road, Thorn Creek	9.28	10.15	9.18	9.88	6.39	7.33	7.67	9.86	6.81	7.92	7.68
97 170th Street, Thorn Creek	5.30	6.26	5.49	5.32	5.97	5.67	6.76	7.13	4.04	ND	ND
57 Ashland Avenue, Little Calumet River	3.22	4.22	3.25	4.08	3.67	3.06	4.01	4.35	3.07	4.31	3.71
58 Ashland Avenue, Calumet-Sag Channel	4.02	4.84	4.26	5.66	5.17	4.51	4.57	5.39	4.57	4.22	3.32
59 Cicero Avenue, Calumet-Sag Channel	3.54	5.02	3.92	5.32	5.22	4.58	4.48	5.39	4.26	4.26	3.40
43 Route 83, Calumet-Sag Channel	3.76	4.48	4.69	4.78	5.35	4.38	4.11	4.67	4.25	4.20	3.37
Des Plaines River System											
90 Route 19, Poplar Creek	0.28	0.31	0.29	0.53	0.39	0.34	0.61	0.28	0.49	0.39	0.46
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	1.74	ND	1.32	0.63	2.88
89 Walnut Lane, West Branch DuPage River	10.32	9.38	7.98	8.57	8.85	9.43	7.58	7.13	7.24	6.98	8.01
64 Lake Street, West Branch DuPage River	8.91	9.11	7.34	8.38	8.64	8.83	7.32	6.70	6.79	5.78	6.86
79 Higgins Road, Salt Creek	1.28	0.23	0.23	0.26	0.27	0.25	0.45	0.23	0.28	0.47	0.26
80 Arlington Heights Road, Salt Creek	7.72	8.84	7.10	6.77	7.98	6.01	6.22	7.69	6.92	6.27	7.07
18 Devon Avenue, Salt Creek	7.60	8.69	7.01	6.92	8.19	6.40	6.46	7.32	7.22	6.40	7.31
24 Wolf Road, Salt Creek	6.08	7.06	6.47	6.22	8.12	6.54	6.71	7.66	5.87	5.27	6.67
109 Brookfield Avenue, Salt Creek	5.18	6.20	5.56	5.67	6.98	5.78	5.42	8.16	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	5.10	5.34	4.80	6.35
77 Elmhurst Road, Higgins Creek	0.41	0.54	0.40	0.57	0.44	0.47	0.55	0.41	0.58	0.46	0.34
78 Wille Road, Higgins Creek	8.26	7.98	5.83	5.46	9.44	5.42	4.85	5.67	5.44	4.25	4.99
12 Lake-Cook Road, Buffalo Creek	0.40	0.33	0.31	0.56	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	4.68	5.70	5.26	6.56	7.69	6.53	6.79	6.05	4.94	5.24	5.02
17 Oakton Street, Des Plaines River	3.90	4.52	4.09	5.24	6.43	5.46	4.97	4.84	4.18	3.80	5.32
19 Belmont Avenue, Des Plaines River	4.27	4.59	3.95	4.86	5.93	4.69	4.56	4.62	3.87	3.54	4.54
20 Roosevelt Road, Des Plaines River	3.84	4.47	3.81	4.54	5.49	4.38	4.40	4.50	3.69	3.42	4.26
22 Ogden Avenue, Des Plaines River	4.04	4.80	3.95	4.89	5.79	4.70	5.91	5.21	3.98	3.78	5.02
23 Willow Springs Road, Des Plaines River	3.74	4.88	4.13	4.82	5.69	4.67	4.30	4.93	3.85	3.89	4.77
29 Stephen Street, Des Plaines River	3.66	5.05	4.40	5.08	6.04	4.69	5.03	5.18	3.70	3.91	4.61
91 Material Service Road, Des Plaines River	3.78	4.65	4.28	4.86	6.26	4.39	4.83	4.98	3.68	4.52	ND
110 Springinguth Road, West Branch DuPage River	0.64	0.59	0.62	0.96	0.69	1.22	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-61: TOTAL SOLIDS MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	1941	1948	ND
106 Dundee Road, West Fork North Branch Chicago River	988	1027	1603	900	1050	1300	645	926	941	ND	ND
103 Golf Road, West Fork North Branch Chicago River	861	863	1146	919	1232	776	790	749	741	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	659	809	797	794	888	646	687	693	708	770	693
104 Glenview Road, North Branch Chicago River	695	799	761	704	756	711	733	631	631	ND	ND
32 Lake-Cook Road, Skokie River	637	726	823	709	858	712	682	661	737	828	704
105 Frontage Road, Skokie River	664	775	696	654	696	622	637	606	611	ND	ND
34 Dempster Street, North Branch Chicago River	720	763	850	752	885	808	880	688	754	863	726
96 Albany Avenue, North Branch Chicago River	773	913	854	802	934	684	651	724	674	616	ND
35 Central Street, North Shore Channel	269	328	260	229	244	250	292	321	230	363	299
102 Oakton Street, North Shore Channel	407	441	443	381	423	344	359	416	270	ND	ND
36 Touhy Avenue, North Shore Channel	628	556	646	475	511	511	491	461	542	574	573
101 Foster Avenue, North Shore Channel	600	584	704	491	546	493	469	478	473	ND	ND
37 Wilson Avenue, North Branch Chicago River	630	661	750	527	613	565	561	520	616	654	663
73 Diversey Parkway, North Branch Chicago River	691	703	613	522	570	543	565	514	642	654	655
46 Grand Avenue, North Branch Chicago River	592	706	674	555	597	591	610	503	602	587	596
74 Lake Shore Drive, Chicago River	244	273	365	256	274	300	312	314	403	402	297
100 Wells Street, Chicago River	330	437	409	337	369	382	409	366	378	ND	ND
39 Madison Street, South Branch Chicago River	496	561	548	456	483	464	500	469	565	517	484
108 Loomis Street, South Branch Chicago River	505	549	592	497	476	459	495	476	419	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	491	591	560	425	474	471	484	476	451	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	501	556	616	481	477	487	485	ND	ND	552	486
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	482	488	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	502	604	647	481	495	514	502	498	522	517	478
41 Harlem Avenue, Chicago Sanitary & Ship Canal	579	619	764	529	530	550	531	506	584	619	613
42 Route 83, Chicago Sanitary & Ship Canal	568	628	616	548	578	597	568	557	636	566	608
48 Stephen Street, Chicago Sanitary & Ship Canal	545	640	606	584	591	607	602	580	630	633	581
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	812	634
92 Lockport Forebay, Chicago Sanitary & Ship Canal	604	729	647	584	618	622	610	576	643	680	ND
Calumet River System											
49 Ewing Avenue, Calumet River	234	227	242	245	223	234	241	268	302	282	260
50 Burnham Avenue, Wolf Lake	304	301	295	241	279	275	245	247	265	255	231
55 130th Street, Calumet River	396	405	395	354	300	340	334	341	395	364	342
86 Burnham Avenue, Grand Calumet River	782	794	747	865	665	787	911	874	799	934	913
56 Indiana Avenue, Little Calumet River	440	488	478	428	370	410	405	475	414	489	461
76 Halsted Street, Little Calumet River	579	714	648	590	559	579	547	547	622	697	664
52 Wentworth Avenue, Little Calumet River	611	761	679	700	612	745	828	838	706	835	772
54 Joe Orr Road, Thorn Creek	1267	1600	1417	1490	1293	1530	979	1602	1230	1140	1096
97 170th Street, Thorn Creek	983	1187	1009	1099	1252	1165	1308	1285	861	ND	ND
57 Ashland Avenue, Little Calumet River	743	853	830	877	925	885	951	913	779	965	905
58 Ashland Avenue, Calumet-Sag Channel	574	730	605	638	632	626	609	700	668	753	641
59 Cicero Avenue, Calumet-Sag Channel	577	695	622	683	625	666	633	618	656	775	663
43 Route 83, Calumet-Sag Channel	583	668	628	642	626	630	625	621	674	760	664
Des Plaines River System											
90 Route 19, Poplar Creek	666	829	784	804	766	756	662	711	733	657	672
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	646	ND	888	698	869
89 Walnut Lane, West Branch DuPage River	606	649	647	656	619	650	608	591	645	651	622
64 Lake Street, West Branch DuPage River	664	757	670	683	701	697	632	661	710	658	630
79 Higgins Road, Salt Creek	725	1012	974	804	1075	960	701	746	896	895	734
80 Arlington Heights Road, Salt Creek	721	965	789	788	733	679	668	666	743	749	670
18 Devon Avenue, Salt Creek	674	983	782	806	866	751	714	648	754	771	693
24 Wolf Road, Salt Creek	752	926	814	737	823	762	739	774	783	821	757
109 Brookfield Avenue, Salt Creek	715	887	786	765	809	812	707	565	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	1387	810	806	731
77 Elmhurst Road, Higgins Creek	721	1212	650	1163	1110	1213	908	958	1120	879	858
78 Wille Road, Higgins Creek	788	833	786	712	716	707	672	764	785	733	700
12 Lake-Cook Road, Buffalo Creek	717	952	816	819	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	569	746	664	736	742	699	713	707	676	709	627
17 Oakton Street, Des Plaines River	571	763	657	777	779	689	663	733	711	679	642
19 Belmont Avenue, Des Plaines River	617	844	688	779	783	749	749	758	702	675	637
20 Roosevelt Road, Des Plaines River	608	834	704	771	775	732	648	774	703	681	639
22 Ogden Avenue, Des Plaines River	617	813	720	759	778	732	712	813	743	713	665
23 Willow Springs Road, Des Plaines River	621	828	743	744	773	724	670	732	724	732	673
29 Stephen Street, Des Plaines River	623	851	728	758	772	702	667	754	733	734	671
91 Material Service Road, Des Plaines River	636	827	720	771	805	731	708	788	712	798	ND
110 Springinguth Road, West Branch DuPage River	786	961	902	1173	1077	986	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-62: TOTAL VOLATILE SOLIDS MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	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
74 Lake Shore Drive, Chicago River	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
39 Madison Street, South Branch Chicago River	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
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	ND	ND	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	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	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
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	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	138.9	112.8
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	ND	ND	ND
50 Burnham Avenue, Wolf Lake	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
86 Burnham Avenue, Grand Calumet River	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
76 Halsted Street, Little Calumet River	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
54 Joe Orr Road, Thorn Creek	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
57 Ashland Avenue, Little Calumet River	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
59 Cicero Avenue, Calumet-Sag Channel	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
Des Plaines River System											
90 Route 19, Poplar Creek	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
89 Walnut Lane, West Branch DuPage River	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
79 Higgins Road, Salt Creek	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
18 Devon Avenue, Salt Creek	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
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	ND	ND	ND
77 Elmhurst Road, Higgins Creek	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
12 Lake-Cook Road, Buffalo Creek	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
17 Oakton Street, Des Plaines River	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
20 Roosevelt Road, Des Plaines River	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
23 Willow Springs Road, Des Plaines River	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
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-63: TOTAL SUSPENDED SOLIDS MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	71.0	120.0	ND
106 Dundee Road, West Fork North Branch Chicago River	33.3	61.5	25.5	93.4	31.5	56.1	50.7	39.8	46.8	ND	ND
103 Golf Road, West Fork North Branch Chicago River	28.1	23.3	12.2	34.0	29.7	23.6	25.6	28.5	32.1	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	21.9	33.0	16.4	69.3	24.2	22.0	21.2	30.6	38.8	22.6	24.7
104 Glenview Road, North Branch Chicago River	19.4	28.2	14.2	50.1	18.8	22.8	30.3	25.9	22.8	ND	ND
32 Lake-Cook Road, Skokie River	21.4	26.7	16.4	47.9	21.6	21.0	18.7	18.1	21.8	14.3	24.0
105 Frontage Road, Skokie River	20.9	24.3	18.5	23.8	18.4	25.2	19.4	21.6	22.4	ND	ND
34 Dempster Street, North Branch Chicago River	21.4	27.5	17.2	39.8	25.3	21.8	20.9	30.2	25.8	28.6	29.6
96 Albany Avenue, North Branch Chicago River	22.3	29.7	16.8	28.3	16.8	22.5	20.3	24.4	21.6	15.0	ND
35 Central Street, North Shore Channel	10.3	12.6	5.3	9.4	8.5	11.3	9.9	12.8	9.8	13.6	9.9
102 Oakton Street, North Shore Channel	13.8	16.5	11.8	16.5	11.6	15.2	19.7	20.5	16.6	ND	ND
36 Touhy Avenue, North Shore Channel	8.4	10.4	5.0	11.7	10.9	15.4	9.4	15.3	8.5	10.8	10.3
101 Foster Avenue, North Shore Channel	9.3	14.8	5.7	12.3	12.2	12.7	9.6	15.4	10.4	ND	ND
37 Wilson Avenue, North Branch Chicago River	15.9	19.0	8.3	14.3	15.0	13.9	12.3	18.5	16.8	15.0	13.0
73 Diversey Parkway, North Branch Chicago River	14.4	15.7	10.6	15.3	13.2	15.1	14.1	19.3	17.9	15.3	16.5
46 Grand Avenue, North Branch Chicago River	16.9	16.0	16.3	17.3	14.5	21.3	13.5	18.3	17.6	15.2	17.2
74 Lake Shore Drive, Chicago River	4.7	5.8	5.6	7.1	5.3	4.9	2.5	4.0	4.8	12.8	6.0
100 Wells Street, Chicago River	5.7	9.0	4.7	9.0	4.5	6.3	6.4	6.3	10.0	ND	ND
39 Madison Street, South Branch Chicago River	12.6	13.8	18.3	14.5	8.7	14.0	11.6	18.4	16.8	15.2	16.3
108 Loomis Street, South Branch Chicago River	13.1	17.7	18.5	16.2	12.6	11.8	12.5	12.2	17.9	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	12.0	14.8	10.1	12.4	12.5	13.2	11.8	14.4	19.8	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	15.4	15.6	17.9	17.8	12.7	14.6	13.7	ND	ND	19.1	14.0
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	19.3	19.6	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	16.8	16.8	16.6	19.2	13.0	17.8	13.9	15.1	20.8	16.5	18.5
41 Harlem Avenue, Chicago Sanitary & Ship Canal	9.7	10.3	15.3	12.3	9.6	8.5	8.1	11.6	10.8	11.5	13.2
42 Route 83, Chicago Sanitary & Ship Canal	10.7	13.3	21.8	11.7	7.5	9.0	10.6	11.5	12.1	8.8	8.3
48 Stephen Street, Chicago Sanitary & Ship Canal	14.0	19.7	23.8	18.2	15.0	15.8	16.2	13.4	15.2	16.8	11.5
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.2	37.0
92 Lockport Forebay, Chicago Sanitary & Ship Canal	15.8	22.6	12.9	15.8	14.5	14.6	14.7	15.1	15.5	15.6	ND
Calumet River System											
49 Ewing Avenue, Calumet River	5.0	5.7	5.8	7.3	6.7	9.7	8.7	7.1	11.3	12.6	12.3
50 Burnham Avenue, Wolf Lake	6.6	5.3	5.2	6.1	5.3	5.4	5.8	3.6	7.4	4.7	5.4
55 130th Street, Calumet River	8.4	7.7	6.8	8.5	6.5	7.7	9.3	12.5	20.7	14.0	8.6
86 Burnham Avenue, Grand Calumet River	13.8	23.9	18.5	21.0	49.9	18.9	17.0	16.2	16.9	23.5	16.4
56 Indiana Avenue, Little Calumet River	19.3	33.7	21.6	24.4	25.0	22.0	29.9	27.8	29.6	22.2	26.4
76 Halsted Street, Little Calumet River	12.5	18.8	10.6	12.9	11.3	14.8	10.5	15.2	15.4	11.6	12.7
52 Wentworth Avenue, Little Calumet River	51.0	30.5	44.7	44.1	37.9	32.4	28.7	30.5	53.5	55.4	67.3
54 Joe Orr Road, Thorn Creek	20.1	8.0	7.1	9.9	115.4	17.6	42.0	7.4	11.6	24.1	16.6
97 170th Street, Thorn Creek	40.3	23.8	35.5	32.4	55.4	40.5	30.2	24.1	38.3	ND	ND
57 Ashland Avenue, Little Calumet River	35.3	19.9	34.6	26.5	45.7	30.5	33.0	23.0	39.4	28.5	34.9
58 Ashland Avenue, Calumet-Sag Channel	17.4	17.7	17.5	16.6	15.0	18.8	24.4	17.3	27.7	17.9	18.2
59 Cicero Avenue, Calumet-Sag Channel	22.0	22.8	20.3	24.9	14.3	20.3	24.0	21.1	20.7	19.8	22.3
43 Route 83, Calumet-Sag Channel	23.5	17.4	16.6	20.1	15.5	20.1	35.9	25.9	35.8	28.2	23.7
Des Plaines River System											
90 Route 19, Poplar Creek	14.1	21.9	13.9	25.2	15.9	15.3	30.4	18.9	18.2	36.4	23.1
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	36.0	ND	30.3	40.0	21.1
89 Walnut Lane, West Branch DuPage River	11.8	21.6	15.3	10.8	12.3	15.4	18.3	16.1	18.8	23.5	19.6
64 Lake Street, West Branch DuPage River	26.3	34.5	27.5	34.0	38.5	32.5	40.3	33.2	42.0	45.9	35.5
79 Higgins Road, Salt Creek	24.4	32.1	33.0	31.2	41.4	25.5	44.6	38.0	33.9	41.2	33.7
80 Arlington Heights Road, Salt Creek	13.8	8.4	10.2	10.2	9.8	9.0	8.8	8.3	11.3	11.7	14.4
18 Devon Avenue, Salt Creek	16.7	12.4	16.3	14.1	14.2	19.0	19.9	15.7	23.1	27.4	31.3
24 Wolf Road, Salt Creek	24.1	31.6	30.6	39.4	28.9	23.1	43.3	23.4	31.0	37.6	33.0
109 Brookfield Avenue, Salt Creek	25.5	30.1	25.1	42.7	25.1	19.9	56.1	18.7	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	20.7	29.3	40.6	33.6
77 Elmhurst Road, Higgins Creek	18.8	50.8	26.4	45.3	29.3	29.2	34.8	36.0	28.2	39.3	43.9
78 Wille Road, Higgins Creek	7.0	8.8	6.5	5.4	3.4	7.6	5.9	7.0	5.5	12.4	5.0
12 Lake-Cook Road, Buffalo Creek	27.1	29.3	41.1	29.4	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	20.1	23.3	21.8	27.3	24.0	23.2	36.8	28.7	29.8	33.8	32.8
17 Oakton Street, Des Plaines River	22.3	26.1	22.9	26.1	17.9	23.0	42.1	28.8	29.8	45.9	36.2
19 Belmont Avenue, Des Plaines River	23.0	31.6	26.5	29.4	23.2	22.3	41.8	28.5	26.3	32.2	27.7
20 Roosevelt Road, Des Plaines River	24.3	27.6	26.5	26.9	23.8	21.7	43.4	31.0	26.6	31.0	27.3
22 Ogden Avenue, Des Plaines River	27.6	29.5	29.7	36.3	30.6	21.3	52.6	23.2	27.3	34.3	29.7
23 Willow Springs Road, Des Plaines River	26.2	27.5	23.9	27.8	22.3	24.0	33.4	24.0	33.2	43.9	30.5
29 Stephen Street, Des Plaines River	29.5	28.6	22.8	29.3	29.8	26.5	41.6	28.3	44.1	42.5	39.4
91 Material Service Road, Des Plaines River	26.3	26.4	25.9	27.7	35.0	28.2	46.1	30.1	45.1	38.7	ND
110 Springinguth Road, West Branch DuPage River	22.8	29.1	22.3	17.9	30.5	49.2	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-64: VOLATILE SUSPENDED SOLIDS MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	12.00	19.00	ND
106 Dundee Road, West Fork North Branch Chicago River	7.55	11.36	2.25	13.60	6.75	9.38	13.33	6.50	7.60	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.82	5.80	2.91	7.42	7.40	7.30	5.63	5.64	6.20	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	4.50	6.40	3.90	11.91	5.10	4.30	4.78	6.00	6.36	4.60	5.09
104 Glenview Road, North Branch Chicago River	5.58	6.17	3.55	11.67	5.50	5.42	7.33	5.22	5.30	ND	ND
32 Lake-Cook Road, Skokie River	4.80	6.00	3.20	9.08	6.00	5.20	4.56	4.70	4.45	3.50	4.64
105 Frontage Road, Skokie River	6.75	5.67	4.64	8.50	5.75	5.50	5.33	4.58	5.60	ND	ND
34 Dempster Street, North Branch Chicago River	5.92	5.91	2.55	11.75	6.55	5.25	4.91	6.08	5.67	6.45	5.82
96 Albany Avenue, North Branch Chicago River	4.83	5.50	3.73	6.25	5.55	5.27	5.10	5.33	6.33	4.50	ND
35 Central Street, North Shore Channel	2.89	2.56	2.00	3.11	3.38	1.67	2.56	3.78	2.22	3.56	2.80
102 Oakton Street, North Shore Channel	4.09	4.27	3.75	5.33	3.58	3.75	4.10	5.27	3.00	ND	ND
36 Touhy Avenue, North Shore Channel	4.44	4.58	2.58	5.08	4.92	4.92	4.33	5.08	3.83	4.50	4.08
101 Foster Avenue, North Shore Channel	4.50	6.00	1.83	5.33	4.23	4.75	3.33	5.50	3.60	ND	ND
37 Wilson Avenue, North Branch Chicago River	4.83	5.08	3.08	5.58	4.75	3.92	3.83	4.75	4.92	4.83	3.58
73 Diversey Parkway, North Branch Chicago River	3.33	3.92	3.25	4.83	3.50	3.67	3.83	5.08	5.08	3.75	3.75
46 Grand Avenue, North Branch Chicago River	3.67	4.33	4.27	5.83	3.92	4.58	3.42	4.50	4.25	3.75	3.67
74 Lake Shore Drive, Chicago River	0.67	1.70	1.55	4.82	1.40	0.33	0.90	1.25	1.42	4.67	1.64
100 Wells Street, Chicago River	1.55	2.83	1.45	6.83	1.42	0.67	2.17	1.67	3.00	ND	ND
39 Madison Street, South Branch Chicago River	3.73	3.42	3.36	6.92	1.50	1.92	3.09	4.25	3.33	3.75	3.83
108 Loomis Street, South Branch Chicago River	3.42	4.36	3.50	6.83	2.60	2.50	2.92	2.33	3.89	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	5.91	6.75	2.55	6.29	4.36	4.75	3.83	4.25	7.70	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.55	4.17	3.42	8.00	3.00	3.00	3.33	ND	ND	4.11	3.18
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	4.50	4.40	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.75	4.75	4.08	7.00	2.50	4.17	3.67	3.00	5.00	3.67	3.83
41 Harlem Avenue, Chicago Sanitary & Ship Canal	4.08	3.67	3.67	5.83	3.50	1.67	2.50	2.92	3.17	3.58	3.64
42 Route 83, Chicago Sanitary & Ship Canal	3.80	3.25	3.91	6.67	2.09	1.83	3.00	2.42	3.17	2.36	2.75
48 Stephen Street, Chicago Sanitary & Ship Canal	4.40	4.92	5.36	7.50	2.91	2.17	3.58	2.58	3.42	3.82	2.73
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.71	7.39
92 Lockport Forebay, Chicago Sanitary & Ship Canal	3.82	4.96	3.00	4.88	3.21	2.94	3.69	3.48	3.57	3.68	ND
Calumet River System											
49 Ewing Avenue, Calumet River	1.00	0.33	1.20	2.09	3.09	0.40	1.25	1.42	1.58	2.00	2.05
50 Burnham Avenue, Wolf Lake	3.50	2.42	2.91	4.00	2.50	1.58	2.83	1.58	3.45	2.08	2.25
55 130th Street, Calumet River	1.78	1.67	1.90	2.55	2.27	0.45	1.70	2.67	4.09	2.73	1.94
86 Burnham Avenue, Grand Calumet River	4.40	12.60	8.70	9.18	20.90	8.67	8.20	7.09	5.90	10.00	5.55
56 Indiana Avenue, Little Calumet River	3.13	6.00	3.56	5.27	4.67	3.67	5.00	4.58	5.38	3.92	4.74
76 Halsted Street, Little Calumet River	3.82	5.33	2.27	4.91	3.58	2.00	2.55	3.67	4.25	2.75	3.00
52 Wentworth Avenue, Little Calumet River	8.50	6.60	6.82	7.27	7.55	5.89	5.50	5.45	9.55	9.91	19.73
54 Joe Orr Road, Thorn Creek	4.44	1.67	1.70	2.89	19.13	2.71	6.67	2.71	2.58	4.83	3.25
97 170th Street, Thorn Creek	6.67	4.18	4.09	5.82	7.64	6.45	5.60	4.17	5.90	ND	ND
57 Ashland Avenue, Little Calumet River	6.56	4.80	5.18	6.18	9.00	5.10	6.30	4.75	6.70	4.91	5.91
58 Ashland Avenue, Calumet-Sag Channel	3.73	4.75	3.09	5.73	2.58	3.92	5.00	3.58	5.83	3.50	3.63
59 Cicero Avenue, Calumet-Sag Channel	4.20	4.45	3.64	6.55	3.00	3.08	4.91	4.25	4.17	3.25	4.00
43 Route 83, Calumet-Sag Channel	3.80	3.70	4.00	4.36	4.55	4.30	5.64	5.50	6.25	5.00	4.00
Des Plaines River System											
90 Route 19, Poplar Creek	3.64	4.73	3.36	6.17	4.91	3.60	6.20	4.78	4.45	6.29	4.70
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	8.00	ND	4.00	9.00	5.22
89 Walnut Lane, West Branch DuPage River	5.42	5.75	3.67	4.33	5.58	5.18	6.36	4.58	4.75	6.42	5.91
64 Lake Street, West Branch DuPage River	7.58	8.42	8.33	8.58	10.08	8.09	8.75	7.33	9.00	10.55	7.82
79 Higgins Road, Salt Creek	7.50	8.78	9.70	9.00	11.11	8.50	9.56	9.38	9.30	10.10	10.30
80 Arlington Heights Road, Salt Creek	4.83	3.25	3.17	5.08	4.75	3.55	3.67	3.30	3.75	3.67	3.73
18 Devon Avenue, Salt Creek	5.18	4.25	5.83	6.00	4.50	4.82	5.50	4.10	5.00	5.33	5.27
24 Wolf Road, Salt Creek	4.92	6.08	6.91	9.42	6.58	5.20	8.00	5.25	5.50	6.60	5.55
109 Brookfield Avenue, Salt Creek	5.64	6.00	6.00	9.25	5.17	5.80	9.80	3.67	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	5.00	4.75	6.80	5.91
77 Elmhurst Road, Higgins Creek	7.25	9.80	5.20	11.00	9.50	7.60	7.00	6.83	6.36	8.60	9.55
78 Wille Road, Higgins Creek	2.92	3.50	3.25	3.17	1.17	3.40	2.50	2.58	2.75	4.00	2.55
12 Lake-Cook Road, Buffalo Creek	6.33	6.91	8.67	7.44	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	5.42	6.08	5.50	8.33	5.75	6.80	7.58	7.50	6.92	6.50	5.64
17 Oakton Street, Des Plaines River	5.45	7.18	5.73	7.58	6.08	5.30	8.70	7.09	6.17	8.80	6.45
19 Belmont Avenue, Des Plaines River	5.83	6.58	6.82	8.17	5.83	5.50	7.75	5.75	5.83	5.60	4.82
20 Roosevelt Road, Des Plaines River	5.45	6.58	5.36	8.00	7.00	5.40	7.86	6.08	5.75	5.70	5.00
22 Ogden Avenue, Des Plaines River	6.27	6.36	7.09	8.75	7.00	4.70	11.00	5.33	5.92	6.10	5.09
23 Willow Springs Road, Des Plaines River	6.45	6.18	5.73	7.75	6.17	5.90	7.00	6.00	6.75	7.80	5.64
29 Stephen Street, Des Plaines River	7.45	6.17	4.64	8.83	7.75	7.20	8.82	6.58	9.50	7.30	7.45
91 Material Service Road, Des Plaines River	7.75	6.08	5.64	7.50	8.92	8.00	9.83	7.50	8.98	8.06	ND
110 Springinguth Road, West Branch DuPage River	7.22	9.45	8.40	5.91	13.55	10.44	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-65: TOTAL DISSOLVED SOLIDS MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	1870	1828	ND
106 Dundee Road, West Fork North Branch Chicago River	955	965	1577	807	1018	1244	595	886	894	ND	ND
103 Golf Road, West Fork North Branch Chicago River	833	840	1134	885	1202	753	764	721	709	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	637	776	780	724	864	624	666	663	669	747	669
104 Glenview Road, North Branch Chicago River	676	771	747	654	737	689	703	605	608	ND	ND
32 Lake-Cook Road, Skokie River	615	699	806	661	836	691	664	643	715	814	680
105 Frontage Road, Skokie River	643	750	677	630	677	596	617	584	589	ND	ND
34 Dempster Street, North Branch Chicago River	699	735	832	712	860	786	859	658	729	835	697
96 Albany Avenue, North Branch Chicago River	751	883	837	773	917	662	630	700	652	601	ND
35 Central Street, North Shore Channel	258	316	254	219	236	239	282	309	220	350	289
102 Oakton Street, North Shore Channel	394	425	432	364	412	329	339	395	254	ND	ND
36 Touhy Avenue, North Shore Channel	614	545	641	464	500	496	481	446	534	563	563
101 Foster Avenue, North Shore Channel	591	569	698	479	534	480	460	463	463	ND	ND
37 Wilson Avenue, North Branch Chicago River	614	642	741	513	598	551	548	501	600	639	650
73 Diversey Parkway, North Branch Chicago River	676	687	603	507	557	528	551	495	624	639	639
46 Grand Avenue, North Branch Chicago River	575	690	658	538	582	570	597	485	585	572	579
74 Lake Shore Drive, Chicago River	240	267	359	249	269	295	309	310	398	389	291
100 Wells Street, Chicago River	324	428	404	328	364	376	403	360	368	ND	ND
39 Madison Street, South Branch Chicago River	483	547	530	441	474	450	488	450	548	502	467
108 Loomis Street, South Branch Chicago River	492	531	573	481	463	448	482	463	401	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	479	576	549	413	461	458	473	462	431	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	485	541	599	463	464	472	471	ND	ND	533	472
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	463	469	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	485	587	630	462	482	496	488	483	502	501	459
41 Harlem Avenue, Chicago Sanitary & Ship Canal	570	608	749	517	520	541	523	495	574	607	600
42 Route 83, Chicago Sanitary & Ship Canal	557	615	594	536	571	588	558	546	624	558	600
48 Stephen Street, Chicago Sanitary & Ship Canal	531	620	583	565	576	591	586	566	615	616	570
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	792	597	597
92 Lockport Forebay, Chicago Sanitary & Ship Canal	588	706	634	568	604	602	595	561	628	665	ND
Calumet River System											
49 Ewing Avenue, Calumet River	229	221	236	237	217	225	232	261	290	269	247
50 Burnham Avenue, Wolf Lake	297	295	289	235	273	269	239	243	258	250	226
55 130th Street, Calumet River	387	397	388	345	293	332	325	329	374	350	334
86 Burnham Avenue, Grand Calumet River	768	770	728	844	615	768	894	858	782	911	897
56 Indiana Avenue, Little Calumet River	421	454	457	404	345	388	375	447	385	466	440
76 Halsted Street, Little Calumet River	566	695	637	577	548	564	536	532	606	685	651
52 Wentworth Avenue, Little Calumet River	560	731	634	656	574	712	800	808	653	780	705
54 Joe Orr Road, Thorn Creek	1247	1592	1409	1480	1178	1512	937	1594	1218	1116	1080
97 170th Street, Thorn Creek	943	1163	974	1066	1196	1124	1277	1261	822	ND	ND
57 Ashland Avenue, Little Calumet River	708	833	795	851	879	854	918	890	739	937	870
58 Ashland Avenue, Calumet-Sag Channel	557	712	588	621	617	608	585	683	641	735	622
59 Cicero Avenue, Calumet-Sag Channel	555	672	602	658	611	646	609	597	636	756	639
43 Route 83, Calumet-Sag Channel	559	651	612	622	610	610	589	595	638	732	638
Des Plaines River System											
90 Route 19, Poplar Creek	652	807	770	779	750	740	631	692	715	620	649
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	610	ND	858	658	848
89 Walnut Lane, West Branch DuPage River	594	627	631	645	607	635	590	575	626	628	603
64 Lake Street, West Branch DuPage River	638	723	643	649	663	654	592	627	668	612	595
79 Higgins Road, Salt Creek	701	980	941	773	1034	903	656	708	862	854	700
80 Arlington Heights Road, Salt Creek	708	957	779	778	723	663	659	658	732	738	655
18 Devon Avenue, Salt Creek	657	970	766	792	851	721	694	632	731	743	662
24 Wolf Road, Salt Creek	728	895	783	698	794	723	696	750	752	784	724
109 Brookfield Avenue, Salt Creek	690	857	761	722	784	772	650	547	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	1366	780	765	697
77 Elmhurst Road, Higgins Creek	703	1161	623	1118	1081	1040	873	922	1092	840	814
78 Wille Road, Higgins Creek	781	824	780	706	713	688	666	757	780	721	695
12 Lake-Cook Road, Buffalo Creek	690	923	775	790	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	549	723	642	709	718	664	677	678	646	675	594
17 Oakton Street, Des Plaines River	549	737	634	751	761	651	620	704	681	633	606
19 Belmont Avenue, Des Plaines River	594	812	662	749	760	707	708	730	676	643	609
20 Roosevelt Road, Des Plaines River	584	807	677	744	752	691	605	743	676	650	611
22 Ogden Avenue, Des Plaines River	590	783	690	723	747	691	660	790	716	679	635
23 Willow Springs Road, Des Plaines River	595	801	719	716	751	675	637	708	690	688	642
29 Stephen Street, Des Plaines River	593	822	705	729	743	648	625	726	689	692	632
91 Material Service Road, Des Plaines River	610	801	694	743	770	679	662	758	667	759	ND
110 Springinguth Road, West Branch DuPage River	763	932	879	1155	1047	915	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-66: PHENOLS MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	21.0	10.0	ND
106 Dundee Road, West Fork North Branch Chicago River	0.5	0.0	1.0	0.8	6.8	8.9	9.0	5.5	18.2	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.5	0.0	1.7	1.1	9.9	8.7	5.6	7.6	14.1	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.0	0.0	1.5	0.3	11.4	11.5	9.4	11.6	16.5	24.5	26.0
104 Glenview Road, North Branch Chicago River	0.0	0.0	0.0	0.3	6.3	7.6	4.3	5.2	11.4	ND	ND
32 Lake-Cook Road, Skokie River	0.0	0.0	0.3	0.3	8.0	11.6	7.9	9.1	15.3	19.6	21.0
105 Frontage Road, Skokie River	0.4	0.0	1.1	1.2	5.6	5.7	3.2	5.4	10.3	ND	ND
34 Dempster Street, North Branch Chicago River	0.0	0.0	0.9	0.3	8.4	6.8	5.5	7.3	11.7	18.0	16.0
96 Albany Avenue, North Branch Chicago River	0.0	0.0	0.0	0.3	8.3	8.9	6.4	6.6	13.1	14.5	ND
35 Central Street, North Shore Channel	0.0	0.0	0.3	0.3	4.3	6.6	2.8	4.5	4.6	13.3	12.4
102 Oakton Street, North Shore Channel	0.0	0.0	1.5	1.0	7.1	7.8	6.5	6.0	7.9	ND	ND
36 Touhy Avenue, North Shore Channel	0.0	0.0	1.0	0.5	9.1	9.4	7.3	9.0	14.3	22.2	20.4
101 Foster Avenue, North Shore Channel	0.0	0.0	0.5	1.0	9.8	9.8	6.2	9.0	12.2	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.0	0.0	1.2	1.0	8.5	8.9	6.5	8.3	13.3	20.6	18.7
73 Diversey Parkway, North Branch Chicago River	0.0	0.0	1.1	1.0	10.8	8.4	6.8	8.6	13.8	20.8	17.8
46 Grand Avenue, North Branch Chicago River	0.0	0.0	0.8	1.3	9.8	10.3	5.3	8.5	15.0	21.4	18.8
74 Lake Shore Drive, Chicago River	0.0	0.0	0.4	0.0	4.3	4.4	3.0	2.7	7.3	15.6	9.2
100 Wells Street, Chicago River	0.0	0.0	0.6	0.3	4.8	7.6	3.8	3.8	11.9	ND	ND
39 Madison Street, South Branch Chicago River	0.0	0.0	0.5	0.0	7.6	9.1	7.6	6.7	10.9	23.0	15.8
108 Loomis Street, South Branch Chicago River	0.0	0.0	1.0	0.5	7.7	8.6	5.5	7.4	9.6	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.5	0.0	0.3	0.7	8.7	9.5	5.8	9.5	17.7	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.0	0.0	0.6	0.7	8.3	8.3	5.6	ND	ND	23.0	15.6
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	7.5	11.8	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.0	0.0	1.5	0.9	6.8	7.9	5.0	7.7	11.7	17.5	16.0
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.0	0.0	0.8	0.5	6.6	8.5	5.6	6.8	14.8	18.5	15.3
42 Route 83, Chicago Sanitary & Ship Canal	0.0	0.0	0.5	0.3	9.5	9.7	6.2	8.7	13.4	19.1	17.4
48 Stephen Street, Chicago Sanitary & Ship Canal	0.0	0.0	0.0	0.0	9.2	9.0	6.6	8.3	12.8	21.8	17.9
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.3	10.5
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.0	0.0	1.2	0.8	8.8	8.6	5.7	7.5	10.9	18.5	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.0	0.0	0.4	0.9	2.0	2.7	1.6	1.7	3.3	7.3	7.2
50 Burnham Avenue, Wolf Lake	0.0	0.0	0.0	0.0	5.8	7.4	3.2	3.8	5.0	11.6	10.0
55 130th Street, Calumet River	0.0	0.0	0.0	0.4	4.9	3.6	1.1	1.8	5.0	10.5	8.2
86 Burnham Avenue, Grand Calumet River	1.4	1.1	2.3	1.9	16.1	11.9	7.6	6.1	8.0	22.8	20.0
56 Indiana Avenue, Little Calumet River	0.0	0.0	1.0	0.3	5.0	5.6	2.5	4.1	6.0	13.1	15.3
76 Halsted Street, Little Calumet River	0.0	0.0	1.6	0.9	9.9	8.9	7.2	9.4	11.4	24.1	46.6
52 Wentworth Avenue, Little Calumet River	0.0	0.0	1.3	0.8	14.4	22.4	12.6	16.5	12.5	21.5	23.1
54 Joe Orr Road, Thorn Creek	0.0	0.0	1.2	0.0	13.3	9.3	6.0	9.0	10.2	19.7	18.8
97 170th Street, Thorn Creek	0.0	0.0	1.0	0.0	9.0	9.7	6.2	8.0	7.8	ND	ND
57 Ashland Avenue, Little Calumet River	0.0	0.0	0.4	0.3	10.2	10.9	7.5	8.4	11.9	19.9	21.1
58 Ashland Avenue, Calumet-Sag Channel	0.0	0.0	1.1	0.3	9.1	9.3	7.8	8.8	11.8	21.1	22.6
59 Cicero Avenue, Calumet-Sag Channel	0.0	0.0	0.3	0.5	10.5	10.3	7.9	9.3	13.5	20.6	26.3
43 Route 83, Calumet-Sag Channel	0.0	0.0	0.0	0.4	10.0	9.7	5.5	10.2	11.5	19.1	21.5
Des Plaines River System											
90 Route 19, Poplar Creek	0.0	0.0	1.0	0.0	10.4	8.6	6.5	5.3	10.4	17.3	16.3
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	9.0	ND	18.0	20.1	18.8
89 Walnut Lane, West Branch DuPage River	0.0	0.0	1.0	0.0	9.5	13.3	8.8	7.8	17.1	19.7	20.1
64 Lake Street, West Branch DuPage River	0.0	0.0	0.6	0.3	8.2	9.1	7.9	6.3	15.8	22.5	19.3
79 Higgins Road, Salt Creek	0.0	0.0	1.5	0.4	10.6	8.4	7.9	6.1	13.4	17.1	16.6
80 Arlington Heights Road, Salt Creek	0.0	0.0	0.6	0.5	6.0	9.3	5.0	6.6	15.3	18.2	20.3
18 Devon Avenue, Salt Creek	0.0	0.0	1.2	0.0	5.5	10.4	6.3	5.1	16.2	17.6	19.5
24 Wolf Road, Salt Creek	0.4	0.4	0.6	1.2	5.8	6.7	6.0	5.7	12.4	17.1	16.3
109 Brookfield Avenue, Salt Creek	0.0	0.0	0.5	0.9	8.6	7.6	5.4	5.7	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	4.7	11.9	20.1	16.3
77 Elmhurst Road, Higgins Creek	0.0	0.0	0.0	1.9	11.3	13.0	12.2	5.8	14.9	28.4	21.6
78 Wille Road, Higgins Creek	0.0	0.4	1.6	1.0	8.1	15.5	8.8	11.3	19.0	26.6	25.0
12 Lake-Cook Road, Buffalo Creek	0.0	0.0	0.3	0.9	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.0	0.5	0.7	0.0	6.2	7.6	4.4	4.6	11.4	18.3	16.7
17 Oakton Street, Des Plaines River	0.0	0.0	1.1	0.3	6.8	7.9	5.0	6.4	11.5	19.6	17.0
19 Belmont Avenue, Des Plaines River	0.0	0.0	0.6	1.3	6.5	9.5	5.8	5.3	11.8	20.3	17.9
20 Roosevelt Road, Des Plaines River	0.0	0.5	0.5	0.6	8.4	9.7	6.0	5.3	11.3	19.7	18.7
22 Ogden Avenue, Des Plaines River	0.0	0.0	0.6	0.7	7.6	8.8	7.6	5.0	12.5	19.6	16.9
23 Willow Springs Road, Des Plaines River	0.0	0.6	0.7	2.1	7.6	8.7	4.5	5.6	11.5	16.9	16.1
29 Stephen Street, Des Plaines River	0.0	0.4	0.3	0.9	6.1	8.4	5.3	5.2	14.8	16.3	18.1
91 Material Service Road, Des Plaines River	0.0	0.0	0.3	1.3	10.5	7.5	5.5	5.1	9.9	18.2	ND
110 Springinguth Road, West Branch DuPage River	0.0	0.0	1.2	1.3	15.7	18.0	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-67: TOTAL NONYLPHENOLS MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	09	08	07	06	05	04	03	02	01	00	99
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	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	ND
102 Oakton Street, North Shore Channel	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.00	0.00	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
37 Wilson Avenue, North Branch Chicago River	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
46 Grand Avenue, North Branch Chicago River	0.00	0.00	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
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	ND	ND	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	ND	ND	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	0.00	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.00	0.67	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
48 Stephen Street, Chicago Sanitary & Ship Canal	0.00	0.35	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
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.00	0.22	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
50 Burnham Avenue, Wolf Lake	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
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.00	0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	0.00	0.00	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
54 Joe Orr Road, Thorn Creek	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
57 Ashland Avenue, Little Calumet River	0.00	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
59 Cicero Avenue, Calumet-Sag Channel	0.00	0.00	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
Des Plaines River System											
90 Route 19, Poplar Creek	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
89 Walnut Lane, West Branch DuPage River	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.00	0.00	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
24 Wolf Road, Salt Creek	0.00	0.00	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
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.00	0.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	0.00	0.25	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
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	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
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.00	0.00	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
29 Stephen Street, Des Plaines River	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
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-68: SULFATE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	74.5	77.0	ND
106 Dundee Road, West Fork North Branch Chicago River	47.4	52.9	46.6	53.3	63.0	76.5	64.3	61.8	67.2	ND	ND
103 Golf Road, West Fork North Branch Chicago River	56.2	63.1	68.9	77.9	75.4	75.3	76.4	64.5	61.8	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	45.1	52.7	57.1	68.0	86.3	76.3	76.4	72.3	69.0	72.0	71.9
104 Glenview Road, North Branch Chicago River	53.0	62.7	60.3	66.8	65.1	69.8	67.8	64.1	64.8	ND	ND
32 Lake-Cook Road, Skokie River	51.0	60.0	53.3	61.6	65.4	76.6	80.4	62.3	70.4	74.4	79.2
105 Frontage Road, Skokie River	55.0	62.0	52.7	67.8	63.4	67.4	64.9	64.8	62.3	ND	ND
34 Dempster Street, North Branch Chicago River	51.9	60.6	60.3	71.5	68.6	72.4	71.6	61.9	63.2	76.1	72.4
96 Albany Avenue, North Branch Chicago River	54.3	63.6	59.7	73.1	68.3	72.3	74.0	69.0	65.8	59.1	ND
35 Central Street, North Shore Channel	27.2	34.6	30.4	28.7	26.8	33.8	36.6	34.9	25.6	32.5	34.3
102 Oakton Street, North Shore Channel	38.0	44.1	39.9	43.8	40.9	41.7	43.0	43.3	28.2	ND	ND
36 Touhy Avenue, North Shore Channel	47.9	52.1	49.1	50.8	46.6	51.7	53.4	53.3	79.8	53.8	51.3
101 Foster Avenue, North Shore Channel	46.8	52.9	50.6	51.3	59.6	56.8	53.2	50.6	49.0	ND	ND
37 Wilson Avenue, North Branch Chicago River	46.7	54.8	54.1	58.0	50.8	59.9	57.3	57.1	57.3	53.8	55.7
73 Diversey Parkway, North Branch Chicago River	47.9	56.1	52.3	55.8	50.9	62.2	59.0	55.6	58.2	55.8	68.5
46 Grand Avenue, North Branch Chicago River	45.8	54.9	53.6	57.4	54.1	60.6	58.9	56.3	56.3	55.4	59.2
74 Lake Shore Drive, Chicago River	26.3	30.0	31.7	36.6	29.7	36.8	35.6	32.0	32.0	39.3	32.6
100 Wells Street, Chicago River	32.0	40.9	36.8	39.1	35.4	40.5	44.3	36.6	36.0	ND	ND
39 Madison Street, South Branch Chicago River	42.1	47.8	44.9	49.6	47.6	51.8	54.8	49.1	45.8	50.4	51.3
108 Loomis Street, South Branch Chicago River	43.9	52.2	47.2	52.2	49.8	55.2	53.2	49.3	43.3	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	41.8	55.1	46.1	51.1	56.0	52.8	55.1	51.6	51.8	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	43.1	49.2	46.3	52.0	49.5	53.0	53.1	ND	ND	51.9	51.1
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	49.6	43.9	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	41.9	53.6	48.5	51.9	50.1	55.4	52.5	54.3	46.8	51.6	50.0
41 Harlem Avenue, Chicago Sanitary & Ship Canal	56.2	69.4	67.3	72.1	70.7	76.4	72.9	69.5	63.6	72.3	75.6
42 Route 83, Chicago Sanitary & Ship Canal	60.9	67.5	72.8	75.1	74.2	80.8	82.5	78.5	67.1	70.8	72.2
48 Stephen Street, Chicago Sanitary & Ship Canal	65.8	78.7	83.8	89.6	85.6	91.7	94.6	88.1	88.9	92.3	91.5
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	76.2	86.0	85.7	86.9	88.1	89.8	96.7	88.7	91.1	96.2	ND
Calumet River System											
49 Ewing Avenue, Calumet River	26.6	30.2	32.1	29.9	27.0	28.3	29.2	28.4	28.3	29.8	29.8
50 Burnham Avenue, Wolf Lake	47.5	47.8	42.6	39.4	41.0	43.5	35.2	36.6	38.9	38.6	35.3
55 130th Street, Calumet River	61.9	63.2	82.7	60.7	55.2	57.2	54.2	54.7	63.3	49.8	50.6
86 Burnham Avenue, Grand Calumet River	145.6	162.3	196.1	262.4	176.9	204.9	260.1	219.9	184.3	177.2	157.5
56 Indiana Avenue, Little Calumet River	64.4	72.4	90.1	74.7	64.1	70.4	74.3	78.9	73.4	77.8	72.4
76 Halsted Street, Little Calumet River	76.4	97.7	87.7	91.0	91.3	91.6	100.7	91.2	113.3	143.1	125.0
52 Wentworth Avenue, Little Calumet River	98.1	134.9	118.4	130.0	116.2	143.9	180.2	146.0	122.5	145.1	131.2
54 Joe Orr Road, Thorn Creek	506.7	716.6	596.3	620.0	494.6	620.8	460.4	724.5	521.3	342.4	380.1
97 170th Street, Thorn Creek	298.3	422.5	352.0	419.3	465.3	403.1	498.3	445.9	255.8	ND	ND
57 Ashland Avenue, Little Calumet River	166.0	270.8	223.0	241.5	289.4	235.0	293.1	241.9	161.0	190.1	229.8
58 Ashland Avenue, Calumet-Sag Channel	88.7	107.4	91.4	107.7	118.2	116.5	142.4	146.2	110.3	163.6	133.2
59 Cicero Avenue, Calumet-Sag Channel	99.3	134.4	94.2	123.1	120.4	128.6	136.4	118.2	124.3	151.8	133.9
43 Route 83, Calumet-Sag Channel	93.7	113.0	104.5	117.1	130.0	122.7	128.4	109.3	116.6	144.1	132.4
Des Plaines River System											
90 Route 19, Poplar Creek	42.0	52.7	53.9	71.5	54.6	66.7	46.9	62.8	63.0	60.4	58.0
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	60.2	ND	83.5	71.7	87.1
89 Walnut Lane, West Branch DuPage River	60.0	70.8	65.7	81.8	68.1	77.2	68.1	65.4	73.5	69.3	68.7
64 Lake Street, West Branch DuPage River	61.0	68.0	65.3	81.9	71.4	78.0	68.1	68.0	77.8	68.5	70.5
79 Higgins Road, Salt Creek	62.4	71.1	62.5	81.7	79.4	93.3	72.8	76.0	89.5	79.5	74.9
80 Arlington Heights Road, Salt Creek	62.5	75.1	76.8	85.0	82.9	84.9	77.7	79.3	84.4	73.9	83.6
18 Devon Avenue, Salt Creek	61.6	75.0	75.7	84.5	83.2	84.6	76.4	79.5	82.4	74.0	74.5
24 Wolf Road, Salt Creek	77.3	82.8	84.6	87.0	92.2	96.7	84.1	95.0	98.7	89.4	94.5
109 Brookfield Avenue, Salt Creek	71.7	79.2	79.9	85.2	88.4	97.9	82.4	84.5	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	95.8	94.2	86.2	90.1
77 Elmhurst Road, Higgins Creek	36.3	48.7	37.5	47.1	46.7	66.3	44.8	47.8	60.9	47.0	55.4
78 Wille Road, Higgins Creek	81.7	90.0	91.0	91.7	103.6	100.2	90.4	97.1	107.8	94.5	99.3
12 Lake-Cook Road, Buffalo Creek	69.5	87.6	70.8	111.5	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	49.4	72.3	75.7	97.0	84.7	88.9	91.6	84.9	76.8	81.0	71.1
17 Oakton Street, Des Plaines River	52.0	69.8	69.8	92.5	112.2	89.9	88.4	86.3	85.8	75.5	73.4
19 Belmont Avenue, Des Plaines River	57.5	75.3	70.6	90.7	88.0	91.2	85.4	85.6	79.5	78.1	78.3
20 Roosevelt Road, Des Plaines River	54.4	75.5	70.5	89.7	100.1	90.6	85.7	87.4	80.5	78.5	75.6
22 Ogden Avenue, Des Plaines River	56.9	74.7	68.8	90.9	85.1	87.9	89.1	87.5	98.9	79.2	77.7
23 Willow Springs Road, Des Plaines River	58.0	77.7	73.1	88.2	89.3	92.8	92.2	90.0	83.8	85.5	82.2
29 Stephen Street, Des Plaines River	57.3	76.7	76.9	91.1	90.5	91.4	95.6	90.6	82.9	83.4	79.6
91 Material Service Road, Des Plaines River	61.0	75.8	74.9	93.7	105.3	94.3	97.5	95.8	81.2	89.1	ND
110 Springinguth Road, West Branch DuPage River	64.2	77.9	85.1	112.4	80.5	98.7	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-69: FATS, OILS, AND GREASES MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	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	ND	ND	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	ND	ND	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	ND	ND	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	0.00	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	0.00	0.00	0.42	0.42	0.73	2.48	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.00	0.00	0.30	0.27	2.14	2.37	4.47	5.54	4.79	ND	ND
101 Foster Avenue, North Shore Channel	0.00	0.00	0.33	0.67	2.02	1.94	2.73	4.84	3.96	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.00	0.00	0.67	0.42	2.45	1.85	3.38	5.45	4.56	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.00	0.00	0.00	0.83	0.86	2.33	3.38	3.85	8.94	ND	ND
46 Grand Avenue, North Branch Chicago River	0.00	0.00	0.27	0.42	1.85	2.97	2.59	4.72	3.88	ND	ND
74 Lake Shore Drive, Chicago River	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
39 Madison Street, South Branch Chicago River	0.00	0.00	0.27	0.00	0.68	1.93	3.56	5.70	4.16	ND	ND
108 Loomis Street, South Branch Chicago River	0.00	0.00	0.00	0.00	0.80	1.64	2.87	4.68	4.79	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.00	0.00	0.00	0.00	0.55	2.77	2.96	4.41	4.03	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.00	0.00	0.67	0.00	0.73	3.03	3.16	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	4.37	3.89	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.00	0.00	0.25	0.00	1.24	1.59	2.89	5.57	4.09	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.00	1.17	0.00	0.00	0.65	2.03	2.73	5.16	4.09	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.00	0.00	0.55	0.00	0.93	2.64	2.06	5.31	5.79	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.00	0.00	0.00	0.00	1.18	4.29	2.74	4.10	3.37	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	0.22	0.10	0.14	0.37	1.52	1.95	3.85	4.76	3.92	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	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
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.00	0.50	0.60	1.00	1.77	1.46	6.40	5.76	3.17	ND	ND
56 Indiana Avenue, Little Calumet River	0.00	0.56	0.00	1.18	0.00	1.41	3.66	4.87	3.39	ND	ND
76 Halsted Street, Little Calumet River	0.00	0.42	0.00	1.18	0.43	1.28	2.91	4.39	4.54	ND	ND
52 Wentworth Avenue, Little Calumet River	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
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	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.00	0.42	0.00	0.73	0.58	1.98	3.36	5.33	4.20	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.00	0.45	0.00	0.55	0.78	1.78	2.58	4.45	3.92	ND	ND
43 Route 83, Calumet-Sag Channel	9.80	0.50	0.00	0.73	0.79	2.29	3.41	4.38	4.33	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	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
89 Walnut Lane, West Branch DuPage River	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
79 Higgins Road, Salt Creek	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
18 Devon Avenue, Salt Creek	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
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	ND	ND	ND
77 Elmhurst Road, Higgins Creek	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
12 Lake-Cook Road, Buffalo Creek	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
17 Oakton Street, Des Plaines River	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
20 Roosevelt Road, Des Plaines River	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
23 Willow Springs Road, Des Plaines River	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
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
1999 THROUGH 2009**

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.545	2.200	ND
106 Dundee Road, West Fork North Branch Chicago River	1.260	1.198	1.038	0.964	1.508	2.120	1.620	0.963	1.102	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.397	0.422	0.669	0.572	0.834	0.550	0.614	0.752	0.663	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.016	0.136	0.183	0.158	0.210	0.145	0.112	0.155	0.143	0.185	0.245
104 Glenview Road, North Branch Chicago River	0.659	0.643	1.028	0.936	1.413	1.014	1.033	1.256	0.844	ND	ND
32 Lake-Cook Road, Skokie River	0.019	0.058	0.175	0.599	0.863	0.237	0.331	0.187	0.150	0.224	0.196
105 Frontage Road, Skokie River	0.883	0.815	1.246	1.174	1.538	1.223	1.708	1.477	0.932	ND	ND
34 Dempster Street, North Branch Chicago River	0.550	0.602	0.879	0.840	1.199	0.925	1.269	1.153	0.624	1.147	1.208
96 Albany Avenue, North Branch Chicago River	0.538	0.507	0.808	0.760	1.155	0.795	1.002	1.037	0.718	1.312	ND
35 Central Street, North Shore Channel	0.077	0.000	0.062	0.056	0.016	0.088	0.213	0.101	0.058	0.183	0.215
102 Oakton Street, North Shore Channel	0.442	0.432	0.538	0.632	0.444	0.489	0.548	0.655	0.221	ND	ND
36 Touhy Avenue, North Shore Channel	1.054	1.040	1.388	1.033	1.241	1.170	1.377	1.057	1.259	1.214	1.351
101 Foster Avenue, North Shore Channel	1.113	1.082	1.450	1.384	1.248	1.328	1.287	1.148	1.406	ND	ND
37 Wilson Avenue, North Branch Chicago River	1.031	0.961	1.287	1.191	1.130	1.227	1.143	1.043	1.198	1.301	1.388
73 Diversey Parkway, North Branch Chicago River	0.931	0.897	1.112	0.986	0.870	1.065	1.055	0.905	0.889	1.102	1.116
46 Grand Avenue, North Branch Chicago River	0.836	0.878	1.115	1.004	1.121	0.923	0.982	0.953	0.800	1.130	1.120
74 Lake Shore Drive, Chicago River	0.003	0.053	0.152	0.125	0.158	0.228	0.226	0.191	0.291	0.373	0.206
100 Wells Street, Chicago River	0.150	0.320	0.308	0.309	0.355	0.443	0.639	0.429	0.387	ND	ND
39 Madison Street, South Branch Chicago River	0.669	0.658	0.709	0.661	0.830	0.908	1.089	0.756	0.611	1.130	0.839
108 Loomis Street, South Branch Chicago River	0.574	0.591	0.678	0.723	0.722	0.860	0.775	0.732	0.573	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.485	0.580	0.609	0.590	0.767	0.804	0.857	0.719	0.610	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.611	0.630	0.686	0.702	0.755	0.843	0.884	ND	ND	1.046	0.727
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.738	0.609	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.493	0.637	0.763	0.661	0.746	0.803	0.867	0.723	0.671	0.965	0.690
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.673	0.829	1.008	0.825	0.988	0.953	1.100	0.984	0.990	1.120	1.044
42 Route 83, Chicago Sanitary & Ship Canal	0.609	0.862	0.830	0.602	0.725	0.978	0.836	0.918	0.760	0.755	0.643
48 Stephen Street, Chicago Sanitary & Ship Canal	0.823	0.928	0.964	0.901	1.168	1.103	1.083	1.180	1.096	1.355	1.098
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.485	1.545
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.864	0.952	0.852	0.935	1.166	1.014	1.138	1.197	1.032	1.414	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.011	0.044	0.025	0.060	0.032	0.060	0.081	0.131	0.145
50 Burnham Avenue, Wolf Lake	0.004	0.000	0.037	0.045	0.023	0.053	0.029	0.035	0.070	0.075	0.234
55 130th Street, Calumet River	0.004	0.000	0.031	0.038	0.025	0.049	0.035	0.039	0.127	0.088	0.197
86 Burnham Avenue, Grand Calumet River	0.290	0.835	1.209	0.699	0.878	0.584	0.607	0.613	0.666	0.537	0.857
56 Indiana Avenue, Little Calumet River	0.010	0.340	0.189	0.359	0.372	0.538	0.504	0.495	0.554	0.373	0.324
76 Halsted Street, Little Calumet River	1.493	2.035	1.037	1.835	2.083	1.638	2.126	2.038	1.386	3.193	2.595
52 Wentworth Avenue, Little Calumet River	0.493	0.587	0.585	0.645	0.609	0.543	0.561	0.595	0.495	0.752	1.168
54 Joe Orr Road, Thorn Creek	1.743	2.664	2.329	2.038	2.113	2.054	1.650	5.909	5.645	5.208	3.000
97 170th Street, Thorn Creek	1.144	1.383	1.479	1.170	1.574	1.502	2.101	2.607	2.296	ND	ND
57 Ashland Avenue, Little Calumet River	0.519	0.993	0.834	0.764	1.061	0.812	1.223	1.481	1.537	2.170	1.522
58 Ashland Avenue, Calumet-Sag Channel	1.412	1.957	0.963	1.755	2.077	1.562	1.898	2.070	1.442	3.038	2.190
59 Cicero Avenue, Calumet-Sag Channel	1.258	1.803	0.989	1.802	2.214	1.646	2.048	2.129	1.511	3.119	2.396
43 Route 83, Calumet-Sag Channel	1.329	1.378	1.037	1.318	2.266	1.483	1.686	1.814	1.619	2.642	2.453
Des Plaines River System											
90 Route 19, Poplar Creek	0.012	0.000	0.100	0.116	0.087	0.075	0.108	0.066	0.060	0.181	0.430
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.140	ND	0.225	0.184	0.952
89 Walnut Lane, West Branch DuPage River	2.340	2.426	2.460	2.270	2.670	2.745	2.440	2.603	2.428	2.109	2.742
64 Lake Street, West Branch DuPage River	1.747	2.119	2.062	1.911	2.432	2.400	2.338	2.245	2.030	1.649	2.205
79 Higgins Road, Salt Creek	0.253	0.000	0.132	0.149	0.108	0.097	0.106	0.109	0.106	0.249	0.128
80 Arlington Heights Road, Salt Creek	1.588	0.142	0.513	1.791	2.022	1.850	1.980	1.992	1.687	1.688	2.224
18 Devon Avenue, Salt Creek	1.563	0.133	0.548	1.882	1.981	1.899	2.007	1.955	1.810	1.710	2.231
24 Wolf Road, Salt Creek	1.122	0.761	0.839	1.471	1.896	1.595	1.584	1.773	1.227	1.407	1.745
109 Brookfield Avenue, Salt Creek	0.944	0.733	0.765	1.355	1.603	1.317	1.328	1.943	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	1.043	1.073	1.239	1.595
77 Elmhurst Road, Higgins Creek	0.035	0.000	0.112	0.123	0.098	0.108	0.290	0.117	0.112	0.184	0.221
78 Wille Road, Higgins Creek	0.936	1.176	0.813	0.663	1.577	0.662	0.478	0.864	0.508	0.578	0.671
12 Lake-Cook Road, Buffalo Creek	0.012	0.000	0.167	0.122	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.566	0.915	0.934	1.075	1.498	0.985	1.333	1.268	0.826	0.984	1.261
17 Oakton Street, Des Plaines River	0.502	0.765	0.772	0.873	1.256	0.889	0.958	1.033	0.691	0.705	0.971
19 Belmont Avenue, Des Plaines River	0.532	0.745	0.738	0.816	1.107	0.688	0.852	0.883	0.590	0.914	0.780
20 Roosevelt Road, Des Plaines River	0.475	0.682	0.700	0.700	1.069	0.631	0.891	0.875	0.546	0.583	0.701
22 Ogden Avenue, Des Plaines River	0.631	0.656	0.697	0.923	1.224	0.811	1.272	1.095	0.658	0.732	0.963
23 Willow Springs Road, Des Plaines River	0.535	0.641	0.647	0.882	1.173	0.796	0.919	1.060	0.618	0.762	0.887
29 Stephen Street, Des Plaines River	0.535	0.699	0.715	0.930	1.201	0.834	1.077	0.998	0.672	0.742	0.940
91 Material Service Road, Des Plaines River	0.552	0.680	0.733	0.915	1.263	0.778	1.104	0.969	0.679	0.914	ND
110 Springinguth Road, West Branch DuPage River	0.093	0.111	0.179	0.184	0.325	0.205	ND	ND	ND	ND	ND

ND = No Data.

**TABLE AII-71: SOLUBLE PHOSPHORUS MEAN HISTORY
1999 THROUGH 2009**

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.340	1.610	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.910	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.448	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.028	0.082	0.109
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.530	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	0.026	0.111	0.108
105 Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND	0.633	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.418	0.889	0.920
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.525	1.103	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	0.053	0.044	0.098
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	0.000	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	0.928	0.989	1.066
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	1.168	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.830	0.904	1.160
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.707	0.814	0.917
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.682	0.865	0.853
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.390	0.270	0.157
100 Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.500	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.594	0.730	0.646
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.555	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	0.490	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.703	0.492
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.537	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.646	0.672	0.459
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.618	0.834	0.754
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.646	0.571	0.478
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	0.970	1.071	0.798
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	ND	ND	ND	ND	0.846	1.156	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	0.046	0.053	0.060
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	0.032	0.040	0.064
55 130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.045	0.080
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	0.155	0.121	0.191
56 Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	0.090	0.277	0.110
76 Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	1.372	2.923	2.684
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	0.240	0.384	0.398
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	5.608	4.875	2.556
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	1.620	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	0.915	1.882	1.229
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	1.300	2.720	2.077
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	1.312	2.794	2.314
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	1.046	2.306	2.348
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.020	0.064	0.070
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	0.137	0.060	0.729
89 Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	1.970	1.910	2.243
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	1.772	1.383	1.712
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.039	0.074
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	1.265	1.488	1.843
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	1.287	1.447	1.868
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.987	1.094	1.369
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	0.937	0.945	1.275
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.026	0.044	0.071
78 Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	0.265	0.385	0.506
12 Lake-Cook Road, Buffalo Creek	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	0.412	0.716	1.047
17 Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	0.352	0.480	0.741
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	0.315	0.420	0.609
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	0.313	0.416	0.562
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	0.443	0.557	0.769
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	0.443	0.544	0.679
29 Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	0.488	0.575	0.664
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	0.380	0.711	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
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.009	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.000	0.005	0.001	0.005	0.005	0.002	0.003	0.005	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.002	0.001	0.003	0.002	0.002	0.003	0.003	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.002	0.002	0.001	0.002	0.001	0.002	0.002
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.001	0.000	0.002	0.003	0.002	0.003	0.003	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.003	0.003
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.000	0.002	0.002	0.002	0.002	0.004	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.001	0.000	0.002	0.003	0.003	0.008	0.004	0.006	0.005
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	0.001	0.002	0.003	0.002	0.002	0.004	0.005	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.002	0.002
102 Oakton Street, North Shore Channel	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.004	0.002	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.000	0.002	0.001	0.002	0.004	0.003	0.004	0.006	0.006	0.005
101 Foster Avenue, North Shore Channel	0.001	0.000	0.003	0.001	0.003	0.003	0.003	0.004	0.005	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.000	0.002	0.001	0.003	0.003	0.003	0.004	0.005	0.006	0.007
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.002	0.001	0.003	0.003	0.003	0.003	0.006	0.012	0.008
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.002	0.001	0.003	0.004	0.003	0.004	0.005	0.006	0.007
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.002	0.003	0.001
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.001	0.000	0.002	0.003	0.004	0.004	0.004	0.005	0.005
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.001	0.001	0.002	0.003	0.003	0.003	0.003	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.001	0.001	0.002	0.002	0.003	0.003	0.005	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.002	0.003	0.003	ND	ND	0.005	0.005
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.003	0.004	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.001	0.001	0.002	0.003	0.003	0.003	0.004	0.004	0.005
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.004	0.003	0.003	0.003	0.003	0.005	0.006	0.007	0.006
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.002	0.002	0.004	0.003	0.004	0.005	0.006	0.007	0.007
48 Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.000	0.002	0.003	0.004	0.004	0.003	0.006	0.007	0.007	0.007
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	0.002	0.003	0.003	0.004	0.003	0.005	0.006	0.007	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.001
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.001
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.001
86 Burnham Avenue, Grand Calumet River	0.000	0.002	0.004	0.003	0.005	0.005	0.005	0.006	0.010	0.009	0.008
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.002	0.002	0.003	0.003
76 Halsted Street, Little Calumet River	0.000	0.000	0.002	0.002	0.003	0.003	0.003	0.005	0.007	0.010	0.010
52 Wentworth Avenue, Little Calumet River	0.000	0.001	0.006	0.004	0.006	0.016	0.005	0.006	0.009	0.061	0.040
54 Joe Orr Road, Thorn Creek	0.001	0.000	0.002	0.002	0.003	0.004	0.003	0.006	0.005	0.008	0.007
97 170th Street, Thorn Creek	0.000	0.000	0.001	0.000	0.002	0.002	0.002	0.004	0.004	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.003	0.002	0.003	0.005	0.004	0.005	0.005	0.008	0.009
58 Ashland Avenue, Calumet-Sag Channel	0.001	0.000	0.002	0.002	0.003	0.004	0.003	0.005	0.007	0.009	0.009
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.002	0.002	0.003	0.003	0.003	0.005	0.006	0.008	0.008
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.001	0.001	0.002	0.003	0.002	0.004	0.006	0.007	0.007
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.002	0.002	0.002	0.002
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.002	ND	0.004	0.002	0.007
89 Walnut Lane, West Branch DuPage River	0.001	0.001	0.005	0.004	0.004	0.006	0.005	0.007	0.010	0.008	0.012
64 Lake Street, West Branch DuPage River	0.000	0.000	0.003	0.002	0.004	0.004	0.004	0.005	0.008	0.007	0.009
79 Higgins Road, Salt Creek	0.000	0.000	0.002	0.000	0.001	0.002	0.002	0.002	0.003	0.002	0.004
80 Arlington Heights Road, Salt Creek	0.001	0.000	0.002	0.001	0.003	0.004	0.003	0.005	0.008	0.007	0.010
18 Devon Avenue, Salt Creek	0.001	0.000	0.002	0.001	0.003	0.004	0.003	0.005	0.008	0.006	0.009
24 Wolf Road, Salt Creek	0.000	0.000	0.001	0.000	0.002	0.003	0.003	0.004	0.006	0.004	0.007
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.001	0.001	0.002	0.002	0.003	0.003	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.006	0.005	0.004	0.006
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.003	0.003	0.004	0.003	0.004	0.003	0.004	0.003
78 Wille Road, Higgins Creek	0.000	0.001	0.004	0.002	0.003	0.004	0.004	0.005	0.007	0.006	0.011
12 Lake-Cook Road, Buffalo Creek	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	0.000	0.002	0.001	0.002	0.003	0.006	0.005	0.010
17 Oakton Street, Des Plaines River	0.000	0.002	0.001	0.001	0.005	0.002	0.002	0.003	0.005	0.004	0.009
19 Belmont Avenue, Des Plaines River	0.000	0.003	0.002	0.001	0.009	0.002	0.003	0.003	0.005	0.004	0.005
20 Roosevelt Road, Des Plaines River	0.000	0.002	0.002	0.001	0.009	0.002	0.002	0.004	0.005	0.004	0.005
22 Ogden Avenue, Des Plaines River	0.000	0.002	0.002	0.001	0.003	0.002	0.003	0.003	0.005	0.003	0.006
23 Willow Springs Road, Des Plaines River	0.000	0.001	0.002	0.000	0.002	0.002	0.002	0.003	0.004	0.004	0.005
29 Stephen Street, Des Plaines River	0.000	0.000	0.001	0.000	0.002	0.002	0.002	0.004	0.004	0.004	0.005
91 Material Service Road, Des Plaines River	0.000	0.000	0.001	0.000	0.001	0.002	0.002	0.004	0.004	0.005	ND
110 Springinguth Road, West Branch DuPage River	0.001	0.002	0.002	0.002	0.003	0.003	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-73: WEAK ACID DISSOCIABLE CYANIDE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.001	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.001	0.002	0.001	0.001	0.001	0.001	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
101 Foster Avenue, North Shore Channel	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.001	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.001	0.001	0.001	ND	ND	0.001	0.001
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.000	0.001	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.002	0.001	0.002	0.004	0.001	0.001	0.001	0.009	0.008
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
97 170th Street, Thorn Creek	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.003
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.001	ND	0.001	0.001	0.001
89 Walnut Lane, West Branch DuPage River	0.000	0.001	0.003	0.002	0.002	0.002	0.002	0.003	0.002	0.001	0.002
64 Lake Street, West Branch DuPage River	0.000	0.000	0.002	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.000	0.002
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.002	0.001	0.002	0.002	0.001	0.002	0.002	0.001	0.002
18 Devon Avenue, Salt Creek	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.001
24 Wolf Road, Salt Creek	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.001	0.001	0.001	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
78 Wille Road, Higgins Creek	0.000	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.004
17 Oakton Street, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.006
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-74: FLUORIDE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.240	0.710	ND
106 Dundee Road, West Fork North Branch Chicago River	0.476	0.428	0.345	0.334	0.520	0.553	0.450	0.433	0.408	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.355	0.339	0.401	0.370	0.469	0.360	0.394	0.425	0.387	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.202	0.216	0.361	0.296	0.375	0.289	0.334	0.343	0.266	0.310	0.312
104 Glenview Road, North Branch Chicago River	0.418	0.425	0.519	0.457	0.584	0.513	0.460	0.617	0.464	ND	ND
32 Lake-Cook Road, Skokie River	0.225	0.229	0.314	0.379	0.483	0.291	0.364	0.354	0.247	0.315	0.373
105 Frontage Road, Skokie River	0.466	0.441	0.569	0.538	0.614	0.557	0.686	0.703	0.500	ND	ND
34 Dempster Street, North Branch Chicago River	0.383	0.398	0.485	0.438	0.539	0.473	0.581	0.605	0.378	0.577	0.604
96 Albany Avenue, North Branch Chicago River	0.392	0.332	0.478	0.436	0.516	0.439	0.528	0.567	0.446	0.642	ND
35 Central Street, North Shore Channel	0.037	0.051	0.198	0.181	0.135	0.136	0.233	0.307	0.138	0.187	0.184
102 Oakton Street, North Shore Channel	0.272	0.269	0.420	0.456	0.346	0.318	0.376	0.512	0.238	ND	ND
36 Touhy Avenue, North Shore Channel	0.614	0.609	0.763	0.662	0.675	0.619	0.721	0.749	0.694	0.812	0.781
101 Foster Avenue, North Shore Channel	0.614	0.618	0.753	0.683	0.685	0.652	0.717	0.745	0.722	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.543	0.560	0.710	0.634	0.667	0.617	0.678	0.693	0.623	0.779	0.758
73 Diversey Parkway, North Branch Chicago River	0.575	0.563	0.699	0.615	0.667	0.624	0.688	0.684	0.648	0.765	0.765
46 Grand Avenue, North Branch Chicago River	0.529	0.533	0.688	0.623	0.720	0.601	0.690	0.717	0.665	0.783	0.768
74 Lake Shore Drive, Chicago River	0.066	0.116	0.229	0.196	0.196	0.229	0.250	0.238	0.353	0.358	0.235
100 Wells Street, Chicago River	0.196	0.280	0.312	0.297	0.316	0.322	0.458	0.423	0.363	ND	ND
39 Madison Street, South Branch Chicago River	0.461	0.409	0.465	0.462	0.551	0.550	0.665	0.590	0.537	0.645	0.607
108 Loomis Street, South Branch Chicago River	0.463	0.430	0.467	0.489	0.557	0.551	0.596	0.581	0.543	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.456	0.443	0.472	0.461	0.565	0.516	0.578	0.565	0.595	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.463	0.433	0.467	0.468	0.555	0.525	0.592	ND	ND	0.667	0.537
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.532	0.538	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.418	0.464	0.498	0.479	0.531	0.503	0.578	0.578	0.471	0.617	0.513
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.564	0.562	0.633	0.643	0.740	0.686	0.727	0.743	0.633	0.781	0.743
42 Route 83, Chicago Sanitary & Ship Canal	0.570	0.543	0.685	0.696	0.756	0.768	0.825	0.809	0.715	0.806	0.778
48 Stephen Street, Chicago Sanitary & Ship Canal	0.519	0.519	0.636	0.648	0.701	0.683	0.800	0.809	0.752	0.799	0.729
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.914	0.865
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.532	0.562	0.634	0.663	0.719	0.634	0.769	0.802	0.751	0.810	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.073	0.170	0.156	0.128	0.115	0.150	0.188	0.144	0.148	0.135
50 Burnham Avenue, Wolf Lake	0.354	0.338	0.334	0.247	0.275	0.228	0.223	0.213	0.208	0.200	0.237
55 130th Street, Calumet River	0.184	0.240	0.264	0.253	0.219	0.220	0.312	0.248	0.247	0.230	0.301
86 Burnham Avenue, Grand Calumet River	0.768	0.814	0.696	0.809	0.722	0.740	0.812	0.873	0.783	0.823	0.711
56 Indiana Avenue, Little Calumet River	0.235	0.394	0.348	0.324	0.317	0.278	0.375	0.394	0.375	0.382	0.317
76 Halsted Street, Little Calumet River	0.521	0.610	0.534	0.602	0.582	0.536	0.665	0.633	0.730	0.891	0.759
52 Wentworth Avenue, Little Calumet River	0.858	2.284	2.539	2.962	3.129	1.764	2.838	12.390	4.096	4.255	1.980
54 Joe Orr Road, Thorn Creek	0.564	0.658	0.549	0.659	0.474	0.626	0.483	0.746	0.674	0.737	0.596
97 170th Street, Thorn Creek	0.471	0.553	0.470	0.539	0.492	0.543	0.634	1.613	0.520	ND	ND
57 Ashland Avenue, Little Calumet River	0.766	0.924	0.803	1.115	1.182	0.887	1.107	2.865	1.627	1.609	0.722
58 Ashland Avenue, Calumet-Sag Channel	0.514	0.593	0.514	0.630	0.646	0.563	1.020	1.188	0.828	0.935	0.631
59 Cicero Avenue, Calumet-Sag Channel	0.499	0.575	0.507	0.639	0.637	0.575	0.719	0.935	0.935	0.916	0.647
43 Route 83, Calumet-Sag Channel	0.457	0.534	0.511	0.562	0.662	0.590	0.659	0.925	0.805	0.827	0.650
Des Plaines River System											
90 Route 19, Poplar Creek	0.155	0.150	0.231	0.208	0.209	0.198	0.206	0.234	0.257	0.171	0.192
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.170	ND	0.295	0.303	0.419
89 Walnut Lane, West Branch DuPage River	0.610	0.550	0.643	0.629	0.643	0.568	0.625	0.744	0.721	0.723	0.719
64 Lake Street, West Branch DuPage River	0.483	0.530	0.569	0.529	0.603	0.572	0.601	0.631	0.540	0.587	0.598
79 Higgins Road, Salt Creek	0.155	0.197	0.259	0.213	0.207	0.189	0.191	0.238	0.253	0.294	0.282
80 Arlington Heights Road, Salt Creek	0.458	0.517	0.563	0.523	0.553	0.546	0.547	0.602	0.573	0.643	0.595
18 Devon Avenue, Salt Creek	0.445	0.503	0.564	0.534	0.498	0.549	0.568	0.578	0.558	0.608	0.628
24 Wolf Road, Salt Creek	0.408	0.509	0.498	0.480	0.585	0.565	0.542	0.634	0.523	0.542	0.600
109 Brookfield Avenue, Salt Creek	0.395	0.522	0.474	0.459	0.467	0.511	0.474	0.698	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.447	0.499	0.486	0.607
77 Elmhurst Road, Higgins Creek	0.085	0.244	0.296	0.220	0.190	0.223	0.222	0.208	0.315	0.317	0.207
78 Wille Road, Higgins Creek	0.627	0.715	0.897	0.959	0.879	0.812	0.858	0.788	0.762	0.746	0.745
12 Lake-Cook Road, Buffalo Creek	0.044	0.099	0.234	0.191	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.325	0.401	0.424	0.425	0.438	0.400	0.525	0.508	0.393	0.402	0.458
17 Oakton Street, Des Plaines River	0.292	0.378	0.374	0.369	0.468	0.382	0.459	0.459	0.367	0.400	0.472
19 Belmont Avenue, Des Plaines River	0.355	0.424	0.442	0.468	0.468	0.435	0.541	0.502	0.425	0.459	0.506
20 Roosevelt Road, Des Plaines River	0.335	0.416	0.453	0.452	0.449	0.417	0.496	0.516	0.464	0.526	0.455
22 Ogden Avenue, Des Plaines River	0.345	0.443	0.437	0.447	0.440	0.429	0.592	0.541	0.408	0.410	0.514
23 Willow Springs Road, Des Plaines River	0.332	0.417	0.440	0.440	0.530	0.431	0.488	0.557	0.420	0.488	0.488
29 Stephen Street, Des Plaines River	0.328	0.390	0.470	0.453	0.510	0.427	0.536	0.516	0.386	0.486	0.514
91 Material Service Road, Des Plaines River	0.313	0.408	0.421	0.443	0.540	0.419	0.545	0.518	0.377	0.490	ND
110 Springinguth Road, West Branch DuPage River	0.233	0.218	0.265	0.240	0.251	0.302	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-75: TOTAL ORGANIC CARBON MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	7.50	7.00	ND
106 Dundee Road, West Fork North Branch Chicago River	4.75	3.97	3.90	4.58	6.43	8.88	10.67	9.50	12.60	ND	ND
103 Golf Road, West Fork North Branch Chicago River	4.53	3.53	4.05	4.08	6.88	8.40	8.88	9.36	8.40	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	6.01	5.13	6.75	6.17	9.02	10.10	11.00	11.40	9.73	12.40	13.36
104 Glenview Road, North Branch Chicago River	4.65	4.08	4.40	4.63	5.98	8.33	9.00	8.00	8.10	ND	ND
32 Lake-Cook Road, Skokie River	5.09	4.36	4.96	5.43	7.62	9.30	9.89	10.60	9.36	12.30	11.27
105 Frontage Road, Skokie River	4.37	3.73	4.29	4.43	5.64	7.17	7.75	8.92	7.60	ND	ND
34 Dempster Street, North Branch Chicago River	4.63	3.96	4.25	4.50	6.97	9.67	8.82	8.50	7.83	10.73	9.82
96 Albany Avenue, North Branch Chicago River	4.51	3.72	4.32	4.51	6.70	8.18	9.30	8.92	8.33	8.33	ND
35 Central Street, North Shore Channel	2.71	1.67	1.78	1.92	2.49	4.22	4.89	5.33	3.33	5.67	6.30
102 Oakton Street, North Shore Channel	3.26	2.36	2.92	3.38	4.42	5.92	7.44	7.27	4.20	ND	ND
36 Touhy Avenue, North Shore Channel	4.16	3.39	4.03	4.12	6.41	8.08	8.92	8.83	8.00	10.58	9.92
101 Foster Avenue, North Shore Channel	3.98	3.37	4.07	4.26	6.48	8.25	8.42	8.67	7.60	ND	ND
37 Wilson Avenue, North Branch Chicago River	4.02	3.40	3.88	4.32	6.68	8.08	8.67	9.17	7.75	10.17	9.08
73 Diversey Parkway, North Branch Chicago River	3.89	3.32	4.10	4.08	6.26	7.83	8.92	9.25	7.92	10.33	9.25
46 Grand Avenue, North Branch Chicago River	4.13	3.43	4.01	4.25	6.49	7.92	8.92	8.50	7.83	9.92	8.83
74 Lake Shore Drive, Chicago River	2.23	1.77	1.87	1.75	2.54	4.22	4.30	4.42	4.58	6.58	4.91
100 Wells Street, Chicago River	2.53	2.39	2.25	2.27	3.55	5.17	6.25	5.33	4.71	ND	ND
39 Madison Street, South Branch Chicago River	3.60	3.09	3.03	3.29	5.03	7.00	7.91	7.75	6.67	9.08	8.00
108 Loomis Street, South Branch Chicago River	3.43	2.96	3.17	3.35	5.52	6.83	8.00	7.00	6.22	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	3.76	3.81	3.34	3.27	5.44	7.08	7.83	8.17	8.50	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	3.68	2.93	3.15	3.37	5.52	6.67	7.67	ND	ND	12.78	8.00
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	7.58	6.90	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.51	3.13	3.24	3.75	5.08	7.00	7.33	7.50	6.58	8.58	7.25
41 Harlem Avenue, Chicago Sanitary & Ship Canal	4.32	3.56	3.80	4.16	5.92	7.50	8.25	7.92	7.25	9.75	8.45
42 Route 83, Chicago Sanitary & Ship Canal	4.27	3.56	4.19	4.39	6.05	8.17	8.00	8.83	7.67	12.55	8.83
48 Stephen Street, Chicago Sanitary & Ship Canal	4.37	3.68	4.20	4.54	6.32	7.75	7.92	8.67	7.92	10.09	9.36
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	4.44	3.60	4.34	4.40	6.01	8.00	8.29	8.26	7.59	9.62	ND
Calumet River System											
49 Ewing Avenue, Calumet River	1.74	1.29	1.48	1.43	1.77	3.40	3.17	3.75	3.25	6.67	4.00
50 Burnham Avenue, Wolf Lake	4.35	3.83	4.00	3.81	5.37	6.42	6.17	5.50	5.18	6.92	6.42
55 130th Street, Calumet River	3.00	2.31	2.75	2.62	3.39	4.55	4.70	4.92	4.73	6.27	5.61
86 Burnham Avenue, Grand Calumet River	6.76	8.99	17.54	7.45	9.27	12.33	12.90	11.36	9.90	14.18	12.18
56 Indiana Avenue, Little Calumet River	3.70	3.08	3.47	3.39	3.77	5.11	5.64	6.42	5.75	7.67	6.68
76 Halsted Street, Little Calumet River	4.44	4.07	4.19	4.40	5.90	7.67	8.45	8.33	7.50	10.92	9.26
52 Wentworth Avenue, Little Calumet River	6.61	5.54	6.22	9.02	8.54	12.22	11.60	10.73	10.18	12.82	11.64
54 Joe Orr Road, Thorn Creek	6.41	5.09	5.04	5.33	8.00	10.43	9.67	10.43	9.08	12.75	10.25
97 170th Street, Thorn Creek	5.59	4.53	5.22	6.26	6.72	9.27	9.60	9.17	9.10	ND	ND
57 Ashland Avenue, Little Calumet River	5.99	4.89	6.68	5.67	7.46	9.60	9.60	9.00	9.10	12.73	11.09
58 Ashland Avenue, Calumet-Sag Channel	4.70	4.19	4.60	4.65	6.04	8.00	8.50	8.75	8.25	11.58	9.42
59 Cicero Avenue, Calumet-Sag Channel	4.71	4.21	4.55	4.77	6.41	8.17	8.64	8.67	8.17	11.50	9.74
43 Route 83, Calumet-Sag Channel	4.70	4.03	4.64	4.77	6.54	8.00	8.55	8.25	8.25	17.25	9.37
Des Plaines River System											
90 Route 19, Poplar Creek	5.14	4.43	5.13	5.75	7.28	8.64	9.90	9.22	8.82	12.29	8.70
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	12.00	ND	12.75	13.78	12.67
89 Walnut Lane, West Branch DuPage River	6.53	6.23	6.73	6.83	9.55	12.45	11.91	11.75	11.17	12.75	11.45
64 Lake Street, West Branch DuPage River	6.18	5.26	6.05	6.23	8.65	10.09	10.83	10.25	10.64	12.64	10.73
79 Higgins Road, Salt Creek	6.03	4.72	5.27	5.60	8.42	9.45	9.56	10.00	9.20	11.40	10.50
80 Arlington Heights Road, Salt Creek	5.47	3.74	4.45	5.00	7.13	9.42	9.92	10.50	9.83	10.67	9.82
18 Devon Avenue, Salt Creek	5.33	3.67	4.49	4.90	6.86	9.58	10.08	9.80	9.42	10.58	9.91
24 Wolf Road, Salt Creek	4.77	3.58	4.07	4.68	6.73	8.27	8.67	8.45	8.33	10.80	8.64
109 Brookfield Avenue, Salt Creek	4.83	3.72	4.29	4.65	7.30	10.82	8.70	8.83	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	9.67	8.50	10.10	8.27
77 Elmhurst Road, Higgins Creek	5.28	3.62	4.66	5.13	7.75	11.00	10.40	9.83	10.09	11.80	10.82
78 Wille Road, Higgins Creek	5.12	4.83	5.03	5.59	7.94	10.55	10.25	9.83	9.92	12.08	10.18
12 Lake-Cook Road, Buffalo Creek	6.41	5.79	6.10	5.94	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	6.04	4.81	7.90	7.21	7.48	9.27	9.67	9.25	8.67	11.17	9.73
17 Oakton Street, Des Plaines River	6.06	4.75	5.98	5.40	7.38	8.73	9.40	9.55	8.83	11.40	9.82
19 Belmont Avenue, Des Plaines River	5.77	4.57	5.75	5.56	7.53	9.27	9.50	9.67	8.92	11.10	9.55
20 Roosevelt Road, Des Plaines River	5.85	4.82	5.74	5.52	7.28	9.36	9.00	9.33	8.75	11.20	9.91
22 Ogden Avenue, Des Plaines River	5.58	4.41	5.36	5.14	7.00	9.27	9.20	9.25	8.50	10.80	9.73
23 Willow Springs Road, Des Plaines River	5.55	4.29	6.02	5.20	7.11	8.82	9.10	9.00	9.67	10.40	9.27
29 Stephen Street, Des Plaines River	5.51	3.98	5.20	5.12	7.08	8.45	9.36	9.00	9.25	9.60	9.09
91 Material Service Road, Des Plaines River	5.41	3.99	5.45	5.09	7.19	8.45	8.92	8.83	8.63	11.46	ND
110 Springinguth Road, West Branch DuPage River	9.94	10.90	11.28	12.02	13.02	15.70	ND	ND	ND	ND	ND

ND = No Data.

**TABLE AII-76: FECAL COLIFORM MEAN HISTORY
1999 THROUGH 2009**

Sampling Station (No. Name)	Annual Means (fcu/100mL)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	2683	4000	ND
106 Dundee Road, West Fork North Branch Chicago River	1818	1453	2476	3196	1130	2494	3740	1344	1782	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1083	1133	660	893	727	622	839	704	854	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	586	1836	633	943	536	760	773	1143	767	1050	1697
104 Glenview Road, North Branch Chicago River	372	563	827	855	649	1326	777	904	1112	ND	ND
32 Lake-Cook Road, Skokie River	655	596	736	657	649	1042	546	718	1750	1131	1919
105 Frontage Road, Skokie River	169	151	199	119	160	159	225	357	490	ND	ND
34 Dempster Street, North Branch Chicago River	695	1069	600	1026	1121	996	1333	924	1377	1484	1498
96 Albany Avenue, North Branch Chicago River	420	653	520	860	1119	1029	1498	1508	2517	4238	ND
35 Central Street, North Shore Channel	80	168	66	90	144	330	291	483	356	270	130
102 Oakton Street, North Shore Channel	343	1627	638	1181	866	963	1487	1954	580	ND	ND
36 Touhy Avenue, North Shore Channel	8040	6892	8875	8550	11481	5518	7588	8349	4211	9424	7866
101 Foster Avenue, North Shore Channel	5021	7878	9612	7628	10290	6872	7917	10250	8703	ND	ND
37 Wilson Avenue, North Branch Chicago River	5461	5723	7479	6033	9748	5896	5940	7358	5958	7677	7686
73 Diversey Parkway, North Branch Chicago River	3818	4373	3608	4237	5799	3426	4228	5833	3832	5539	4607
46 Grand Avenue, North Branch Chicago River	1706	3414	1226	2054	1853	1583	2402	1919	1840	1715	1522
74 Lake Shore Drive, Chicago River	241	90	86	31	81	46	53	36	66	91	23
100 Wells Street, Chicago River	189	947	183	190	150	65	301	288	159	ND	ND
39 Madison Street, South Branch Chicago River	904	2921	922	892	921	680	799	800	1622	1090	642
108 Loomis Street, South Branch Chicago River	334	1427	371	445	297	179	181	253	325	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	384	1625	294	493	156	202	294	548	1530	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	283	940	349	523	223	164	173	ND	ND	160	282
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	180	393	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	202	649	347	469	129	104	153	245	303	154	327
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3321	4642	4908	3906	2668	2637	4314	3609	4126	5043	4970
42 Route 83, Chicago Sanitary & Ship Canal	573	1238	1289	1303	1011	935	866	460	1580	1046	886
48 Stephen Street, Chicago Sanitary & Ship Canal	448	992	645	894	469	386	345	419	812	537	781
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	216	255	227	308	205	186	179	159	291	256	ND
Calumet River System											
49 Ewing Avenue, Calumet River	11	13	12	11	12	11	12	12	20	18	12
50 Burnham Avenue, Wolf Lake	26	36	70	21	77	53	37	13	32	24	15
55 130th Street, Calumet River	9	25	19	24	37	26	32	19	82	53	23
86 Burnham Avenue, Grand Calumet River	1158	642	2448	420	2377	1104	1695	488	2056	3323	4100
56 Indiana Avenue, Little Calumet River	74	111	49	89	73	103	75	89	364	124	55
76 Halsted Street, Little Calumet River	2262	2891	3259	2159	2759	2775	2990	2024	2550	4774	3792
52 Wentworth Avenue, Little Calumet River	2935	1811	1477	956	1934	1284	2247	976	2211	3501	1701
54 Joe Orr Road, Thorn Creek	2335	1407	2411	3309	14257	1588	2922	1083	1083	2617	2173
97 170th Street, Thorn Creek	756	780	698	642	2119	1292	1347	637	1197	ND	ND
57 Ashland Avenue, Little Calumet River	563	783	816	431	3181	4103	2329	576	1623	3088	5189
58 Ashland Avenue, Calumet-Sag Channel	1407	2174	2122	1580	2365	2616	2135	1157	3095	3170	2660
59 Cicero Avenue, Calumet-Sag Channel	377	945	1178	539	857	1041	1105	471	1057	656	673
43 Route 83, Calumet-Sag Channel	106	108	188	97	57	147	103	93	298	79	87
Des Plaines River System											
90 Route 19, Poplar Creek	138	163	181	264	417	92	387	113	129	948	146
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	1400	ND	1075	2538	386
89 Walnut Lane, West Branch DuPage River	451	1103	2013	857	2026	1121	2181	1600	1273	1943	590
64 Lake Street, West Branch DuPage River	538	684	2406	949	2144	967	1731	1532	1739	1889	658
79 Higgins Road, Salt Creek	97	47	250	153	499	84	568	82	49	305	45
80 Arlington Heights Road, Salt Creek	184	377	312	417	389	529	678	303	426	623	265
18 Devon Avenue, Salt Creek	328	734	930	946	1014	1214	1668	939	1140	807	687
24 Wolf Road, Salt Creek	398	298	688	1303	1034	337	2012	440	507	1109	468
109 Brookfield Avenue, Salt Creek	615	663	1425	1618	1480	1499	3461	2056	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	782	599	1459	1320
77 Elmhurst Road, Higgins Creek	1296	857	2370	1915	1932	488	7317	2395	598	636	369
78 Wille Road, Higgins Creek	475	266	514	275	382	162	559	475	256	536	223
12 Lake-Cook Road, Buffalo Creek	99	248	823	236	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	193	247	310	362	650	240	566	284	269	440	350
17 Oakton Street, Des Plaines River	208	452	313	616	639	342	1128	345	492	915	765
19 Belmont Avenue, Des Plaines River	301	365	516	525	523	410	1021	709	440	734	1210
20 Roosevelt Road, Des Plaines River	511	523	634	897	950	662	1309	913	422	790	1224
22 Ogden Avenue, Des Plaines River	356	503	767	1509	1247	792	1023	900	519	1121	609
23 Willow Springs Road, Des Plaines River	217	187	302	1092	480	303	1664	351	232	835	367
29 Stephen Street, Des Plaines River	129	129	184	617	248	202	568	276	275	528	270
91 Material Service Road, Des Plaines River	83	78	192	327	260	135	564	122	367	295	ND
110 Springinguth Road, West Branch DuPage River	2621	3454	6187	3225	3763	2603	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-77: *ESCHERICHIA COLI* MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (fcu/100mL)										
	09	08	07	06	05	04	03	02	01	00	99
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	2068	1008	1800	2068	ND	2140	5099	ND	1232	ND	ND
103 Golf Road, West Fork North Branch Chicago River	968	507	347	374	943	451	380	506	541	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	466	1005	921	799	243	956	319	429	467	ND	ND
104 Glenview Road, North Branch Chicago River	240	353	266	291	443	432	180	254	629	ND	ND
32 Lake-Cook Road, Skokie River	344	312	527	147	515	579	418	581	905	ND	ND
105 Frontage Road, Skokie River	247	121	118	71	276	142	134	387	634	ND	ND
34 Dempster Street, North Branch Chicago River	343	446	386	840	734	604	1110	534	812	ND	ND
96 Albany Avenue, North Branch Chicago River	148	559	400	470	791	337	934	1553	9471	ND	ND
35 Central Street, North Shore Channel	53	231	44	222	78	267	271	4382	139	ND	ND
102 Oakton Street, North Shore Channel	362	2052	562	782	974	835	4035	1409	217	ND	ND
36 Touhy Avenue, North Shore Channel	6119	6748	8540	5772	10341	3302	7271	9539	861	ND	ND
101 Foster Avenue, North Shore Channel	4701	7533	12046	6040	10236	5652	8204	14164	8842	ND	ND
37 Wilson Avenue, North Branch Chicago River	5609	5922	9093	5411	9844	6376	7083	9158	3387	ND	ND
73 Diversey Parkway, North Branch Chicago River	4607	3816	3900	3231	7280	2569	4688	6747	2627	ND	ND
46 Grand Avenue, North Branch Chicago River	1599	3263	1197	1245	2667	1272	2882	2128	1123	ND	ND
74 Lake Shore Drive, Chicago River	38	55	81	16	24	49	44	20	24	ND	ND
100 Wells Street, Chicago River	93	411	169	184	119	49	231	307	175	ND	ND
39 Madison Street, South Branch Chicago River	973	1683	584	1253	461	463	427	565	417	ND	ND
108 Loomis Street, South Branch Chicago River	201	621	336	599	61	72	70	176	183	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	164	907	115	448	102	78	251	173	810	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	260	632	ND	ND	156	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	342	77	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	161	488	932	403	78	177	94	224	67	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1669	2877	5416	3330	2267	2567	2488	2925	3795	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	399	1007	867	1365	1340	553	787	715	2345	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	379	724	645	1049	796	407	322	530	922	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	175	457	251	316	148	128	81	177	69	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	10	10	10	10	12	10	14	10	10	ND	ND
50 Burnham Avenue, Wolf Lake	23	29	89	19	183	37	58	12	9	ND	ND
55 130th Street, Calumet River	14	23	12	16	57	15	90	14	10	ND	ND
86 Burnham Avenue, Grand Calumet River	1302	2342	682	262	11506	6199	6709	449	220	ND	ND
56 Indiana Avenue, Little Calumet River	257	77	29	181	63	48	142	101	228	ND	ND
76 Halsted Street, Little Calumet River	2486	2012	1929	2372	2838	2420	2787	1815	3240	ND	ND
52 Wentworth Avenue, Little Calumet River	1724	1090	2677	829	2278	3794	1169	846	3688	ND	ND
54 Joe Orr Road, Thorn Creek	1428	699	2611	2124	16399	1508	22000	721	1339	ND	ND
97 170th Street, Thorn Creek	815	697	1138	364	2442	1631	2984	529	2237	ND	ND
57 Ashland Avenue, Little Calumet River	285	1027	1530	288	5565	5967	2705	615	1622	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	943	1738	3512	1259	2253	2454	1264	690	2661	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	193	471	1793	396	797	1139	418	500	271	ND	ND
43 Route 83, Calumet-Sag Channel	46	86	822	24	60	218	39	75	145	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	118	149	148	514	775	42	103	82	251	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	1259	ND	ND
89 Walnut Lane, West Branch DuPage River	399	1836	720	675	2202	727	2139	1366	395	ND	ND
64 Lake Street, West Branch DuPage River	399	1472	1714	1451	2216	908	1357	1150	1102	ND	ND
79 Higgins Road, Salt Creek	63	109	114	22	158	89	423	61	34	ND	ND
80 Arlington Heights Road, Salt Creek	76	443	221	427	487	370	552	209	294	ND	ND
18 Devon Avenue, Salt Creek	134	1239	483	530	1202	1164	2722	1146	3950	ND	ND
24 Wolf Road, Salt Creek	232	278	286	711	1077	165	7589	336	30	ND	ND
109 Brookfield Avenue, Salt Creek	367	450	492	723	1289	2994	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	330	375	ND	ND
77 Elmhurst Road, Higgins Creek	660	220	1897	1217	890	268	5717	2097	687	ND	ND
78 Wille Road, Higgins Creek	315	186	221	207	1077	127	539	425	71	ND	ND
12 Lake-Cook Road, Buffalo Creek	117	109	287	216	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	320	218	274	398	684	77	223	569	163	ND	ND
17 Oakton Street, Des Plaines River	352	503	232	555	295	161	147	553	185	ND	ND
19 Belmont Avenue, Des Plaines River	399	323	271	839	439	458	277	1018	202	ND	ND
20 Roosevelt Road, Des Plaines River	953	391	457	1165	480	524	773	903	419	ND	ND
22 Ogden Avenue, Des Plaines River	579	681	667	1618	606	724	88	837	515	ND	ND
23 Willow Springs Road, Des Plaines River	295	110	268	855	169	202	1220	506	253	ND	ND
29 Stephen Street, Des Plaines River	197	118	165	431	186	122	117	641	273	ND	ND
91 Material Service Road, Des Plaines River	103	69	263	381	114	248	363	90	644	ND	ND
110 Springinguth Road, West Branch DuPage River	1719	1739	6129	2664	2794	2596	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-78: TOTAL CALCIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	106.6	80.3	ND
106 Dundee Road, West Fork North Branch Chicago River	68.2	71.1	73.6	62.0	70.3	85.3	54.9	79.0	79.8	ND	ND
103 Golf Road, West Fork North Branch Chicago River	66.4	68.2	75.5	73.9	80.8	71.5	70.9	72.8	71.0	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	57.6	62.1	64.2	62.9	65.6	64.3	64.1	71.9	74.2	66.0	69.1
104 Glenview Road, North Branch Chicago River	61.5	65.1	62.8	62.3	61.5	64.4	65.5	69.0	68.8	ND	ND
32 Lake-Cook Road, Skokie River	62.7	66.3	75.8	68.5	70.5	74.2	69.8	75.4	79.4	73.1	70.0
105 Frontage Road, Skokie River	62.2	64.3	62.8	62.1	62.0	63.2	59.9	67.7	66.2	ND	ND
34 Dempster Street, North Branch Chicago River	61.2	63.0	64.2	65.9	70.6	68.7	65.7	70.0	70.6	63.8	64.7
96 Albany Avenue, North Branch Chicago River	65.4	67.6	65.5	67.9	69.4	65.1	64.6	69.2	72.8	56.6	ND
35 Central Street, North Shore Channel	37.1	39.6	39.4	37.5	39.1	38.8	41.0	43.6	37.7	43.4	43.4
102 Oakton Street, North Shore Channel	47.2	47.6	49.3	47.7	47.8	45.8	50.4	51.9	42.6	ND	ND
36 Touhy Avenue, North Shore Channel	60.2	60.0	56.0	53.3	51.9	57.1	53.4	58.5	61.8	52.9	56.5
101 Foster Avenue, North Shore Channel	58.0	60.3	58.0	54.2	52.9	57.7	54.3	58.8	57.6	ND	ND
37 Wilson Avenue, North Branch Chicago River	57.9	61.0	59.1	56.4	55.7	59.8	56.4	60.9	63.9	55.6	57.8
73 Diversey Parkway, North Branch Chicago River	58.4	61.7	57.3	56.2	54.7	60.8	55.4	61.7	65.3	54.9	58.5
46 Grand Avenue, North Branch Chicago River	56.4	60.8	57.9	56.9	57.3	62.1	56.6	60.2	64.3	55.4	56.5
74 Lake Shore Drive, Chicago River	36.8	37.3	42.0	38.4	40.6	44.2	40.9	43.1	46.1	44.2	39.9
100 Wells Street, Chicago River	43.8	47.4	44.8	44.1	44.1	46.0	48.0	49.3	49.4	ND	ND
39 Madison Street, South Branch Chicago River	53.5	53.6	51.8	51.3	52.0	52.8	55.2	57.3	58.4	53.3	55.7
108 Loomis Street, South Branch Chicago River	55.1	53.9	52.7	53.6	54.3	52.0	52.8	56.8	51.5	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	52.1	56.8	50.3	51.2	51.9	53.3	52.5	56.7	58.0	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	53.5	53.9	52.3	53.8	52.9	53.1	53.4	ND	ND	53.0	56.5
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	57.8	56.1	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	52.9	56.8	53.3	51.2	54.5	55.1	52.1	59.9	55.7	53.3	54.4
41 Harlem Avenue, Chicago Sanitary & Ship Canal	56.9	58.5	56.2	54.8	54.2	54.6	53.8	57.3	59.6	54.3	56.8
42 Route 83, Chicago Sanitary & Ship Canal	57.0	57.5	56.0	56.3	56.4	56.5	56.6	58.7	59.8	53.6	54.9
48 Stephen Street, Chicago Sanitary & Ship Canal	56.4	60.1	58.3	59.0	60.1	59.8	58.7	61.6	63.4	58.5	57.4
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	57.8	60.8	59.1	58.4	59.5	59.9	59.0	62.6	63.8	57.3	ND
Calumet River System											
49 Ewing Avenue, Calumet River	35.9	34.9	37.3	35.9	36.5	37.1	38.6	41.1	40.2	39.7	39.5
50 Burnham Avenue, Wolf Lake	36.1	35.8	36.2	30.9	37.3	36.6	35.3	35.9	34.5	34.3	32.5
55 130th Street, Calumet River	43.3	42.6	46.3	42.6	43.4	43.2	43.4	47.2	48.8	44.9	43.4
86 Burnham Avenue, Grand Calumet River	82.4	96.3	92.0	98.0	68.3	82.5	86.9	79.6	85.6	73.3	71.0
56 Indiana Avenue, Little Calumet River	50.2	50.8	55.0	49.6	47.8	49.2	52.0	58.6	52.5	49.7	50.4
76 Halsted Street, Little Calumet River	62.5	68.1	66.3	65.8	63.1	62.1	62.2	64.8	71.1	63.6	62.1
52 Wentworth Avenue, Little Calumet River	75.1	89.9	79.9	88.1	74.4	86.4	96.3	94.5	82.8	85.9	75.0
54 Joe Orr Road, Thorn Creek	75.7	83.8	78.7	85.4	76.0	80.8	64.1	85.5	85.5	72.8	75.6
97 170th Street, Thorn Creek	75.8	87.0	71.6	87.7	83.0	84.0	80.6	100.8	88.6	ND	ND
57 Ashland Avenue, Little Calumet River	70.9	82.3	69.8	86.4	75.4	78.9	84.3	86.5	79.0	84.5	75.2
58 Ashland Avenue, Calumet-Sag Channel	61.8	68.4	61.8	68.3	65.3	65.4	66.2	73.7	76.2	67.1	64.0
59 Cicero Avenue, Calumet-Sag Channel	61.8	67.9	61.8	71.3	65.4	66.4	64.8	68.2	72.7	68.1	65.2
43 Route 83, Calumet-Sag Channel	61.0	66.5	61.8	69.4	64.7	63.1	65.3	69.8	72.5	70.4	66.1
Des Plaines River System											
90 Route 19, Poplar Creek	67.3	73.1	68.5	70.9	65.6	76.3	61.3	77.0	78.0	64.8	74.1
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	59.8	ND	99.6	63.8	76.9
89 Walnut Lane, West Branch DuPage River	66.1	63.6	61.6	65.8	58.5	64.5	55.8	63.1	67.8	59.3	61.9
64 Lake Street, West Branch DuPage River	65.0	67.3	58.8	63.7	59.7	70.4	55.6	65.0	69.3	59.9	60.9
79 Higgins Road, Salt Creek	62.2	70.2	63.5	63.3	65.9	75.8	58.1	67.5	79.3	65.9	60.0
80 Arlington Heights Road, Salt Creek	61.5	69.9	62.7	64.5	66.4	64.1	60.9	68.7	69.2	59.4	58.4
18 Devon Avenue, Salt Creek	60.7	69.4	63.0	65.4	66.4	64.4	58.9	68.2	68.9	58.8	60.1
24 Wolf Road, Salt Creek	68.5	70.9	65.1	64.0	66.1	69.7	59.2	73.7	75.3	67.7	66.9
109 Brookfield Avenue, Salt Creek	66.0	68.2	62.6	63.1	64.2	69.9	58.5	58.5	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	92.5	80.7	65.5	65.1
77 Elmhurst Road, Higgins Creek	51.0	62.4	44.5	54.3	60.1	73.7	48.3	63.2	79.6	62.4	67.5
78 Wille Road, Higgins Creek	79.1	76.6	71.0	69.4	69.2	70.9	63.4	74.4	80.9	67.6	72.3
12 Lake-Cook Road, Buffalo Creek	69.5	78.3	69.2	75.3	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	62.1	72.5	67.9	73.3	66.8	71.1	65.2	76.8	76.5	67.3	60.5
17 Oakton Street, Des Plaines River	61.2	70.7	64.2	69.1	66.6	72.2	64.1	75.6	81.1	67.1	63.7
19 Belmont Avenue, Des Plaines River	63.3	72.5	64.2	69.2	67.1	72.7	62.4	74.7	77.9	65.5	62.1
20 Roosevelt Road, Des Plaines River	61.6	72.4	63.9	68.6	65.8	71.0	60.9	74.7	75.4	64.2	61.5
22 Ogden Avenue, Des Plaines River	61.5	68.4	62.6	65.2	63.7	69.9	68.7	73.8	75.4	65.2	63.6
23 Willow Springs Road, Des Plaines River	61.8	69.7	62.7	64.5	66.1	69.7	61.7	70.8	75.5	66.0	62.6
29 Stephen Street, Des Plaines River	61.8	71.1	65.1	69.8	67.4	70.0	65.9	76.6	76.6	67.2	63.1
91 Material Service Road, Des Plaines River	63.6	69.8	66.3	71.0	68.3	71.1	65.6	74.9	73.0	69.3	ND
110 Springinguth Road, West Branch DuPage River	74.8	82.5	77.8	85.6	77.1	86.8	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-79: TOTAL MAGNESIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	46.1	32.8	ND
106 Dundee Road, West Fork North Branch Chicago River	28.2	29.7	28.1	25.7	29.0	35.4	23.6	34.0	37.7	ND	ND
103 Golf Road, West Fork North Branch Chicago River	26.4	26.3	29.7	29.7	32.2	27.6	28.3	30.5	31.6	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	24.6	25.7	28.7	28.9	33.1	29.2	29.2	33.0	33.9	30.0	31.6
104 Glenview Road, North Branch Chicago River	25.8	27.0	26.9	27.1	27.7	27.3	28.3	29.6	31.3	ND	ND
32 Lake-Cook Road, Skokie River	25.4	26.9	31.3	30.3	32.4	31.6	29.8	33.5	35.4	32.8	31.4
105 Frontage Road, Skokie River	26.1	26.5	26.3	26.5	27.2	26.9	25.3	29.2	30.5	ND	ND
34 Dempster Street, North Branch Chicago River	25.1	25.9	27.2	27.9	30.7	28.4	27.0	29.8	31.8	27.9	27.8
96 Albany Avenue, North Branch Chicago River	26.3	27.0	27.6	28.3	29.7	26.8	26.6	29.3	31.4	23.2	ND
35 Central Street, North Shore Channel	12.5	13.3	13.3	12.5	13.3	13.1	14.1	15.2	12.2	15.7	15.4
102 Oakton Street, North Shore Channel	16.4	16.2	16.9	16.7	16.9	15.8	17.5	17.9	14.4	ND	ND
36 Touhy Avenue, North Shore Channel	21.0	21.2	19.5	19.0	18.2	20.3	19.1	21.2	23.2	19.3	19.9
101 Foster Avenue, North Shore Channel	20.1	21.4	20.2	19.4	18.6	20.8	19.4	21.3	21.3	ND	ND
37 Wilson Avenue, North Branch Chicago River	20.8	22.4	21.3	20.9	20.1	22.2	20.5	22.8	25.1	21.0	21.5
73 Diversey Parkway, North Branch Chicago River	20.8	22.5	20.7	20.7	19.5	22.4	20.0	23.1	25.6	20.8	21.6
46 Grand Avenue, North Branch Chicago River	20.0	21.8	20.9	21.0	20.8	22.3	20.4	22.5	24.8	20.9	20.9
74 Lake Shore Drive, Chicago River	12.4	12.6	14.5	12.9	14.2	15.5	13.7	14.7	16.1	15.7	13.4
100 Wells Street, Chicago River	15.1	16.5	15.9	15.3	15.3	16.3	16.7	17.4	18.0	ND	ND
39 Madison Street, South Branch Chicago River	19.1	19.1	18.4	18.6	18.6	19.0	19.9	21.1	22.2	19.4	20.5
108 Loomis Street, South Branch Chicago River	19.8	19.4	18.7	19.6	19.8	19.0	18.8	21.0	19.0	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	18.1	20.1	17.7	18.4	18.5	19.2	18.7	20.6	21.7	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	19.5	19.4	18.6	19.6	19.2	19.3	19.1	ND	ND	20.0	21.3
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	21.4	21.2	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	18.7	20.7	18.9	18.3	19.7	19.9	18.5	21.9	21.3	19.7	20.3
41 Harlem Avenue, Chicago Sanitary & Ship Canal	20.0	21.0	19.8	19.9	19.6	19.9	19.2	21.1	23.1	20.1	21.0
42 Route 83, Chicago Sanitary & Ship Canal	20.1	20.5	20.2	20.4	20.5	20.6	20.2	21.8	23.0	19.8	20.2
48 Stephen Street, Chicago Sanitary & Ship Canal	19.9	21.4	21.2	21.5	22.2	21.9	21.3	22.9	24.6	21.9	21.2
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	20.6	21.6	21.3	21.3	21.8	22.0	21.4	23.0	24.9	21.8	ND
Calumet River System											
49 Ewing Avenue, Calumet River	11.7	11.2	12.1	11.5	12.1	12.3	12.8	13.2	13.1	13.1	13.4
50 Burnham Avenue, Wolf Lake	11.8	11.9	12.1	11.9	13.7	13.4	13.2	14.4	12.6	13.0	13.2
55 130th Street, Calumet River	14.4	14.0	15.8	14.2	15.0	14.8	14.8	15.9	16.8	15.5	15.0
86 Burnham Avenue, Grand Calumet River	36.9	39.0	39.3	48.7	44.4	53.9	65.6	67.1	57.1	57.7	54.5
56 Indiana Avenue, Little Calumet River	17.2	17.3	19.8	17.6	17.8	18.5	19.2	23.8	20.1	22.3	21.6
76 Halsted Street, Little Calumet River	21.5	23.2	22.8	22.6	22.3	22.0	21.5	23.0	26.5	23.4	22.4
52 Wentworth Avenue, Little Calumet River	28.4	34.3	31.4	33.9	29.7	34.3	37.2	38.4	33.6	35.3	40.1
54 Joe Orr Road, Thorn Creek	28.2	30.4	30.1	36.3	33.8	33.9	26.5	38.4	39.3	34.2	36.3
97 170th Street, Thorn Creek	29.9	33.9	28.4	37.7	36.6	36.7	34.6	49.1	41.3	ND	ND
57 Ashland Avenue, Little Calumet River	27.0	31.2	27.0	35.3	31.6	32.5	35.0	37.3	35.1	38.8	33.8
58 Ashland Avenue, Calumet-Sag Channel	21.6	23.6	21.8	24.2	23.8	23.8	24.2	27.9	28.3	26.0	24.5
59 Cicero Avenue, Calumet-Sag Channel	22.1	23.8	21.8	25.8	23.8	24.7	23.7	25.4	27.7	26.4	24.8
43 Route 83, Calumet-Sag Channel	21.9	23.6	22.4	25.4	23.7	23.6	24.1	26.0	27.8	26.9	25.4
Des Plaines River System											
90 Route 19, Poplar Creek	28.7	31.8	30.3	30.6	29.8	34.4	27.5	34.6	36.7	31.3	36.5
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	22.3	ND	41.5	24.1	51.0
89 Walnut Lane, West Branch DuPage River	25.1	24.0	23.0	24.3	22.0	23.9	20.2	23.9	26.8	23.7	24.7
64 Lake Street, West Branch DuPage River	24.4	25.1	22.3	23.6	22.3	26.2	20.3	24.8	27.8	23.6	24.0
79 Higgins Road, Salt Creek	26.3	28.5	26.2	26.4	29.5	31.4	23.2	31.2	36.7	28.9	27.8
80 Arlington Heights Road, Salt Creek	23.3	26.2	24.3	24.9	25.9	24.4	23.4	27.0	28.6	24.1	23.5
18 Devon Avenue, Salt Creek	23.0	26.0	24.5	25.2	25.7	24.5	22.7	26.6	28.5	23.6	24.1
24 Wolf Road, Salt Creek	26.6	27.6	26.0	25.6	27.3	28.2	23.3	30.1	32.5	28.3	28.7
109 Brookfield Avenue, Salt Creek	25.8	26.7	25.1	25.3	26.7	28.3	23.2	24.0	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	37.4	34.6	27.7	28.0
77 Elmhurst Road, Higgins Creek	18.2	20.3	14.5	18.5	20.1	26.3	15.6	22.5	32.5	22.9	28.5
78 Wille Road, Higgins Creek	28.9	27.9	25.6	25.1	25.6	26.2	22.8	27.9	32.6	25.8	28.2
12 Lake-Cook Road, Buffalo Creek	29.5	33.4	30.4	33.1	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	27.3	31.3	30.0	32.7	29.6	31.8	28.7	35.1	36.1	31.6	27.7
17 Oakton Street, Des Plaines River	26.4	30.0	28.5	30.7	29.9	32.5	27.9	33.9	37.7	30.7	28.6
19 Belmont Avenue, Des Plaines River	26.8	30.1	27.7	29.7	29.1	31.1	25.9	33.0	35.8	29.7	27.6
20 Roosevelt Road, Des Plaines River	26.2	30.1	27.7	29.3	28.7	31.4	25.5	33.0	35.0	29.3	27.6
22 Ogden Avenue, Des Plaines River	25.7	28.1	26.6	27.3	27.5	30.1	27.8	31.6	33.8	29.1	28.4
23 Willow Springs Road, Des Plaines River	26.0	29.0	26.9	27.4	28.8	30.3	25.9	31.0	34.4	29.7	28.3
29 Stephen Street, Des Plaines River	25.8	29.1	28.2	29.5	29.2	30.2	27.4	32.7	35.7	30.0	28.0
91 Material Service Road, Des Plaines River	26.3	28.9	28.2	30.3	29.9	30.9	27.5	32.5	32.8	31.0	ND
110 Springinguth Road, West Branch DuPage River	27.1	29.8	28.3	30.4	28.0	31.9	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-80: HARDNESS MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	456	335	ND
106 Dundee Road, West Fork North Branch Chicago River	286	300	300	261	295	359	234	337	354	ND	ND
103 Golf Road, West Fork North Branch Chicago River	274	278	311	307	335	292	294	307	307	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	245	261	278	276	300	281	280	316	325	288	303
104 Glenview Road, North Branch Chicago River	260	274	268	267	268	273	280	294	301	ND	ND
32 Lake-Cook Road, Skokie River	261	276	318	296	310	316	297	326	344	318	304
105 Frontage Road, Skokie River	263	270	265	264	267	269	254	289	291	ND	ND
34 Dempster Street, North Branch Chicago River	256	264	272	279	303	289	275	297	307	274	276
96 Albany Avenue, North Branch Chicago River	272	280	277	286	296	273	271	293	311	237	ND
35 Central Street, North Shore Channel	144	154	153	145	153	151	160	171	144	173	172
102 Oakton Street, North Shore Channel	185	186	193	188	189	179	198	203	166	ND	ND
36 Touhy Avenue, North Shore Channel	237	237	220	211	205	226	212	233	250	211	223
101 Foster Avenue, North Shore Channel	228	239	228	215	209	229	215	235	231	ND	ND
37 Wilson Avenue, North Branch Chicago River	230	244	235	227	222	241	225	246	263	225	233
73 Diversey Parkway, North Branch Chicago River	231	247	228	226	217	244	221	249	268	223	235
46 Grand Avenue, North Branch Chicago River	223	242	231	229	229	247	226	243	263	224	227
74 Lake Shore Drive, Chicago River	143	145	165	149	160	174	159	168	182	175	155
100 Wells Street, Chicago River	172	187	177	173	173	182	189	195	198	ND	ND
39 Madison Street, South Branch Chicago River	212	212	205	205	207	210	219	230	237	213	223
108 Loomis Street, South Branch Chicago River	219	214	209	214	217	208	209	228	207	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	205	225	198	204	206	212	208	226	234	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	214	214	207	215	211	212	212	ND	ND	214	229
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	233	228	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	209	227	211	203	217	219	206	240	227	214	219
41 Harlem Avenue, Chicago Sanitary & Ship Canal	224	233	222	219	216	218	213	230	244	218	228
42 Route 83, Chicago Sanitary & Ship Canal	225	228	223	225	225	226	225	236	244	215	220
48 Stephen Street, Chicago Sanitary & Ship Canal	223	238	233	236	241	240	234	248	260	236	230
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	229	241	236	234	238	240	235	251	262	233	ND
Calumet River System											
49 Ewing Avenue, Calumet River	138	133	143	137	141	143	149	157	154	153	154
50 Burnham Avenue, Wolf Lake	139	138	140	126	149	146	143	149	138	139	136
55 130th Street, Calumet River	167	164	181	165	170	169	169	183	191	176	170
86 Burnham Avenue, Grand Calumet River	358	401	391	445	354	428	487	475	449	421	402
56 Indiana Avenue, Little Calumet River	196	198	219	196	193	199	209	244	214	216	215
76 Halsted Street, Little Calumet River	245	266	259	258	249	246	244	256	287	255	247
52 Wentworth Avenue, Little Calumet River	304	366	329	360	308	357	393	394	345	360	352
54 Joe Orr Road, Thorn Creek	305	335	321	363	329	341	269	371	375	323	338
97 170th Street, Thorn Creek	312	357	296	374	358	361	344	454	391	ND	ND
57 Ashland Avenue, Little Calumet River	288	334	285	361	318	331	355	370	342	371	327
58 Ashland Avenue, Calumet-Sag Channel	243	268	244	270	261	261	265	299	307	275	261
59 Cicero Avenue, Calumet-Sag Channel	245	268	244	284	261	268	260	275	296	279	265
43 Route 83, Calumet-Sag Channel	243	263	247	278	259	255	262	282	295	286	270
Des Plaines River System											
90 Route 19, Poplar Creek	286	314	296	303	287	332	266	335	346	291	335
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	241	ND	419	258	402
89 Walnut Lane, West Branch DuPage River	268	258	249	265	237	260	222	256	280	246	256
64 Lake Street, West Branch DuPage River	263	271	239	256	241	283	222	264	287	247	251
79 Higgins Road, Salt Creek	264	292	266	267	286	319	241	297	349	284	264
80 Arlington Heights Road, Salt Creek	249	282	257	263	273	261	248	283	290	248	242
18 Devon Avenue, Salt Creek	246	280	258	267	272	262	241	280	289	244	249
24 Wolf Road, Salt Creek	280	291	269	265	277	290	244	308	322	286	285
109 Brookfield Avenue, Salt Creek	271	280	260	262	270	291	242	245	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	385	344	277	278
77 Elmhurst Road, Higgins Creek	203	239	171	212	233	292	185	250	332	250	286
78 Wille Road, Higgins Creek	317	306	283	277	278	285	252	301	336	275	297
12 Lake-Cook Road, Buffalo Creek	295	333	298	324	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	267	310	293	318	289	308	281	336	340	298	265
17 Oakton Street, Des Plaines River	261	300	278	299	289	314	275	328	358	294	277
19 Belmont Avenue, Des Plaines River	268	305	274	295	287	310	263	322	342	286	269
20 Roosevelt Road, Des Plaines River	262	305	273	292	283	307	257	323	333	281	267
22 Ogden Avenue, Des Plaines River	259	287	266	275	272	298	286	314	327	282	276
23 Willow Springs Road, Des Plaines River	261	293	268	274	284	299	260	305	330	287	273
29 Stephen Street, Des Plaines River	261	297	279	295	288	299	278	326	338	291	273
91 Material Service Road, Des Plaines River	267	293	282	302	293	305	277	321	317	301	ND
110 Springinguth Road, West Branch DuPage River	298	329	311	339	308	348	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-81: GROSS ALPHA RADIOACTIVITY MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (pCi/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	4.53	2.95	11.71	6.01	6.20	6.38	3.79	4.49	4.77	ND	ND
103 Golf Road, West Fork North Branch Chicago River	4.20	2.59	7.08	5.73	7.14	4.36	4.80	4.41	4.67	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	2.76	2.78	5.25	4.94	5.34	4.74	4.53	3.82	6.05	ND	ND
104 Glenview Road, North Branch Chicago River	3.62	2.35	5.37	5.40	5.50	4.19	4.47	3.72	4.57	ND	ND
32 Lake-Cook Road, Skokie River	2.71	2.65	5.29	5.04	5.50	4.51	4.34	3.78	4.86	ND	ND
105 Frontage Road, Skokie River	3.32	2.28	5.13	4.82	5.03	4.26	3.87	3.79	4.53	ND	ND
34 Dempster Street, North Branch Chicago River	3.61	2.38	6.56	5.01	5.91	4.84	4.92	4.15	4.88	ND	ND
96 Albany Avenue, North Branch Chicago River	3.93	2.71	6.03	5.04	5.43	4.01	4.25	4.39	4.71	ND	ND
35 Central Street, North Shore Channel	1.62	1.36	3.85	3.07	3.30	3.00	3.43	3.40	3.45	4.23	3.40
102 Oakton Street, North Shore Channel	2.57	1.60	4.29	3.56	4.07	3.23	3.67	3.64	4.03	ND	ND
36 Touhy Avenue, North Shore Channel	3.25	2.03	5.27	3.73	4.27	3.62	3.54	3.72	4.29	4.21	3.49
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	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	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
74 Lake Shore Drive, Chicago River	1.64	1.27	4.29	3.09	3.23	3.43	3.14	3.27	4.01	ND	ND
100 Wells Street, Chicago River	2.57	1.73	4.27	3.41	3.61	3.44	3.41	3.45	4.25	ND	ND
39 Madison Street, South Branch Chicago River	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
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	ND	ND	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	4.73	2.08	5.40	3.84	4.17	3.87	3.67	3.70	4.32	4.22	3.96
41 Harlem Avenue, Chicago Sanitary & Ship Canal	2.96	2.26	6.13	3.88	4.27	3.93	3.49	3.66	4.49	4.26	3.64
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.36	3.57
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.25	3.53
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	3.79	2.44	4.89	4.08	4.53	4.00	3.62	3.83	4.50	4.44	ND
Calumet River System											
49 Ewing Avenue, Calumet River	1.94	1.37	4.14	3.66	3.03	2.90	3.22	3.00	3.79	ND	ND
50 Burnham Avenue, Wolf Lake	1.81	1.41	4.16	3.44	3.33	2.94	3.12	2.95	3.44	ND	ND
55 130th Street, Calumet River	2.58	1.72	4.70	3.49	3.50	3.17	3.50	3.30	3.76	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	2.82	1.93	5.08	3.65	3.56	3.43	3.76	3.57	4.25	4.30	3.51
76 Halsted Street, Little Calumet River	2.77	2.35	5.28	4.08	4.66	3.68	3.99	3.72	4.34	4.39	3.70
52 Wentworth Avenue, Little Calumet River	2.84	2.62	5.63	4.24	4.88	3.80	4.59	4.46	4.43	ND	ND
54 Joe Orr Road, Thorn Creek	4.56	3.98	7.27	6.25	8.99	6.72	4.00	8.21	5.73	ND	ND
97 170th Street, Thorn Creek	4.30	3.13	6.27	5.38	7.46	6.43	6.15	5.67	4.99	ND	ND
57 Ashland Avenue, Little Calumet River	3.88	2.69	5.46	5.09	6.19	4.35	4.73	4.68	4.63	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	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
43 Route 83, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.41	3.62
Des Plaines River System											
90 Route 19, Poplar Creek	3.04	2.49	5.25	5.66	5.19	4.76	3.92	4.37	5.63	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	3.57	ND	5.23	4.21	4.14
89 Walnut Lane, West Branch DuPage River	3.29	2.38	4.82	4.98	4.77	4.32	3.78	4.07	4.53	4.13	3.59
64 Lake Street, West Branch DuPage River	3.05	2.44	4.85	5.10	5.06	4.51	3.69	4.18	4.91	ND	ND
79 Higgins Road, Salt Creek	3.34	2.90	5.39	5.27	6.27	5.20	4.65	4.23	5.54	4.37	3.64
80 Arlington Heights Road, Salt Creek	2.84	2.46	5.18	5.59	5.71	4.59	4.28	4.00	5.07	4.19	3.53
18 Devon Avenue, Salt Creek	2.75	2.44	5.17	5.51	5.85	4.59	4.28	3.97	5.06	ND	ND
24 Wolf Road, Salt Creek	3.41	2.66	5.45	5.00	4.81	4.52	4.32	4.79	4.45	ND	ND
109 Brookfield Avenue, Salt Creek	4.66	2.77	5.46	5.20	4.76	4.55	4.26	3.38	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	7.16	4.98	ND	ND
77 Elmhurst Road, Higgins Creek	2.37	2.76	5.20	6.74	7.77	5.90	4.54	6.04	5.82	4.42	3.77
78 Wille Road, Higgins Creek	3.50	2.38	5.28	4.78	4.79	4.19	3.98	4.43	5.44	4.24	3.69
12 Lake-Cook Road, Buffalo Creek	3.11	2.75	5.67	5.13	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	2.88	2.41	5.22	4.86	5.27	4.08	4.04	4.10	5.26	ND	ND
17 Oakton Street, Des Plaines River	2.50	2.49	5.35	4.97	5.30	4.27	4.08	4.50	5.26	ND	ND
19 Belmont Avenue, Des Plaines River	3.08	2.64	5.33	5.06	5.46	4.09	4.15	4.56	4.69	ND	ND
20 Roosevelt Road, Des Plaines River	2.30	2.43	5.36	5.29	5.02	4.43	4.15	4.92	4.80	ND	ND
22 Ogden Avenue, Des Plaines River	3.23	2.91	5.54	4.95	5.07	4.10	4.25	4.62	4.83	ND	ND
23 Willow Springs Road, Des Plaines River	3.10	2.47	5.25	5.06	4.93	4.21	4.19	4.17	4.85	ND	ND
29 Stephen Street, Des Plaines River	3.22	2.85	5.24	5.40	4.93	4.19	4.29	4.74	4.86	ND	ND
91 Material Service Road, Des Plaines River	3.43	3.50	5.11	4.84	5.70	4.72	4.19	4.13	5.12	4.54	ND
110 Springinguth Road, West Branch DuPage River	3.90	3.26	6.14	7.04	6.48	5.09	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-82: GROSS BETA RADIOACTIVITY MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (pCi/L)											
	09	08	07	06	05	04	03	02	01	00	99	
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	7.18	7.85	11.96	11.59	11.58	16.75	8.90	8.00	11.92	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	6.97	4.53	9.70	9.95	11.05	11.05	10.27	9.99	7.77	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	5.56	6.34	6.66	7.40	7.15	7.41	7.37	6.64	7.80	ND	ND	ND
104 Glenview Road, North Branch Chicago River	6.32	4.70	7.18	9.08	11.27	9.48	8.90	12.84	7.59	ND	ND	ND
32 Lake-Cook Road, Skokie River	5.40	4.65	5.94	8.19	8.83	7.13	7.35	6.70	6.56	ND	ND	ND
105 Frontage Road, Skokie River	6.50	4.67	8.18	9.65	10.79	9.60	9.93	8.46	7.77	ND	ND	ND
34 Dempster Street, North Branch Chicago River	5.74	4.61	9.02	9.39	11.51	8.93	10.17	9.49	7.41	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	6.02	4.47	8.16	7.91	10.61	9.09	9.53	8.47	7.24	ND	ND	ND
35 Central Street, North Shore Channel	5.08	1.92	4.89	4.50	4.28	4.48	4.82	6.79	4.44	6.67	5.97	5.97
102 Oakton Street, North Shore Channel	5.40	3.79	5.91	6.97	6.88	5.78	6.45	6.70	5.43	ND	ND	ND
36 Touhy Avenue, North Shore Channel	6.29	4.64	7.70	7.91	7.88	8.29	7.70	7.94	7.12	11.30	8.46	8.46
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	4.94	2.06	4.73	4.54	4.29	5.52	4.80	4.87	5.82	ND	ND	ND
100 Wells Street, Chicago River	5.04	3.51	5.22	5.22	5.60	6.57	6.36	5.36	7.03	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	5.64	5.86	7.36	6.87	7.38	8.91	8.13	6.80	8.01	9.05	7.36	7.36
41 Harlem Avenue, Chicago Sanitary & Ship Canal	6.32	6.55	9.43	8.29	7.98	8.92	8.38	6.66	8.32	9.33	9.18	9.18
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.04	9.32
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.65	10.26	10.26
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	6.81	6.23	8.06	8.21	8.70	9.03	9.22	8.31	7.93	9.11	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	4.72	2.69	5.42	5.39	4.99	4.77	3.99	4.31	4.92	ND	ND	ND
50 Burnham Avenue, Wolf Lake	5.49	4.30	7.02	6.10	4.94	7.01	4.81	4.77	4.89	ND	ND	ND
55 130th Street, Calumet River	5.66	4.14	7.24	6.50	6.14	6.79	6.10	5.72	6.36	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	5.59	5.31	7.77	7.82	6.63	6.99	7.48	6.80	8.20	7.59	7.07	7.07
76 Halsted Street, Little Calumet River	6.66	6.83	8.74	8.96	9.11	8.41	9.54	9.00	7.44	10.27	9.25	9.25
52 Wentworth Avenue, Little Calumet River	5.99	6.96	10.56	10.37	10.90	12.00	12.91	12.46	9.42	ND	ND	ND
54 Joe Orr Road, Thorn Creek	8.36	7.63	8.90	10.91	14.81	12.20	10.77	12.05	7.95	ND	ND	ND
97 170th Street, Thorn Creek	8.02	7.64	10.69	10.72	13.04	11.68	12.14	12.41	8.40	ND	ND	ND
57 Ashland Avenue, Little Calumet River	6.86	7.82	9.52	10.20	11.25	10.88	10.93	10.76	8.89	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	9.40	8.97	8.97
Des Plaines River System												
90 Route 19, Poplar Creek	5.83	3.48	6.26	7.25	6.75	5.59	6.76	5.70	5.91	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	5.41	ND	7.02	7.30	8.49	8.49
89 Walnut Lane, West Branch DuPage River	9.31	7.04	9.37	9.90	10.62	9.17	10.50	10.82	9.50	9.61	10.64	10.64
64 Lake Street, West Branch DuPage River	8.23	7.51	9.31	10.36	10.94	10.71	10.56	10.72	10.14	ND	ND	ND
79 Higgins Road, Salt Creek	5.91	4.27	7.55	7.71	8.35	8.15	8.41	8.09	7.05	7.01	6.06	6.06
80 Arlington Heights Road, Salt Creek	6.24	5.33	9.10	10.09	10.26	9.43	9.54	9.12	9.32	9.75	11.95	11.95
18 Devon Avenue, Salt Creek	6.61	5.24	9.40	9.35	11.03	9.86	10.54	9.77	8.27	ND	ND	ND
24 Wolf Road, Salt Creek	7.12	6.85	9.29	11.12	11.39	9.45	10.43	10.71	9.13	ND	ND	ND
109 Brookfield Avenue, Salt Creek	7.30	7.67	8.92	10.50	10.71	8.96	9.41	10.31	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	10.68	9.41	ND	ND	ND
77 Elmhurst Road, Higgins Creek	4.99	3.74	6.99	8.79	11.23	8.33	9.76	8.82	7.32	7.37	7.18	7.18
78 Wille Road, Higgins Creek	7.56	7.43	11.79	12.65	15.45	13.34	13.15	15.24	15.72	16.49	16.83	16.83
12 Lake-Cook Road, Buffalo Creek	5.44	3.78	8.20	7.37	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	7.12	6.05	8.94	10.05	11.41	9.53	10.71	9.94	8.21	ND	ND	ND
17 Oakton Street, Des Plaines River	6.18	5.05	8.40	9.12	10.16	9.23	10.61	9.39	7.81	ND	ND	ND
19 Belmont Avenue, Des Plaines River	5.57	5.54	9.81	10.24	11.57	9.77	10.62	10.73	8.37	ND	ND	ND
20 Roosevelt Road, Des Plaines River	6.23	6.16	9.70	9.69	10.91	8.99	10.23	10.38	7.89	ND	ND	ND
22 Ogden Avenue, Des Plaines River	7.07	8.05	9.27	9.32	11.04	9.51	9.44	10.33	7.92	ND	ND	ND
23 Willow Springs Road, Des Plaines River	6.19	7.96	8.01	9.51	10.68	9.37	9.32	10.28	8.78	ND	ND	ND
29 Stephen Street, Des Plaines River	6.25	7.55	9.48	10.39	10.87	9.16	10.23	10.53	8.36	ND	ND	ND
91 Material Service Road, Des Plaines River	7.02	6.48	9.94	9.65	12.34	9.48	10.75	9.88	8.77	9.21	ND	ND
110 Springinguth Road, West Branch DuPage River	5.60	4.87	7.41	8.04	8.52	8.22	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-83: CHLOROPHYLL *a* MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	09	08	07	06	05	04	03	02	01	00	99
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	7.2	14.4	6.3	10.6	14.6	29.1	47.9	9.6	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	7.5	9.1	12.4	13.4	29.3	21.1	19.0	14.4	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	5.1	10.6	7.7	12.0	8.0	6.7	11.1	11.6	ND	ND	ND
104 Glenview Road, North Branch Chicago River	5.9	10.6	12.2	19.7	10.1	12.1	32.9	18.1	ND	ND	ND
32 Lake-Cook Road, Skokie River	6.2	8.3	8.9	7.6	12.0	22.5	10.3	11.5	ND	ND	ND
105 Frontage Road, Skokie River	9.7	18.4	18.1	32.9	15.6	20.4	21.5	21.5	ND	ND	ND
34 Dempster Street, North Branch Chicago River	5.6	8.7	9.7	16.7	24.2	15.8	16.7	16.2	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	7.1	7.8	9.0	14.0	35.6	21.5	18.1	11.7	ND	ND	ND
35 Central Street, North Shore Channel	9.9	6.3	6.2	4.5	3.6	2.9	8.1	12.5	ND	ND	ND
102 Oakton Street, North Shore Channel	11.3	12.6	16.2	22.6	8.1	12.5	4.8	17.0	ND	ND	ND
36 Touhy Avenue, North Shore Channel	2.0	2.1	1.3	2.0	1.6	1.4	1.2	1.5	ND	ND	ND
101 Foster Avenue, North Shore Channel	1.9	1.4	1.1	1.6	2.2	1.9	4.3	1.9	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	2.8	3.2	2.9	4.7	2.8	4.0	4.9	4.9	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	2.2	3.6	2.4	4.3	2.6	3.8	4.7	3.9	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	2.7	3.5	4.9	6.1	4.3	5.8	5.7	3.6	ND	ND	ND
74 Lake Shore Drive, Chicago River	1.3	1.6	2.2	1.4	3.3	4.7	3.2	2.7	ND	ND	ND
100 Wells Street, Chicago River	1.6	2.5	2.2	2.5	2.8	3.0	3.7	3.0	ND	ND	ND
39 Madison Street, South Branch Chicago River	1.9	3.5	4.0	4.4	4.2	4.1	5.2	4.6	ND	ND	ND
108 Loomis Street, South Branch Chicago River	2.0	3.0	3.7	6.0	5.4	7.2	6.1	3.4	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	8.9	10.5	7.4	5.7	21.5	27.4	9.5	9.2	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.7	3.4	4.5	5.4	14.1	7.9	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	3.0	4.1	5.4	4.7	6.5	6.0	6.3	5.0	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.9	2.3	2.6	2.8	3.6	3.4	2.7	2.4	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	2.9	4.1	5.2	4.1	6.4	4.2	4.4	4.2	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	5.2	5.6	6.1	3.7	5.3	3.5	7.2	3.9	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	5.6	5.4	5.5	4.0	5.2	3.9	7.2	5.3	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	2.1	1.7	1.1	1.4	0.9	1.4	1.6	1.7	ND	ND	ND
50 Burnham Avenue, Wolf Lake	5.4	6.7	6.2	4.7	6.8	4.8	8.7	3.8	ND	ND	ND
55 130th Street, Calumet River	6.3	4.6	4.0	3.3	2.9	4.0	7.1	9.9	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	30.8	142.5	101.0	27.4	57.7	61.9	38.1	31.1	ND	ND	ND
56 Indiana Avenue, Little Calumet River	27.0	20.6	14.0	25.8	16.4	7.2	24.4	26.4	ND	ND	ND
76 Halsted Street, Little Calumet River	12.6	7.8	6.6	8.1	7.1	3.8	10.3	9.1	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	7.7	5.5	13.0	4.3	6.0	5.5	9.0	5.7	ND	ND	ND
54 Joe Orr Road, Thorn Creek	4.8	4.1	3.0	3.7	12.4	6.7	8.5	9.2	ND	ND	ND
97 170th Street, Thorn Creek	9.4	8.5	9.2	5.3	8.2	8.8	11.5	10.4	ND	ND	ND
57 Ashland Avenue, Little Calumet River	10.5	8.2	7.1	4.7	9.2	7.5	10.0	11.2	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	11.3	8.0	7.2	9.5	10.4	4.8	15.3	11.5	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	12.4	7.9	7.8	9.0	7.5	5.2	20.3	11.8	ND	ND	ND
43 Route 83, Calumet-Sag Channel	9.0	10.0	6.5	6.3	8.8	4.4	24.5	15.8	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	9.0	8.9	10.9	13.9	12.5	8.1	14.6	15.9	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	5.9	6.6	7.3	5.4	9.1	3.7	9.0	5.9	ND	ND	ND
64 Lake Street, West Branch DuPage River	18.8	19.4	23.2	20.2	24.6	15.4	29.5	24.9	ND	ND	ND
79 Higgins Road, Salt Creek	21.3	33.9	39.0	33.9	31.0	36.4	37.4	30.6	ND	ND	ND
80 Arlington Heights Road, Salt Creek	13.6	11.7	13.8	16.5	12.4	11.2	18.6	12.9	ND	ND	ND
18 Devon Avenue, Salt Creek	15.0	13.6	14.3	17.6	14.8	15.7	19.5	16.2	ND	ND	ND
24 Wolf Road, Salt Creek	8.0	8.9	7.4	12.0	11.0	6.4	12.9	13.7	ND	ND	ND
109 Brookfield Avenue, Salt Creek	9.5	6.1	7.3	16.1	11.3	9.9	17.9	12.8	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	22.8	ND	ND	ND
77 Elmhurst Road, Higgins Creek	8.4	25.7	14.7	11.9	14.1	8.5	11.4	14.3	ND	ND	ND
78 Wille Road, Higgins Creek	2.2	2.4	3.8	3.0	2.5	2.6	4.3	2.8	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	18.6	19.7	23.2	20.2	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	10.7	18.8	13.7	16.9	27.5	21.0	34.1	27.3	ND	ND	ND
17 Oakton Street, Des Plaines River	19.2	35.1	12.3	13.0	34.3	18.3	42.2	20.5	ND	ND	ND
19 Belmont Avenue, Des Plaines River	13.7	22.0	6.1	12.3	23.2	13.0	35.3	11.2	ND	ND	ND
20 Roosevelt Road, Des Plaines River	20.1	23.3	6.7	11.4	23.4	14.2	28.7	10.0	ND	ND	ND
22 Ogden Avenue, Des Plaines River	19.7	20.7	6.1	15.8	19.1	14.1	45.5	12.9	ND	ND	ND
23 Willow Springs Road, Des Plaines River	27.5	22.5	5.1	13.5	29.0	15.9	33.0	20.6	ND	ND	ND
29 Stephen Street, Des Plaines River	29.9	22.4	9.5	17.5	49.0	25.5	49.1	34.5	ND	ND	ND
91 Material Service Road, Des Plaines River	24.1	26.3	11.9	23.8	34.6	40.4	56.2	35.3	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	14.0	14.3	21.4	14.5	59.8	10.6	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-84: BENZENE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	09	08	07	06	05	04	03	02	01	00	99
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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-85: ETHYLBENZENE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	09	08	07	06	05	04	03	02	01	00	99
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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.400	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-86: TOLUENE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	09	08	07	06	05	04	03	02	01	00	99
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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	1.267	0.000	0.000	0.000	0.500	0.000	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.333	0.667	0.000	0.000	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.400	0.000	0.000	0.000	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.333	0.000	1.067	0.000	2.200	1.000	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.967	0.640	0.000	0.400	0.000	0.000	0.000	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.383	0.625	0.000	0.333	0.000	0.000	0.000	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.383	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.800	0.000	0.000	0.000	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	1.033	0.000	0.000	0.000	0.400	0.000	0.000	0.000	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
76 Halsted Street, Little Calumet River	0.483	0.433	0.000	0.000	0.667	0.000	0.000	0.000	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.400	0.000	0.000	0.000	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.467	0.000	0.000	0.000	0.857	0.000	0.000	0.000	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.625	0.000	2.200	0.000	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-87: XYLENE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	09	08	07	06	05	04	03	02	01	00	99
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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	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	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-88: TOTAL SILVER MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.001	0.001
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.000	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.001	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.001	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.001	0.000	0.001
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.000	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	0.001	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.001	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.001
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.001	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	0.001	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.001	0.001	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	0.001	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.000	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.002	0.000	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.002	0.000	0.000
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.000	0.001	0.001	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.001	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	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	0.000	0.000	0.000	0.000	0.003	0.001	0.001	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-89: TOTAL ARSENIC MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.010	0.000	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.000	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.005	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.006	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.008	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.004	0.007	0.008	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.002	0.009	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.007	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.005	0.000	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.006	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.010	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.005	0.006	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.010	0.013	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.005	0.011	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.004	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.004	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.003	0.004	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.004	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.006	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.006	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.004	0.001	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.005	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.006	0.007	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.005	0.005	0.027
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.005	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.004	0.018	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.010	0.005	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.006	0.007	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.005	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.007	0.005	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.004	0.006	0.000	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.005	0.005	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.006	0.000	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.003	0.005	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.005	0.010	0.000
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.006	0.000	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.004	0.005	0.009	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.007	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.006	0.005	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.007	0.000	0.008	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.000	0.003	0.007	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.004	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.002	0.002	0.007	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.545	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.008	0.003	0.012	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.005	0.008	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.004	0.003	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.003	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.002	0.006	0.008	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.003	0.003	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.004	0.002	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.002	0.001	0.000	0.003	0.004	0.004	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-90: TOTAL BARIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.089	0.083	ND
106 Dundee Road, West Fork North Branch Chicago River	0.060	0.063	0.062	0.056	0.051	0.069	0.048	0.054	0.072	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.048	0.048	0.052	0.052	0.055	0.048	0.051	0.051	0.052	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.036	0.042	0.041	0.045	0.042	0.040	0.045	0.045	0.054	0.041	0.039
104 Glenview Road, North Branch Chicago River	0.032	0.037	0.034	0.037	0.032	0.034	0.038	0.035	0.039	ND	ND
32 Lake-Cook Road, Skokie River	0.038	0.042	0.048	0.043	0.041	0.046	0.045	0.047	0.053	0.042	0.040
105 Frontage Road, Skokie River	0.030	0.035	0.032	0.030	0.030	0.033	0.029	0.032	0.036	ND	ND
34 Dempster Street, North Branch Chicago River	0.035	0.039	0.038	0.040	0.041	0.040	0.039	0.040	0.047	0.033	0.032
96 Albany Avenue, North Branch Chicago River	0.037	0.042	0.039	0.041	0.040	0.037	0.039	0.043	0.044	0.029	ND
35 Central Street, North Shore Channel	0.021	0.024	0.023	0.022	0.025	0.023	0.024	0.030	0.026	0.023	0.023
102 Oakton Street, North Shore Channel	0.023	0.025	0.025	0.023	0.025	0.023	0.026	0.025	0.027	ND	ND
36 Touhy Avenue, North Shore Channel	0.026	0.026	0.024	0.021	0.022	0.023	0.020	0.024	0.027	0.017	0.020
101 Foster Avenue, North Shore Channel	0.025	0.027	0.024	0.021	0.022	0.023	0.021	0.024	0.024	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.027	0.030	0.027	0.025	0.024	0.026	0.024	0.028	0.031	0.021	0.022
73 Diversey Parkway, North Branch Chicago River	0.027	0.030	0.026	0.025	0.024	0.026	0.027	0.029	0.033	0.020	0.048
46 Grand Avenue, North Branch Chicago River	0.027	0.030	0.028	0.026	0.025	0.028	0.024	0.028	0.031	0.021	0.021
74 Lake Shore Drive, Chicago River	0.022	0.023	0.024	0.022	0.023	0.025	0.023	0.025	0.026	0.023	0.020
100 Wells Street, Chicago River	0.024	0.026	0.024	0.023	0.023	0.024	0.023	0.027	0.028	ND	ND
39 Madison Street, South Branch Chicago River	0.027	0.028	0.027	0.025	0.024	0.024	0.023	0.027	0.031	0.022	0.024
108 Loomis Street, South Branch Chicago River	0.027	0.030	0.028	0.026	0.025	0.025	0.024	0.027	0.029	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.026	0.030	0.025	0.025	0.025	0.025	0.023	0.029	0.036	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.027	0.029	0.028	0.027	0.025	0.025	0.025	ND	ND	0.019	0.024
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.029	0.033	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.027	0.030	0.027	0.026	0.025	0.026	0.024	0.029	0.031	0.023	0.023
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.023	0.024	0.024	0.021	0.020	0.020	0.019	0.023	0.026	0.018	0.019
42 Route 83, Chicago Sanitary & Ship Canal	0.022	0.024	0.022	0.020	0.020	0.020	0.021	0.023	0.025	0.017	0.018
48 Stephen Street, Chicago Sanitary & Ship Canal	0.023	0.026	0.025	0.023	0.023	0.023	0.023	0.024	0.027	0.020	0.018
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.027	0.032
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.024	0.026	0.023	0.023	0.023	0.024	0.022	0.026	0.028	0.019	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.022	0.022	0.023	0.022	0.022	0.023	0.024	0.026	0.030	0.022	0.024
50 Burnham Avenue, Wolf Lake	0.034	0.034	0.036	0.028	0.033	0.032	0.028	0.029	0.031	0.024	0.024
55 130th Street, Calumet River	0.029	0.030	0.032	0.031	0.030	0.030	0.031	0.035	0.040	0.028	0.029
86 Burnham Avenue, Grand Calumet River	0.028	0.031	0.034	0.029	0.043	0.027	0.031	0.029	0.030	0.025	0.026
56 Indiana Avenue, Little Calumet River	0.033	0.034	0.033	0.031	0.030	0.030	0.030	0.037	0.035	0.029	0.032
76 Halsted Street, Little Calumet River	0.025	0.027	0.024	0.022	0.022	0.022	0.020	0.024	0.030	0.015	0.020
52 Wentworth Avenue, Little Calumet River	0.039	0.040	0.039	0.043	0.037	0.042	0.043	0.045	0.047	0.040	0.037
54 Joe Orr Road, Thorn Creek	0.029	0.031	0.028	0.031	0.042	0.034	0.030	0.030	0.032	0.019	0.023
97 170th Street, Thorn Creek	0.037	0.038	0.035	0.041	0.042	0.042	0.038	0.041	0.043	ND	ND
57 Ashland Avenue, Little Calumet River	0.037	0.038	0.036	0.042	0.040	0.043	0.039	0.040	0.044	0.034	0.033
58 Ashland Avenue, Calumet-Sag Channel	0.027	0.026	0.026	0.024	0.026	0.025	0.029	0.029	0.030	0.022	0.023
59 Cicero Avenue, Calumet-Sag Channel	0.027	0.027	0.027	0.028	0.024	0.027	0.026	0.028	0.035	0.021	0.023
43 Route 83, Calumet-Sag Channel	0.027	0.027	0.027	0.028	0.025	0.026	0.028	0.030	0.034	0.024	0.024
Des Plaines River System											
90 Route 19, Poplar Creek	0.062	0.071	0.078	0.095	0.112	0.102	0.079	0.071	0.067	0.053	0.102
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.047	ND	0.072	0.044	0.045
89 Walnut Lane, West Branch DuPage River	0.029	0.032	0.029	0.030	0.026	0.028	0.028	0.031	0.035	0.025	0.025
64 Lake Street, West Branch DuPage River	0.034	0.039	0.031	0.035	0.033	0.035	0.033	0.037	0.042	0.035	0.032
79 Higgins Road, Salt Creek	0.041	0.051	0.045	0.044	0.053	0.052	0.045	0.048	0.061	0.040	0.042
80 Arlington Heights Road, Salt Creek	0.027	0.031	0.027	0.033	0.033	0.030	0.031	0.030	0.035	0.026	0.023
18 Devon Avenue, Salt Creek	0.028	0.031	0.028	0.033	0.031	0.029	0.030	0.031	0.035	0.028	0.026
24 Wolf Road, Salt Creek	0.034	0.037	0.034	0.035	0.033	0.034	0.031	0.036	0.042	0.034	0.030
109 Brookfield Avenue, Salt Creek	0.034	0.038	0.034	0.036	0.033	0.036	0.034	0.028	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.046	0.048	0.033	0.030
77 Elmhurst Road, Higgins Creek	0.043	0.064	0.043	0.056	0.056	0.067	0.050	0.060	0.072	0.047	0.054
78 Wille Road, Higgins Creek	0.029	0.026	0.024	0.024	0.020	0.024	0.022	0.030	0.032	0.023	0.022
12 Lake-Cook Road, Buffalo Creek	0.042	0.049	0.044	0.047	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.033	0.040	0.040	0.045	0.038	0.038	0.038	0.044	0.044	0.036	0.060
17 Oakton Street, Des Plaines River	0.035	0.041	0.040	0.046	0.040	0.040	0.041	0.044	0.047	0.039	0.035
19 Belmont Avenue, Des Plaines River	0.034	0.040	0.038	0.043	0.037	0.038	0.037	0.040	0.045	0.034	0.032
20 Roosevelt Road, Des Plaines River	0.034	0.042	0.038	0.044	0.037	0.038	0.035	0.042	0.043	0.034	0.033
22 Ogden Avenue, Des Plaines River	0.034	0.039	0.037	0.042	0.036	0.038	0.036	0.040	0.045	0.034	0.032
23 Willow Springs Road, Des Plaines River	0.033	0.039	0.036	0.039	0.036	0.037	0.034	0.038	0.045	0.031	0.060
29 Stephen Street, Des Plaines River	0.033	0.039	0.037	0.041	0.035	0.037	0.036	0.040	0.045	0.034	0.059
91 Material Service Road, Des Plaines River	0.033	0.039	0.037	0.041	0.035	0.038	0.036	0.039	0.044	0.032	ND
110 Springinguth Road, West Branch DuPage River	0.045	0.053	0.048	0.054	0.053	0.056	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-91: TOTAL BORON MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.171	0.208	ND
106 Dundee Road, West Fork North Branch Chicago River	0.160	0.150	0.135	0.129	0.178	0.203	0.147	0.139	0.186	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.113	0.104	0.149	0.145	0.191	0.139	0.137	0.159	0.151	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.074	0.085	0.121	0.118	0.176	0.170	0.113	0.122	0.104	0.134	0.132
104 Glenview Road, North Branch Chicago River	0.107	0.115	0.142	0.142	0.182	0.155	0.138	0.167	0.156	ND	ND
32 Lake-Cook Road, Skokie River	0.093	0.097	0.120	0.135	0.161	0.129	0.137	0.120	0.122	0.161	0.125
105 Frontage Road, Skokie River	0.124	0.121	0.149	0.161	0.188	0.172	0.193	0.186	0.166	ND	ND
34 Dempster Street, North Branch Chicago River	0.103	0.113	0.139	0.143	0.192	0.153	0.176	0.172	0.132	0.194	0.178
96 Albany Avenue, North Branch Chicago River	0.112	0.109	0.138	0.151	0.185	0.150	0.164	0.169	0.157	0.243	ND
35 Central Street, North Shore Channel	0.011	0.012	0.036	0.037	0.039	0.037	0.050	0.052	0.030	0.050	0.015
102 Oakton Street, North Shore Channel	0.070	0.060	0.087	0.117	0.093	0.076	0.091	0.118	0.058	ND	ND
36 Touhy Avenue, North Shore Channel	0.151	0.173	0.185	0.193	0.180	0.172	0.190	0.185	0.211	0.233	0.208
101 Foster Avenue, North Shore Channel	0.147	0.167	0.182	0.192	0.177	0.174	0.176	0.176	0.201	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.128	0.146	0.160	0.173	0.168	0.161	0.166	0.160	0.183	0.201	0.188
73 Diversey Parkway, North Branch Chicago River	0.123	0.142	0.166	0.166	0.160	0.162	0.175	0.161	0.173	0.205	0.193
46 Grand Avenue, North Branch Chicago River	0.116	0.132	0.154	0.163	0.172	0.160	0.162	0.161	0.178	0.214	0.189
74 Lake Shore Drive, Chicago River	0.023	0.040	0.092	0.067	0.061	0.073	0.057	0.055	0.082	0.091	0.025
100 Wells Street, Chicago River	0.045	0.069	0.079	0.081	0.082	0.092	0.103	0.080	0.091	ND	ND
39 Madison Street, South Branch Chicago River	0.102	0.109	0.107	0.128	0.132	0.144	0.149	0.140	0.135	0.178	0.156
108 Loomis Street, South Branch Chicago River	0.103	0.109	0.109	0.131	0.135	0.143	0.144	0.136	0.128	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.099	0.125	0.111	0.117	0.134	0.139	0.143	0.135	0.148	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.101	0.111	0.106	0.130	0.133	0.141	0.145	ND	ND	0.162	0.141
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.136	0.129	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.095	0.125	0.117	0.124	0.133	0.144	0.145	0.145	0.143	0.174	0.133
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.145	0.166	0.168	0.183	0.176	0.207	0.192	0.184	0.190	0.200	0.175
42 Route 83, Chicago Sanitary & Ship Canal	0.164	0.168	0.208	0.223	0.219	0.261	0.226	0.232	0.206	0.219	0.183
48 Stephen Street, Chicago Sanitary & Ship Canal	0.153	0.175	0.192	0.208	0.216	0.221	0.217	0.227	0.219	0.247	0.197
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	0.162	0.185	0.196	0.218	0.223	0.206	0.203	0.206	0.209	0.224	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.017	0.017	0.046	0.049	0.042	0.046	0.035	0.039	0.045	0.033	0.002
50 Burnham Avenue, Wolf Lake	0.238	0.181	0.171	0.115	0.147	0.144	0.105	0.104	0.100	0.069	0.035
55 130th Street, Calumet River	0.111	0.119	0.146	0.107	0.113	0.111	0.084	0.120	0.146	0.084	0.061
86 Burnham Avenue, Grand Calumet River	0.345	0.682	0.583	0.601	0.287	0.429	0.430	0.383	0.370	0.371	0.386
56 Indiana Avenue, Little Calumet River	0.122	0.145	0.165	0.137	0.116	0.127	0.128	0.161	0.152	0.159	0.123
76 Halsted Street, Little Calumet River	0.171	0.205	0.194	0.224	0.205	0.189	0.187	0.201	0.228	0.286	0.244
52 Wentworth Avenue, Little Calumet River	0.169	0.262	0.231	0.240	0.224	0.242	0.267	0.321	0.209	0.276	0.235
54 Joe Orr Road, Thorn Creek	0.256	0.324	0.313	0.404	0.269	0.320	0.252	0.353	0.351	0.410	0.353
97 170th Street, Thorn Creek	0.207	0.246	0.222	0.297	0.251	0.269	0.279	0.332	0.254	ND	ND
57 Ashland Avenue, Little Calumet River	0.191	0.241	0.202	0.258	0.232	0.223	0.265	0.270	0.212	0.321	0.267
58 Ashland Avenue, Calumet-Sag Channel	0.163	0.202	0.173	0.230	0.206	0.194	0.210	0.226	0.232	0.280	0.227
59 Cicero Avenue, Calumet-Sag Channel	0.154	0.201	0.165	0.224	0.199	0.193	0.192	0.207	0.228	0.277	0.230
43 Route 83, Calumet-Sag Channel	0.148	0.187	0.168	0.204	0.207	0.187	0.182	0.194	0.215	0.250	0.235
Des Plaines River System											
90 Route 19, Poplar Creek	0.024	0.047	0.058	0.061	0.071	0.056	0.056	0.056	0.063	0.059	0.012
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.040	ND	0.083	0.069	0.128
89 Walnut Lane, West Branch DuPage River	0.203	0.218	0.248	0.247	0.278	0.274	0.264	0.285	0.296	0.285	0.311
64 Lake Street, West Branch DuPage River	0.149	0.183	0.187	0.190	0.238	0.225	0.228	0.224	0.243	0.203	0.238
79 Higgins Road, Salt Creek	0.079	0.082	0.085	0.091	0.098	0.089	0.073	0.100	0.099	0.086	0.071
80 Arlington Heights Road, Salt Creek	0.145	0.176	0.198	0.191	0.205	0.197	0.191	0.207	0.223	0.207	0.225
18 Devon Avenue, Salt Creek	0.135	0.172	0.196	0.196	0.207	0.189	0.187	0.192	0.211	0.195	0.213
24 Wolf Road, Salt Creek	0.145	0.178	0.182	0.188	0.233	0.193	0.177	0.227	0.184	0.182	0.203
109 Brookfield Avenue, Salt Creek	0.150	0.188	0.183	0.210	0.262	0.195	0.198	0.247	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.179	0.196	0.176	0.200
77 Elmhurst Road, Higgins Creek	0.055	0.110	0.089	0.083	0.081	0.084	0.063	0.074	0.116	0.083	0.124
78 Wille Road, Higgins Creek	0.193	0.245	0.260	0.289	0.366	0.303	0.282	0.335	0.377	0.367	0.376
12 Lake-Cook Road, Buffalo Creek	0.091	0.100	0.088	0.107	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.117	0.157	0.155	0.181	0.221	0.191	0.192	0.189	0.167	0.166	0.166
17 Oakton Street, Des Plaines River	0.101	0.144	0.137	0.155	0.215	0.167	0.186	0.191	0.158	0.146	0.166
19 Belmont Avenue, Des Plaines River	0.112	0.154	0.154	0.170	0.236	0.181	0.209	0.207	0.178	0.176	0.215
20 Roosevelt Road, Des Plaines River	0.107	0.168	0.151	0.172	0.237	0.182	0.207	0.218	0.169	0.181	0.205
22 Ogden Avenue, Des Plaines River	0.121	0.169	0.155	0.183	0.236	0.194	0.211	0.214	0.169	0.178	0.201
23 Willow Springs Road, Des Plaines River	0.116	0.170	0.161	0.185	0.243	0.182	0.176	0.219	0.172	0.185	0.196
29 Stephen Street, Des Plaines River	0.110	0.160	0.167	0.192	0.243	0.177	0.195	0.204	0.172	0.182	0.185
91 Spring Service Road, Des Plaines River	0.116	0.162	0.173	0.198	0.249	0.179	0.217	0.213	0.165	0.215	ND
110 Springinguth Road, West Branch DuPage River	0.075	0.088	0.075	0.079	0.078	0.125	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-92: TOTAL CADMIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.000	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.001	0.001	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.004	0.000	0.001
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.000	0.000	0.000	ND	ND	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.000
55 130th Street, Calumet River	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.002	0.001	0.000	0.000
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.001	0.001	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.001	0.000	0.001
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.004	0.001	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.002	0.001	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	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	0.000	0.001	0.000	0.000	0.002	0.001	0.000	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.001
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.000	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-93: TOTAL COPPER MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.030	0.035	ND
106 Dundee Road, West Fork North Branch Chicago River	0.003	0.005	0.006	0.012	0.028	0.025	0.020	0.023	0.027	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.002	0.004	0.017	0.013	0.015	0.024	0.021	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.005	0.021	0.012	0.013	0.022	0.022	0.011	0.003
104 Glenview Road, North Branch Chicago River	0.001	0.000	0.002	0.005	0.016	0.013	0.013	0.020	0.018	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.000	0.001	0.006	0.017	0.012	0.011	0.019	0.020	0.011	0.004
105 Frontage Road, Skokie River	0.000	0.000	0.002	0.003	0.018	0.014	0.018	0.020	0.017	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.002	0.004	0.018	0.013	0.015	0.021	0.020	0.011	0.003
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.002	0.004	0.017	0.016	0.016	0.022	0.021	0.024	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.001	0.014	0.011	0.012	0.023	0.016	0.007	0.001
102 Oakton Street, North Shore Channel	0.000	0.000	0.001	0.003	0.013	0.012	0.014	0.021	0.016	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.002	0.004	0.017	0.012	0.015	0.024	0.018	0.012	0.003
101 Foster Avenue, North Shore Channel	0.000	0.000	0.003	0.003	0.016	0.014	0.013	0.023	0.014	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.002	0.003	0.016	0.013	0.015	0.023	0.019	0.014	0.002
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.002	0.003	0.017	0.011	0.015	0.022	0.021	0.015	0.003
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.003	0.004	0.017	0.015	0.017	0.022	0.017	0.012	0.006
74 Lake Shore Drive, Chicago River	0.000	0.000	0.003	0.002	0.015	0.013	0.014	0.013	0.015	0.011	0.002
100 Wells Street, Chicago River	0.000	0.000	0.004	0.004	0.016	0.015	0.015	0.019	0.015	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.005	0.004	0.017	0.015	0.015	0.020	0.016	0.010	0.001
108 Loomis Street, South Branch Chicago River	0.000	0.001	0.007	0.005	0.018	0.018	0.016	0.020	0.017	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.003	0.004	0.015	0.014	0.016	0.017	0.015	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.005	0.006	0.018	0.015	0.017	ND	ND	0.008	0.002
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.021	0.027	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.005	0.005	0.019	0.015	0.015	0.020	0.020	0.012	0.002
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.003	0.003	0.013	0.012	0.013	0.016	0.014	0.012	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.001	0.005	0.002	0.015	0.016	0.014	0.017	0.017	0.009	0.001
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.001	0.004	0.002	0.015	0.020	0.015	0.017	0.015	0.011	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.027	0.049
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.001	0.002	0.003	0.016	0.013	0.014	0.020	0.016	0.009	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.004	0.013	0.010	0.011	0.015	0.015	0.009	0.007
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.002	0.014	0.011	0.013	0.013	0.018	0.007	0.001
55 130th Street, Calumet River	0.000	0.000	0.001	0.006	0.013	0.013	0.012	0.015	0.017	0.008	0.001
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.004	0.006	0.038	0.016	0.017	0.020	0.022	0.023	0.013
56 Indiana Avenue, Little Calumet River	0.002	0.000	0.005	0.004	0.015	0.013	0.013	0.020	0.014	0.010	0.003
76 Halsted Street, Little Calumet River	0.028	0.001	0.001	0.002	0.015	0.010	0.010	0.016	0.017	0.010	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.002	0.003	0.015	0.015	0.012	0.019	0.019	0.016	0.004
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.001	0.020	0.014	0.008	0.013	0.017	0.010	0.001
97 170th Street, Thorn Creek	0.000	0.000	0.003	0.002	0.017	0.016	0.014	0.016	0.018	ND	ND
57 Ashland Avenue, Little Calumet River	0.007	0.000	0.004	0.002	0.019	0.014	0.010	0.017	0.021	0.013	0.003
58 Ashland Avenue, Calumet-Sag Channel	0.013	0.000	0.001	0.002	0.020	0.011	0.011	0.017	0.017	0.011	0.001
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.001	0.002	0.014	0.011	0.011	0.016	0.018	0.008	0.002
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.001	0.002	0.014	0.012	0.013	0.018	0.019	0.009	0.001
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.001	0.001	0.015	0.009	0.012	0.016	0.014	0.006	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.017	ND	0.019	0.007	0.002
89 Walnut Lane, West Branch DuPage River	0.003	0.003	0.006	0.007	0.021	0.018	0.018	0.023	0.020	0.011	0.006
64 Lake Street, West Branch DuPage River	0.000	0.000	0.005	0.006	0.022	0.016	0.019	0.021	0.019	0.008	0.002
79 Higgins Road, Salt Creek	0.000	0.000	0.002	0.001	0.017	0.011	0.014	0.021	0.014	0.008	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.002	0.003	0.018	0.013	0.017	0.018	0.021	0.011	0.003
18 Devon Avenue, Salt Creek	0.001	0.000	0.002	0.003	0.021	0.012	0.016	0.019	0.016	0.011	0.004
24 Wolf Road, Salt Creek	0.000	0.001	0.005	0.006	0.020	0.013	0.017	0.020	0.018	0.011	0.004
109 Brookfield Avenue, Salt Creek	0.001	0.001	0.005	0.007	0.020	0.014	0.022	0.024	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.016	0.022	0.011	0.005
77 Elmhurst Road, Higgins Creek	0.000	0.003	0.005	0.006	0.016	0.017	0.018	0.019	0.017	0.009	0.003
78 Wille Road, Higgins Creek	0.000	0.001	0.001	0.001	0.017	0.012	0.014	0.018	0.016	0.011	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.002	0.017	0.013	0.016	0.019	0.015	0.010	0.001
17 Oakton Street, Des Plaines River	0.000	0.000	0.002	0.002	0.016	0.012	0.015	0.018	0.014	0.010	0.001
19 Belmont Avenue, Des Plaines River	0.000	0.001	0.002	0.003	0.019	0.014	0.016	0.021	0.017	0.012	0.001
20 Roosevelt Road, Des Plaines River	0.000	0.001	0.003	0.003	0.017	0.011	0.017	0.022	0.015	0.010	0.002
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.004	0.004	0.020	0.012	0.017	0.020	0.019	0.012	0.001
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.003	0.004	0.021	0.012	0.015	0.023	0.017	0.010	0.001
29 Stephen Street, Des Plaines River	0.000	0.000	0.003	0.004	0.019	0.011	0.016	0.022	0.017	0.011	0.002
91 Material Service Road, Des Plaines River	0.000	0.000	0.003	0.003	0.017	0.014	0.015	0.019	0.019	0.011	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.002	0.001	0.017	0.012	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-94: TOTAL CHROMIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.009	ND
106 Dundee Road, West Fork North Branch Chicago River	0.002	0.002	0.003	0.004	0.000	0.001	0.003	0.006	0.005	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.002	0.001	0.002	0.002	0.000	0.000	0.001	0.007	0.006	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.001	0.002	0.003	0.000	0.000	0.001	0.006	0.004	0.001	0.001
104 Glenview Road, North Branch Chicago River	0.002	0.001	0.001	0.003	0.000	0.001	0.000	0.005	0.003	ND	ND
32 Lake-Cook Road, Skokie River	0.001	0.001	0.001	0.003	0.000	0.000	0.000	0.001	0.005	0.002	0.001
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.001	0.000	0.001	0.002	0.003	0.001	ND	ND
34 Dempster Street, North Branch Chicago River	0.002	0.001	0.002	0.002	0.000	0.000	0.001	0.007	0.003	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.004	0.001	ND
35 Central Street, North Shore Channel	0.000	0.000	0.001	0.001	0.002	0.000	0.000	0.008	0.003	0.000	0.001
102 Oakton Street, North Shore Channel	0.001	0.001	0.001	0.001	0.000	0.000	0.002	0.003	0.004	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.005	0.002	0.003	0.000
101 Foster Avenue, North Shore Channel	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.003	0.001	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.006	0.003	0.001	0.000
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.001	0.001	0.000	0.000	0.002	0.004	0.004	0.002	0.000
46 Grand Avenue, North Branch Chicago River	0.002	0.003	0.003	0.002	0.000	0.001	0.003	0.005	0.002	0.002	0.000
74 Lake Shore Drive, Chicago River	0.000	0.001	0.002	0.001	0.000	0.000	0.001	0.003	0.002	0.002	0.000
100 Wells Street, Chicago River	0.000	0.001	0.003	0.001	0.000	0.000	0.001	0.004	0.005	ND	ND
39 Madison Street, South Branch Chicago River	0.001	0.002	0.004	0.001	0.000	0.001	0.002	0.005	0.003	0.003	0.002
108 Loomis Street, South Branch Chicago River	0.001	0.004	0.004	0.002	0.000	0.001	0.002	0.005	0.003	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.002	0.002	0.001	0.000	0.000	0.002	0.008	0.000	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.002	0.004	0.003	0.002	0.000	0.001	0.003	ND	ND	0.002	0.002
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.005	0.004	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.005	0.003	0.002	0.001	0.001	0.003	0.006	0.003	0.005	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.002	0.008	0.003	0.002	0.000	0.001	0.003	0.004	0.005	0.006	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.002	0.004	0.002	0.000	0.003	0.004	0.005	0.002	0.007	0.001
48 Stephen Street, Chicago Sanitary & Ship Canal	0.003	0.002	0.004	0.002	0.002	0.002	0.004	0.004	0.005	0.006	0.001
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.006
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.003	0.003	0.002	0.002	0.001	0.002	0.003	0.007	0.004	0.002	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.001	0.002	0.001	0.000	0.000	0.000	0.002	0.002	0.003	0.002
50 Burnham Avenue, Wolf Lake	0.001	0.000	0.001	0.000	0.000	0.000	0.001	0.004	0.002	0.001	0.000
55 130th Street, Calumet River	0.001	0.000	0.001	0.002	0.000	0.000	0.000	0.003	0.000	0.002	0.001
86 Burnham Avenue, Grand Calumet River	0.002	0.001	0.003	0.003	0.009	0.002	0.004	0.003	0.006	0.006	0.002
56 Indiana Avenue, Little Calumet River	0.004	0.002	0.003	0.002	0.000	0.000	0.001	0.006	0.002	0.003	0.001
76 Halsted Street, Little Calumet River	0.001	0.002	0.002	0.002	0.000	0.001	0.001	0.001	0.004	0.003	0.001
52 Wentworth Avenue, Little Calumet River	0.003	0.001	0.002	0.002	0.001	0.001	0.001	0.007	0.003	0.003	0.001
54 Joe Orr Road, Thorn Creek	0.001	0.000	0.001	0.001	0.004	0.000	0.003	0.005	0.002	0.003	0.001
97 170th Street, Thorn Creek	0.001	0.001	0.002	0.002	0.001	0.002	0.003	0.005	0.008	ND	ND
57 Ashland Avenue, Little Calumet River	0.003	0.001	0.004	0.002	0.002	0.002	0.002	0.007	0.003	0.004	0.001
58 Ashland Avenue, Calumet-Sag Channel	0.001	0.002	0.003	0.001	0.000	0.001	0.002	0.006	0.003	0.003	0.001
59 Cicero Avenue, Calumet-Sag Channel	0.001	0.003	0.002	0.002	0.000	0.002	0.003	0.005	0.005	0.004	0.002
43 Route 83, Calumet-Sag Channel	0.001	0.001	0.002	0.002	0.000	0.000	0.004	0.005	0.004	0.004	0.002
Des Plaines River System											
90 Route 19, Poplar Creek	0.001	0.003	0.001	0.001	0.000	0.000	0.001	0.003	0.005	0.002	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.009	0.001	0.002
89 Walnut Lane, West Branch DuPage River	0.002	0.003	0.001	0.001	0.000	0.000	0.001	0.002	0.004	0.001	0.000
64 Lake Street, West Branch DuPage River	0.001	0.002	0.002	0.002	0.000	0.000	0.001	0.003	0.005	0.001	0.000
79 Higgins Road, Salt Creek	0.001	0.001	0.002	0.002	0.001	0.000	0.003	0.009	0.005	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.002	0.000	0.001	0.001	0.000	0.000	0.000	0.003	0.005	0.001	0.001
18 Devon Avenue, Salt Creek	0.002	0.000	0.001	0.001	0.001	0.000	0.001	0.001	0.002	0.002	0.000
24 Wolf Road, Salt Creek	0.002	0.001	0.002	0.003	0.001	0.000	0.004	0.007	0.006	0.004	0.000
109 Brookfield Avenue, Salt Creek	0.001	0.002	0.002	0.007	0.003	0.003	0.003	0.007	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.000	0.006	0.003	0.001
77 Elmhurst Road, Higgins Creek	0.002	0.004	0.003	0.003	0.000	0.000	0.003	0.004	0.001	0.002	0.000
78 Wille Road, Higgins Creek	0.001	0.001	0.001	0.001	0.000	0.001	0.002	0.004	0.004	0.003	0.000
12 Lake-Cook Road, Buffalo Creek	0.004	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.003	0.001	0.000
17 Oakton Street, Des Plaines River	0.002	0.001	0.001	0.001	0.000	0.000	0.003	0.004	0.005	0.003	0.000
19 Belmont Avenue, Des Plaines River	0.006	0.002	0.002	0.002	0.013	0.000	0.031	0.002	0.005	0.003	0.000
20 Roosevelt Road, Des Plaines River	0.002	0.002	0.002	0.002	0.004	0.000	0.018	0.004	0.005	0.003	0.001
22 Ogden Avenue, Des Plaines River	0.002	0.002	0.002	0.003	0.002	0.002	0.003	0.004	0.005	0.005	0.000
23 Willow Springs Road, Des Plaines River	0.002	0.002	0.002	0.003	0.005	0.001	0.004	0.002	0.005	0.003	0.000
29 Stephen Street, Des Plaines River	0.002	0.001	0.002	0.004	0.003	0.001	0.003	0.001	0.005	0.005	0.000
91 Material Service Road, Des Plaines River	0.001	0.003	0.002	0.002	0.002	0.001	0.003	0.004	0.005	0.002	ND
110 Springinguth Road, West Branch DuPage River	0.001	0.002	0.001	0.001	0.000	0.001	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-95: TOTAL HEXAVALENT CHROMIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	09	08	07	06	05	04	03	02	01	00	99
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	0.500	1.800	3.500	0.000	2.000	0.000	0.000	0.000	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.727	0.500	1.400	0.500	0.375	0.000	0.000	0.000	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.182	1.300	0.000	0.000	0.000	0.000	0.000	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.364	0.667	1.500	0.167	0.000	0.000	0.000	0.000	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.600	0.333	0.909	0.000	0.556	0.000	0.000	0.000	ND
105 Frontage Road, Skokie River	0.000	0.000	0.364	0.750	1.250	0.000	0.500	0.000	0.000	0.000	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.545	1.000	1.909	0.167	0.455	0.000	0.000	0.000	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.636	0.333	1.273	0.364	0.400	0.000	0.000	0.000	ND
35 Central Street, North Shore Channel	0.000	0.000	0.333	0.889	1.750	0.000	0.444	0.000	0.000	0.000	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.583	0.333	1.750	0.167	0.300	0.000	0.000	0.000	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	1.083	0.500	1.333	0.583	0.000	0.000	0.000	0.000	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.583	0.667	1.846	0.417	0.500	0.000	0.000	0.000	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.167	0.667	1.833	0.333	0.500	0.000	0.000	0.000	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.333	0.750	1.583	0.750	0.667	0.000	0.000	0.000	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.545	0.333	1.667	0.667	0.667	0.000	0.000	0.000	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.909	0.364	0.400	0.222	0.400	0.000	0.000	0.000	ND
100 Wells Street, Chicago River	0.000	0.000	1.000	0.417	0.417	0.333	0.500	0.167	0.000	0.000	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.545	0.750	0.667	0.417	0.364	0.000	0.000	0.000	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.167	0.667	0.500	0.333	0.500	0.167	0.000	0.000	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.364	0.286	0.909	0.417	0.500	0.000	0.000	0.000	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.583	0.500	0.833	0.333	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	1.417	1.083	0.583	0.750	0.333	0.250	0.000	0.000	0.000	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	2.909	0.333	0.500	0.667	0.333	0.667	0.000	0.000	0.000	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.182	0.667	0.818	0.333	0.167	0.000	0.000	0.000	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.636	0.667	0.909	0.333	0.167	0.000	0.000	0.000	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	0.540	0.627	1.442	0.404	0.442	0.000	0.000	0.000	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.400	0.364	0.818	0.400	0.583	0.000	0.000	0.000	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.545	0.636	1.167	0.167	0.833	0.000	0.000	0.000	ND
55 130th Street, Calumet River	0.000	0.000	0.400	0.818	1.091	0.182	1.000	0.000	0.000	0.000	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.200	0.818	1.700	0.444	0.700	0.000	0.000	0.000	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.500	0.818	1.000	0.444	0.000	0.000	0.000	0.000	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.909	0.818	1.583	0.000	0.545	0.000	0.000	0.000	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.727	0.727	1.364	0.000	1.200	0.000	0.000	0.000	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.200	0.667	2.500	0.000	0.667	0.000	0.000	0.000	ND
97 170th Street, Thorn Creek	0.000	0.000	1.000	0.818	1.636	0.000	1.200	0.000	0.000	0.000	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.364	1.091	1.545	0.200	0.300	0.000	0.000	0.000	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.727	0.909	1.500	0.167	0.583	0.000	0.000	0.000	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.273	0.727	1.583	0.167	1.273	0.000	0.000	0.000	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.273	1.000	1.273	0.000	1.273	0.000	0.000	0.000	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.417	1.455	1.091	0.700	0.000	0.000	0.000	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.000	0.000	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.417	0.417	1.250	1.091	0.364	0.000	0.000	0.000	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.750	0.833	1.583	1.167	0.750	0.000	0.000	0.000	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.200	0.778	1.778	1.091	0.667	0.000	0.000	0.000	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.167	0.167	2.250	1.000	0.500	0.000	0.000	0.000	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.417	0.333	1.667	1.167	0.333	0.000	0.000	0.000	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.182	0.417	2.333	0.636	0.583	0.000	0.000	0.000	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.182	3.500	1.917	2.364	0.900	0.000	0.000	0.000	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.400	0.714	1.000	0.667	0.200	0.000	0.000	0.000	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.167	0.500	1.333	0.364	0.750	0.000	0.000	0.000	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.333	0.778	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.833	0.000	1.583	0.909	0.667	0.000	0.000	0.000	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.182	0.167	1.417	1.000	0.500	0.000	0.000	0.000	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.583	10.333	1.000	0.750	0.000	0.000	0.000	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.364	0.417	3.833	0.636	1.143	0.000	0.000	0.000	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.364	0.667	1.500	0.727	0.000	0.000	0.000	0.000	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.182	0.833	3.083	1.273	0.700	0.000	0.000	0.000	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.750	1.500	0.727	0.909	0.000	0.000	0.000	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.273	0.750	1.417	0.545	0.667	0.000	0.000	0.000	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.600	0.545	1.727	1.300	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-96: TOTAL IRON MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	1.795	3.350	ND
106 Dundee Road, West Fork North Branch Chicago River	1.346	1.915	1.138	2.559	1.173	1.846	1.601	0.913	1.349	ND	ND
103 Golf Road, West Fork North Branch Chicago River	1.029	0.838	0.573	1.142	0.864	0.698	0.823	1.037	0.953	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.894	1.080	0.853	1.924	0.817	0.917	0.922	0.934	1.443	0.634	0.734
104 Glenview Road, North Branch Chicago River	0.885	0.909	0.617	1.421	0.598	0.705	0.847	0.705	0.707	ND	ND
32 Lake-Cook Road, Skokie River	0.976	1.095	0.846	1.756	0.867	0.922	0.683	0.831	1.040	0.565	0.652
105 Frontage Road, Skokie River	0.631	0.711	0.584	0.591	0.476	0.856	0.534	0.580	0.528	ND	ND
34 Dempster Street, North Branch Chicago River	0.828	0.921	0.693	1.091	0.697	0.703	0.744	0.889	0.957	0.502	0.521
96 Albany Avenue, North Branch Chicago River	0.797	1.098	0.595	0.917	0.646	0.722	0.701	0.889	0.666	0.320	ND
35 Central Street, North Shore Channel	0.278	0.300	0.209	0.322	0.329	0.297	0.256	0.355	0.357	0.268	0.183
102 Oakton Street, North Shore Channel	0.340	0.490	0.388	0.394	0.358	0.393	0.522	0.466	0.560	ND	ND
36 Touhy Avenue, North Shore Channel	0.173	0.198	0.158	0.180	0.209	0.241	0.171	0.310	0.284	0.178	0.136
101 Foster Avenue, North Shore Channel	0.182	0.259	0.185	0.214	0.306	0.320	0.236	0.347	0.295	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.458	0.484	0.322	0.361	0.306	0.385	0.355	0.490	0.450	0.248	0.210
73 Diversey Parkway, North Branch Chicago River	0.478	0.459	0.373	0.401	0.319	0.384	0.509	0.560	0.538	0.305	0.273
46 Grand Avenue, North Branch Chicago River	0.546	0.479	0.552	0.506	0.386	0.637	0.466	0.594	0.531	0.328	0.283
74 Lake Shore Drive, Chicago River	0.103	0.148	0.161	0.099	0.127	0.136	0.158	0.199	0.219	0.192	0.102
100 Wells Street, Chicago River	0.182	0.292	0.172	0.178	0.171	0.180	0.222	0.248	0.347	ND	ND
39 Madison Street, South Branch Chicago River	0.410	0.477	0.527	0.294	0.326	0.394	0.389	0.439	0.550	0.386	0.238
108 Loomis Street, South Branch Chicago River	0.437	0.566	0.543	0.397	0.327	0.382	0.392	0.417	0.481	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.460	0.483	0.379	0.384	0.393	0.462	0.455	0.599	0.822	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.460	0.513	0.495	0.465	0.360	0.488	0.446	ND	ND	0.258	0.269
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.507	0.717	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.523	0.473	0.509	0.494	0.401	0.484	0.493	0.545	0.621	0.379	0.313
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.340	0.286	0.418	0.295	0.256	0.270	0.261	0.330	0.331	0.262	0.210
42 Route 83, Chicago Sanitary & Ship Canal	0.307	0.364	0.425	0.247	0.247	0.293	0.318	0.336	0.324	0.182	0.170
48 Stephen Street, Chicago Sanitary & Ship Canal	0.506	0.630	0.641	0.511	0.473	0.509	0.516	0.429	0.466	0.316	0.222
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.616	1.125
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.561	0.593	0.454	0.477	0.443	0.445	0.434	0.505	0.493	0.320	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.173	0.210	0.355	0.308	0.202	0.293	0.249	0.268	0.429	0.317	0.242
50 Burnham Avenue, Wolf Lake	0.117	0.065	0.165	0.065	0.148	0.100	0.110	0.134	0.203	0.123	0.118
55 130th Street, Calumet River	0.183	0.234	0.339	0.479	0.257	0.244	0.330	0.345	0.437	0.365	0.191
86 Burnham Avenue, Grand Calumet River	1.010	1.108	1.567	1.217	2.100	1.194	1.315	1.335	1.111	1.126	0.766
56 Indiana Avenue, Little Calumet River	0.650	0.861	0.701	0.587	0.684	0.576	0.791	1.014	0.633	0.470	0.395
76 Halsted Street, Little Calumet River	0.381	0.698	0.390	0.380	0.321	0.382	0.330	0.449	0.511	0.329	0.251
52 Wentworth Avenue, Little Calumet River	1.980	1.189	1.842	1.676	1.388	1.469	1.350	1.973	1.504	1.156	0.927
54 Joe Orr Road, Thorn Creek	0.739	0.332	0.489	0.317	2.309	0.681	1.481	0.445	0.594	0.433	0.262
97 170th Street, Thorn Creek	1.223	0.825	1.459	1.217	1.516	1.468	1.088	0.867	1.623	ND	ND
57 Ashland Avenue, Little Calumet River	1.307	0.785	1.423	1.126	1.514	1.678	1.084	0.980	1.435	0.642	0.640
58 Ashland Avenue, Calumet-Sag Channel	0.606	0.549	0.757	0.461	0.548	0.543	0.787	0.616	0.639	0.439	0.360
59 Cicero Avenue, Calumet-Sag Channel	0.643	0.782	0.830	0.780	0.524	0.664	0.745	0.637	0.764	0.478	0.398
43 Route 83, Calumet-Sag Channel	0.784	0.578	0.706	0.722	0.514	0.505	0.973	0.751	0.947	0.546	0.388
Des Plaines River System											
90 Route 19, Poplar Creek	0.750	0.959	0.672	1.105	1.031	0.619	0.982	0.846	0.840	0.611	0.627
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	1.353	ND	1.256	0.844	0.672
89 Walnut Lane, West Branch DuPage River	0.334	0.607	0.363	0.333	0.383	0.423	0.608	0.432	0.477	0.417	0.285
64 Lake Street, West Branch DuPage River	0.807	1.035	0.879	1.017	1.009	0.863	1.154	0.894	1.062	0.773	0.577
79 Higgins Road, Salt Creek	1.223	1.264	1.286	1.306	1.534	0.869	1.666	1.448	1.119	0.858	0.760
80 Arlington Heights Road, Salt Creek	0.538	0.333	0.447	0.397	0.344	0.420	0.345	0.343	0.511	0.350	0.375
18 Devon Avenue, Salt Creek	0.619	0.427	0.533	0.488	0.421	0.539	0.590	0.434	0.660	0.518	0.583
24 Wolf Road, Salt Creek	0.909	0.929	1.071	1.287	0.875	0.732	1.312	0.662	0.859	0.621	0.557
109 Brookfield Avenue, Salt Creek	0.934	0.908	0.941	1.371	0.903	0.701	1.580	0.605	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.583	1.204	0.695	0.514
77 Elmhurst Road, Higgins Creek	0.770	1.844	0.960	1.375	0.866	1.061	1.454	1.179	1.127	0.733	0.812
78 Wille Road, Higgins Creek	0.137	0.236	0.177	0.153	0.160	0.184	0.227	0.417	0.334	0.214	0.103
12 Lake-Cook Road, Buffalo Creek	1.227	1.054	1.261	1.086	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.976	0.788	0.863	0.920	0.892	0.757	0.964	0.829	0.992	0.678	0.586
17 Oakton Street, Des Plaines River	1.019	0.902	0.812	0.875	0.722	0.726	1.499	0.632	1.024	0.770	0.577
19 Belmont Avenue, Des Plaines River	0.971	0.975	0.883	0.892	0.682	0.673	1.145	0.680	0.887	0.631	0.490
20 Roosevelt Road, Des Plaines River	1.030	0.979	0.865	0.871	0.766	0.688	1.292	0.749	0.760	0.632	0.514
22 Ogden Avenue, Des Plaines River	1.055	0.916	1.081	1.161	0.850	0.710	1.300	0.679	0.869	0.611	0.510
23 Willow Springs Road, Des Plaines River	0.992	0.872	0.880	0.932	0.727	0.702	1.068	0.611	1.007	0.652	0.557
29 Stephen Street, Des Plaines River	1.074	0.796	0.849	0.907	0.756	0.805	1.176	0.679	1.195	0.707	0.580
91 Material Service Road, Des Plaines River	0.862	0.762	0.765	0.966	0.790	0.810	1.213	0.754	1.216	0.669	ND
110 Springinguth Road, West Branch DuPage River	1.387	1.469	1.348	1.222	1.425	1.342	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-97: TOTAL LEAD MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND
106 Dundee Road, West Fork North Branch Chicago River	0.022	0.010	0.005	0.007	0.006	0.006	0.006	0.000	0.000	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.012	0.004	0.005	0.006	0.005	0.007	0.004	0.002	0.010	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.009	0.004	0.006	0.007	0.004	0.006	0.004	0.002	0.006	0.004	0.000
104 Glenview Road, North Branch Chicago River	0.019	0.007	0.005	0.008	0.003	0.006	0.007	0.002	0.002	ND	ND
32 Lake-Cook Road, Skokie River	0.011	0.006	0.007	0.007	0.003	0.008	0.004	0.002	0.001	0.004	0.000
105 Frontage Road, Skokie River	0.018	0.005	0.006	0.006	0.003	0.007	0.006	0.002	0.000	ND	ND
34 Dempster Street, North Branch Chicago River	0.016	0.007	0.005	0.007	0.005	0.006	0.006	0.002	0.003	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.018	0.009	0.006	0.007	0.005	0.008	0.006	0.002	0.004	0.000	ND
35 Central Street, North Shore Channel	0.009	0.004	0.002	0.003	0.002	0.005	0.003	0.002	0.006	0.000	0.000
102 Oakton Street, North Shore Channel	0.010	0.007	0.005	0.004	0.004	0.004	0.006	0.002	0.005	ND	ND
36 Touhy Avenue, North Shore Channel	0.020	0.005	0.004	0.004	0.003	0.005	0.004	0.001	0.005	0.003	0.000
101 Foster Avenue, North Shore Channel	0.017	0.006	0.004	0.004	0.003	0.005	0.005	0.001	0.000	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.016	0.007	0.005	0.005	0.003	0.006	0.031	0.001	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.016	0.006	0.005	0.005	0.004	0.006	0.125	0.001	0.027	0.003	0.000
46 Grand Avenue, North Branch Chicago River	0.016	0.007	0.008	0.007	0.005	0.008	0.105	0.002	0.006	0.005	0.000
74 Lake Shore Drive, Chicago River	0.003	0.006	0.008	0.004	0.004	0.006	0.003	0.001	0.000	0.003	0.000
100 Wells Street, Chicago River	0.004	0.006	0.006	0.010	0.004	0.005	0.004	0.001	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.004	0.007	0.010	0.010	0.006	0.007	0.006	0.002	0.000	0.003	0.000
108 Loomis Street, South Branch Chicago River	0.013	0.009	0.010	0.011	0.006	0.007	0.007	0.002	0.000	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.006	0.006	0.008	0.007	0.007	0.008	0.008	0.003	0.007	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.007	0.008	0.009	0.011	0.007	0.009	0.008	ND	ND	0.009	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.003	0.004	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.011	0.008	0.010	0.011	0.007	0.009	0.009	0.003	0.000	0.006	0.004
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.010	0.007	0.008	0.008	0.004	0.006	0.006	0.002	0.003	0.254	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.013	0.009	0.008	0.007	0.005	0.007	0.007	0.002	0.000	0.003	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.013	0.007	0.009	0.008	0.007	0.009	0.008	0.002	0.000	0.004	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.004
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.013	0.008	0.006	0.007	0.006	0.007	0.007	0.003	0.002	0.001	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.004	0.010	0.004	0.003	0.005	0.004	0.002	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.002	0.004	0.007	0.003	0.004	0.003	0.004	0.002	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.002	0.006	0.008	0.004	0.005	0.004	0.002	0.002	0.010	0.000
86 Burnham Avenue, Grand Calumet River	0.004	0.007	0.012	0.013	0.034	0.015	0.014	0.002	0.000	0.005	0.005
56 Indiana Avenue, Little Calumet River	0.000	0.005	0.027	0.006	0.006	0.006	0.007	0.003	0.003	0.003	0.000
76 Halsted Street, Little Calumet River	0.009	0.010	0.042	0.006	0.005	0.007	0.006	0.003	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.006	0.005	0.005	0.006	0.005	0.007	0.005	0.003	0.005	0.003	0.000
54 Joe Orr Road, Thorn Creek	0.004	0.002	0.004	0.004	0.016	0.005	0.005	0.000	0.003	0.008	0.000
97 170th Street, Thorn Creek	0.004	0.004	0.007	0.006	0.007	0.010	0.006	0.003	0.000	ND	ND
57 Ashland Avenue, Little Calumet River	0.002	0.005	0.007	0.006	0.008	0.011	0.007	0.002	0.000	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.008	0.006	0.007	0.006	0.010	0.007	0.006	0.004	0.003	0.003	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.002	0.005	0.006	0.007	0.005	0.009	0.007	0.003	0.001	0.000	0.007
43 Route 83, Calumet-Sag Channel	0.003	0.004	0.006	0.008	0.008	0.007	0.009	0.004	0.068	0.006	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.013	0.007	0.003	0.004	0.003	0.008	0.004	0.002	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.006	ND	0.000	0.003	0.000
89 Walnut Lane, West Branch DuPage River	0.015	0.006	0.004	0.005	0.003	0.010	0.006	0.009	0.000	0.003	0.000
64 Lake Street, West Branch DuPage River	0.014	0.007	0.004	0.005	0.012	0.008	0.005	0.002	0.000	0.004	0.000
79 Higgins Road, Salt Creek	0.002	0.005	0.005	0.006	0.005	0.009	0.006	0.003	0.052	0.004	0.000
80 Arlington Heights Road, Salt Creek	0.015	0.007	0.003	0.005	0.003	0.007	0.004	0.001	0.000	0.008	0.000
18 Devon Avenue, Salt Creek	0.011	0.013	0.003	0.004	0.004	0.006	0.004	0.002	0.000	0.000	0.000
24 Wolf Road, Salt Creek	0.014	0.006	0.006	0.007	0.004	0.008	0.007	0.003	0.005	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.015	0.007	0.006	0.007	0.005	0.009	0.008	0.005	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.000	0.005	0.004	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.006	0.009	0.008	0.004	0.011	0.008	0.002	0.000	0.000	0.000
78 Wille Road, Higgins Creek	0.016	0.007	0.004	0.004	0.004	0.007	0.004	0.003	0.002	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.019	0.008	0.006	0.005	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.014	0.007	0.005	0.004	0.003	0.022	0.005	0.003	0.027	0.004	0.000
17 Oakton Street, Des Plaines River	0.012	0.007	0.005	0.005	0.004	0.007	0.006	0.003	0.002	0.004	0.000
19 Belmont Avenue, Des Plaines River	0.015	0.007	0.005	0.006	0.005	0.008	0.006	0.003	0.000	0.012	0.000
20 Roosevelt Road, Des Plaines River	0.014	0.007	0.005	0.007	0.005	0.008	0.005	0.002	0.002	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.012	0.008	0.006	0.008	0.005	0.008	0.008	0.002	0.003	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.012	0.008	0.006	0.007	0.005	0.012	0.007	0.003	0.000	0.004	0.000
29 Stephen Street, Des Plaines River	0.012	0.008	0.005	0.006	0.005	0.009	0.008	0.002	0.002	0.000	0.000
91 Material Service Road, Des Plaines River	0.014	0.007	0.007	0.007	0.005	0.009	0.008	0.002	0.007	0.003	ND
110 Springinguth Road, West Branch DuPage River	0.002	0.008	0.005	0.005	0.004	0.010	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-98: TOTAL NICKEL MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.020	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.003	0.003	0.003	0.003	0.004	0.005	0.006	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.001	0.002	0.003	0.001	0.003	0.006	0.004	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.002	0.002	0.002	0.002	0.005	0.006	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.001	0.002	0.002	0.003	0.001	0.004	0.003	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.001	0.002	0.001	0.001	0.002	0.005	0.006	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.001	0.001	0.002	0.005	0.004	0.003	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.002	0.002	0.002	0.001	0.003	0.004	0.004	0.001	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	0.002	0.002	0.004	0.003	0.005	0.003	0.000	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.002	0.003	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.000	0.001	0.002	0.002	0.001	0.003	0.005	0.004	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.001	0.002	0.002	0.002	0.005	0.004	0.006	0.004	0.000
101 Foster Avenue, North Shore Channel	0.001	0.000	0.002	0.002	0.003	0.002	0.005	0.006	0.007	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.002	0.002	0.003	0.003	0.005	0.005	0.007	0.007	0.000
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.002	0.002	0.003	0.002	0.006	0.009	0.008	0.004	0.000
46 Grand Avenue, North Branch Chicago River	0.002	0.000	0.004	0.004	0.004	0.004	0.008	0.008	0.007	0.004	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.003	0.007	0.003	0.000
100 Wells Street, Chicago River	0.000	0.000	0.002	0.001	0.002	0.002	0.004	0.004	0.011	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.012	0.003	0.004	0.003	0.006	0.007	0.008	0.004	0.003
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.004	0.003	0.004	0.003	0.006	0.007	0.004	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.003	0.003	0.004	0.003	0.005	0.006	0.005	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.003	0.003	0.004	0.003	0.007	ND	ND	0.003	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.006	0.006	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.003	0.003	0.004	0.003	0.007	0.006	0.005	0.005	0.001
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.004	0.005	0.006	0.005	0.005	0.008	0.005	0.003	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.006	0.005	0.006	0.007	0.008	0.009	0.006	0.005	0.003
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.005	0.004	0.006	0.006	0.007	0.009	0.006	0.005	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.003
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.004	0.005	0.006	0.005	0.006	0.008	0.005	0.002	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.002	0.003	0.003	0.002
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.004	0.001	0.002
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.003	0.003	0.005	0.004	0.005	0.009	0.006	0.002	0.003
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.004	0.002	0.002	0.002	0.003	0.006	0.002	0.003	0.002
76 Halsted Street, Little Calumet River	0.000	0.000	0.003	0.002	0.002	0.004	0.002	0.004	0.003	0.004	0.003
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.002	0.002	0.003	0.003	0.002	0.005	0.004	0.000	0.003
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.001	0.001	0.004	0.001	0.003	0.005	0.002	0.002	0.002
97 170th Street, Thorn Creek	0.000	0.000	0.003	0.004	0.007	0.005	0.003	0.007	0.005	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.004	0.003	0.005	0.004	0.004	0.010	0.005	0.001	0.002
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.003	0.002	0.003	0.003	0.004	0.004	0.004	0.003	0.002
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.003	0.003	0.003	0.003	0.005	0.005	0.004	0.002	0.002
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.003	0.003	0.004	0.002	0.005	0.006	0.005	0.003	0.003
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.002	0.000	0.001	0.002	0.000	0.001	0.003	0.002	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.002	ND	0.004	0.000	0.002
89 Walnut Lane, West Branch DuPage River	0.003	0.001	0.002	0.003	0.003	0.001	0.001	0.005	0.002	0.000	0.000
64 Lake Street, West Branch DuPage River	0.004	0.000	0.003	0.004	0.004	0.002	0.002	0.004	0.003	0.002	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.002	0.002	0.004	0.002	0.002	0.006	0.004	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.003	0.002	0.003	0.002	0.002	0.005	0.003	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.003	0.002	0.003	0.002	0.003	0.004	0.002	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.004	0.004	0.005	0.005	0.004	0.009	0.004	0.002	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.004	0.004	0.006	0.005	0.004	0.011	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.003	0.009	0.002	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.005	0.004	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.002	0.007	0.007	0.014	0.006	0.005	0.009	0.008	0.003	0.000
12 Lake-Cook Road, Buffalo Creek	0.001	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.006	0.002	0.002	0.005	0.003	0.005	0.005	0.003	0.000	0.000
17 Oakton Street, Des Plaines River	0.002	0.000	0.001	0.002	0.004	0.002	0.004	0.005	0.003	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.002	0.000	0.003	0.003	0.006	0.003	0.005	0.006	0.003	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.002	0.003	0.006	0.003	0.004	0.007	0.003	0.002	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.003	0.004	0.006	0.003	0.005	0.008	0.004	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.003	0.003	0.006	0.003	0.004	0.007	0.004	0.002	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.003	0.003	0.005	0.003	0.005	0.007	0.003	0.002	0.000
91 Material Service Road, Des Plaines River	0.500	0.000	0.003	0.003	0.005	0.004	0.005	0.007	0.004	0.001	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.002	0.002	0.003	0.003	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-99: TOTAL MANGANESE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.122	0.139	ND
106 Dundee Road, West Fork North Branch Chicago River	0.080	0.089	0.075	0.087	0.083	0.097	0.097	0.067	0.110	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.076	0.069	0.074	0.068	0.087	0.067	0.070	0.091	0.098	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.078	0.084	0.148	0.084	0.128	0.092	0.077	0.148	0.107	0.080	0.217
104 Glenview Road, North Branch Chicago River	0.087	0.073	0.062	0.072	0.080	0.060	0.062	0.060	0.078	ND	ND
32 Lake-Cook Road, Skokie River	0.085	0.095	0.120	0.086	0.124	0.137	0.081	0.096	0.131	0.100	0.162
105 Frontage Road, Skokie River	0.056	0.059	0.055	0.038	0.045	0.086	0.108	0.046	0.057	ND	ND
34 Dempster Street, North Branch Chicago River	0.067	0.072	0.068	0.064	0.072	0.065	0.112	0.083	0.098	0.067	0.059
96 Albany Avenue, North Branch Chicago River	0.060	0.085	0.068	0.060	0.059	0.062	0.072	0.057	0.068	0.035	ND
35 Central Street, North Shore Channel	0.019	0.037	0.015	0.019	0.045	0.017	0.020	0.028	0.037	0.021	0.024
102 Oakton Street, North Shore Channel	0.024	0.032	0.021	0.024	0.021	0.025	0.031	0.026	0.036	ND	ND
36 Touhy Avenue, North Shore Channel	0.016	0.023	0.019	0.014	0.021	0.019	0.016	0.034	0.038	0.029	0.018
101 Foster Avenue, North Shore Channel	0.024	0.024	0.020	0.015	0.021	0.023	0.019	0.027	0.020	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.028	0.033	0.026	0.022	0.026	0.027	0.030	0.035	0.047	0.042	0.048
73 Diversey Parkway, North Branch Chicago River	0.034	0.043	0.029	0.026	0.026	0.027	0.046	0.036	0.053	0.081	0.027
46 Grand Avenue, North Branch Chicago River	0.036	0.045	0.054	0.031	0.033	0.037	0.038	0.042	0.042	0.044	0.028
74 Lake Shore Drive, Chicago River	0.013	0.017	0.018	0.008	0.012	0.018	0.013	0.017	0.020	0.035	0.010
100 Wells Street, Chicago River	0.018	0.037	0.024	0.013	0.020	0.022	0.020	0.021	0.027	ND	ND
39 Madison Street, South Branch Chicago River	0.026	0.038	0.030	0.022	0.069	0.028	0.028	0.036	0.037	0.039	0.027
108 Loomis Street, South Branch Chicago River	0.032	0.048	0.042	0.027	0.036	0.028	0.027	0.035	0.050	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.046	0.049	0.033	0.026	0.038	0.034	0.032	0.048	0.062	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.030	0.045	0.032	0.029	0.031	0.029	0.035	ND	ND	0.038	0.028
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.041	0.070	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.029	0.037	0.034	0.029	0.029	0.029	0.032	0.040	0.045	0.047	0.027
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.034	0.029	0.031	0.031	0.019	0.019	0.017	0.036	0.030	0.046	0.022
42 Route 83, Chicago Sanitary & Ship Canal	0.022	0.027	0.023	0.020	0.021	0.022	0.029	0.039	0.029	0.028	0.025
48 Stephen Street, Chicago Sanitary & Ship Canal	0.041	0.036	0.032	0.039	0.039	0.042	0.039	0.043	0.050	0.049	0.033
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.049	0.083
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.041	0.066	0.039	0.036	0.037	0.047	0.037	0.053	0.045	0.074	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.030	0.018	0.023	0.017	0.016	0.053	0.020	0.022	0.030	0.024	0.029
50 Burnham Avenue, Wolf Lake	0.047	0.052	0.081	0.029	0.054	0.040	0.035	0.028	0.043	0.044	0.058
55 130th Street, Calumet River	0.031	0.050	0.028	0.040	0.033	0.030	0.039	0.031	0.046	0.037	0.031
86 Burnham Avenue, Grand Calumet River	0.088	0.169	0.176	0.144	0.093	0.096	0.158	0.098	0.093	0.090	0.058
56 Indiana Avenue, Little Calumet River	0.052	0.059	0.046	0.029	0.037	0.028	0.039	0.086	0.041	0.040	0.057
76 Halsted Street, Little Calumet River	0.037	0.050	0.078	0.041	0.037	0.036	0.041	0.053	0.068	0.058	0.056
52 Wentworth Avenue, Little Calumet River	0.119	0.121	0.131	0.112	0.115	0.138	0.124	0.134	0.145	0.138	0.130
54 Joe Orr Road, Thorn Creek	0.062	0.064	0.066	0.050	0.131	0.073	0.058	0.073	0.070	0.065	0.062
97 170th Street, Thorn Creek	0.092	0.081	0.097	0.080	0.095	0.111	0.080	0.102	0.100	ND	ND
57 Ashland Avenue, Little Calumet River	0.116	0.085	0.114	0.087	0.123	0.128	0.109	0.104	0.126	0.093	0.100
58 Ashland Avenue, Calumet-Sag Channel	0.053	0.058	0.061	0.048	0.052	0.048	0.055	0.066	0.071	0.069	0.078
59 Cicero Avenue, Calumet-Sag Channel	0.049	0.100	0.056	0.056	0.050	0.071	0.078	0.073	0.078	0.064	0.065
43 Route 83, Calumet-Sag Channel	0.053	0.065	0.057	0.054	0.065	0.059	0.094	0.063	0.076	0.063	0.061
Des Plaines River System											
90 Route 19, Poplar Creek	0.076	0.126	0.080	0.080	0.147	0.097	0.083	0.103	0.107	0.155	0.068
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.060	ND	0.151	0.118	0.073
89 Walnut Lane, West Branch DuPage River	0.035	0.059	0.036	0.033	0.044	0.044	0.043	0.074	0.074	0.105	0.038
64 Lake Street, West Branch DuPage River	0.099	0.075	0.073	0.065	0.087	0.071	0.076	0.069	0.092	0.065	0.061
79 Higgins Road, Salt Creek	0.104	0.119	0.110	0.089	0.138	0.124	0.096	0.134	0.124	0.092	0.091
80 Arlington Heights Road, Salt Creek	0.046	0.068	0.059	0.046	0.063	0.057	0.052	0.051	0.051	0.061	0.050
18 Devon Avenue, Salt Creek	0.056	0.071	0.057	0.048	0.053	0.052	0.054	0.052	0.055	0.085	0.069
24 Wolf Road, Salt Creek	0.061	0.065	0.065	0.061	0.059	0.055	0.069	0.066	0.077	0.087	0.065
109 Brookfield Avenue, Salt Creek	0.059	0.069	0.059	0.061	0.065	0.055	0.072	0.042	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.065	0.101	0.061	0.055
77 Elmhurst Road, Higgins Creek	0.092	0.149	0.112	0.107	0.106	0.125	0.115	0.120	0.163	0.133	0.112
78 Wille Road, Higgins Creek	0.032	0.060	0.040	0.030	0.023	0.025	0.033	0.048	0.038	0.064	0.022
12 Lake-Cook Road, Buffalo Creek	0.117	0.145	0.142	0.107	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.064	0.079	0.067	0.067	0.086	0.084	0.083	0.089	0.090	0.071	0.065
17 Oakton Street, Des Plaines River	0.068	0.084	0.065	0.062	0.080	0.067	0.093	0.089	0.102	0.093	0.071
19 Belmont Avenue, Des Plaines River	0.062	0.075	0.060	0.061	0.079	0.061	0.076	0.079	0.090	0.069	0.059
20 Roosevelt Road, Des Plaines River	0.062	0.082	0.061	0.061	0.073	0.062	0.074	0.145	0.077	0.065	0.061
22 Ogden Avenue, Des Plaines River	0.051	0.074	0.076	0.058	0.068	0.058	0.077	0.066	0.075	0.060	0.056
23 Willow Springs Road, Des Plaines River	0.055	0.068	0.050	0.054	0.064	0.075	0.062	0.062	0.083	0.093	0.062
29 Stephen Street, Des Plaines River	0.058	0.085	0.055	0.051	0.066	0.059	0.066	0.060	0.086	0.081	0.064
91 Material Service Road, Des Plaines River	0.054	0.068	0.058	0.054	0.068	0.065	0.068	0.065	0.097	0.061	ND
110 Springinguth Road, West Branch DuPage River	0.125	0.207	0.113	0.129	0.209	0.126	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-100: TOTAL MERCURY MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND
106 Dundee Road, West Fork North Branch Chicago River	0.000	0.000	0.015	0.000	0.000	0.179	0.000	0.028	0.000	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.015	0.039	0.080	0.016	0.045	0.013	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.012	0.013	0.121	0.029	0.015	0.007	0.000	0.019
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.007	0.024	0.034	0.111	0.013	0.034	0.006	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.005	0.022	0.029	0.113	0.019	0.040	0.005	0.024	0.035
105 Frontage Road, Skokie River	0.000	0.000	0.008	0.011	0.062	0.160	0.021	0.030	0.010	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.011	0.010	0.034	0.125	0.012	0.031	0.000	0.022	0.037
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.027	0.006	0.064	0.028	0.016	0.023	0.013	0.000	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.007	0.016	0.000	0.010	0.038	0.006	0.000	0.012
102 Oakton Street, North Shore Channel	0.000	0.000	0.008	0.009	0.068	0.076	0.000	0.025	0.017	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.011	0.040	0.077	0.018	0.018	0.028	0.017	0.006
101 Foster Avenue, North Shore Channel	0.000	0.000	0.008	0.011	0.046	0.067	0.006	0.026	0.013	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.024	0.041	0.095	0.017	0.024	0.018	0.008	0.016
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.011	0.022	0.016	0.010	0.035	0.013	0.059	0.036
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.017	0.009	0.018	0.039	0.041	0.046	0.000	0.028	0.021
74 Lake Shore Drive, Chicago River	0.000	0.000	0.015	0.005	0.000	0.122	0.044	0.020	0.000	0.015	0.025
100 Wells Street, Chicago River	0.000	0.000	0.012	0.016	0.030	0.061	0.033	0.013	0.006	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.013	0.016	0.011	0.021	0.058	0.031	0.000	0.029	0.028
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.013	0.024	0.017	0.034	0.040	0.018	0.019	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.006	0.029	0.020	0.053	0.018	0.018	0.039	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.004	0.023	0.007	0.021	0.033	ND	ND	0.011	0.017
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.018	0.014	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.005	0.022	0.029	0.049	0.038	0.011	0.003	0.028	0.022
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.007	0.017	0.000	0.022	0.021	0.015	0.016	0.026	0.018
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.018	0.016	0.010	0.087	0.023	0.007	0.005	0.015	0.018
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.005	0.018	0.016	0.093	0.031	0.008	0.000	0.005	0.006
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.021
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.010	0.015	0.017	0.079	0.045	0.026	0.013	0.009	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.008	0.000	0.110	0.013	0.018	0.004	0.013	0.008
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.010	0.015	0.005	0.020	0.038	0.021	0.009	0.010	0.021
55 130th Street, Calumet River	0.000	0.000	0.000	0.015	0.017	0.051	0.009	0.031	0.014	0.000	0.035
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.049	0.034	0.148	0.068	0.079	0.055	0.032	0.000	0.051
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.018	0.019	0.000	0.027	0.034	0.021	0.008	0.029
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.021	0.018	0.029	0.007	0.047	0.003	0.005	0.038
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.015	0.036	0.017	0.027	0.034	0.024	0.015	0.016
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.018	0.033	0.000	0.053	0.044	0.004	0.000	0.035
97 170th Street, Thorn Creek	0.000	0.000	0.005	0.015	0.031	0.025	0.034	0.018	0.032	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.012	0.015	0.044	0.052	0.025	0.041	0.020	0.000	0.040
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.007	0.015	0.010	0.032	0.010	0.009	0.008	0.014	0.014
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.018	0.019	0.050	0.007	0.021	0.013	0.016	0.013
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.005	0.010	0.023	0.017	0.007	0.028	0.018	0.008	0.016
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.019	0.008	0.045	0.051	0.016	0.028	0.027	0.000	0.021
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.000	0.000	0.012
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.007	0.008	0.007	0.042	0.016	0.024	0.009	0.017	0.053
64 Lake Street, West Branch DuPage River	0.000	0.000	0.015	0.009	0.013	0.044	0.044	0.029	0.009	0.007	0.060
79 Higgins Road, Salt Creek	0.000	0.000	0.012	0.000	0.008	0.014	0.032	0.051	0.005	0.018	0.058
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.013	0.023	0.025	0.041	0.030	0.009	0.000	0.057
18 Devon Avenue, Salt Creek	0.000	0.000	0.006	0.018	0.044	0.058	0.040	0.008	0.012	0.000	0.061
24 Wolf Road, Salt Creek	0.000	0.000	0.013	0.013	0.011	0.027	0.066	0.045	0.014	0.000	0.044
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.005	0.013	0.000	0.075	0.035	0.023	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.000	0.009	0.000	0.062
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.010	0.000	0.000	0.040	0.048	0.030	0.015	0.000	0.045
78 Wille Road, Higgins Creek	0.000	0.000	0.006	0.013	0.013	0.032	0.038	0.018	0.017	0.008	0.050
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.007	0.010	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.006	0.020	0.014	0.035	0.021	0.023	0.016	0.000	0.056
17 Oakton Street, Des Plaines River	0.000	0.000	0.009	0.013	0.017	0.025	0.075	0.028	0.019	0.000	0.079
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.014	0.000	0.037	0.053	0.041	0.000	0.000	0.062
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.005	0.013	0.013	0.032	0.114	0.038	0.011	0.000	0.064
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.006	0.018	0.013	0.050	0.054	0.055	0.017	0.000	0.064
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.007	0.013	0.013	0.016	0.037	0.090	0.033	0.000	0.095
29 Stephen Street, Des Plaines River	0.000	0.000	0.013	0.047	0.011	0.037	0.016	0.044	0.029	0.000	0.065
91 Material Service Road, Des Plaines River	0.000	0.000	0.007	0.012	0.021	0.017	0.015	0.033	0.016	0.002	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.007	0.009	0.031	0.039	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-101: LOW-LEVEL MERCURY MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (ng/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	6.9	3.7	2.4	5.6	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	11.0	6.9	3.6	9.5	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	3.2	2.9	2.0	3.6	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	3.8	3.9	1.8	6.8	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	6.5	6.3	2.8	6.2	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	3.7	3.6	1.4	3.1	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	5.3	5.5	2.9	5.8	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	6.3	8.0	3.4	5.7	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	2.3	2.3	0.7	1.6	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	4.9	5.4	2.7	4.7	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	5.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	12.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	1.7	1.9	1.4	1.3	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	2.9	2.7	1.6	2.1	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
108 Loomis Street, South Branch Chicago River	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	3.1	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
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	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	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
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	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
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6.1	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	2.1	1.4	0.7	3.1	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	1.9	1.6	0.2	1.8	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	2.1	1.7	1.6	4.2	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	1.4	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
52 Wentworth Avenue, Little Calumet River	8.3	2.7	3.0	6.1	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	4.9	1.6	2.8	2.5	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	8.3	5.4	5.7	10.5	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	8.1	3.6	4.2	7.6	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Calumet-Sag Channel	4.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	2.0	1.5	2.6	2.9	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
89 Walnut Lane, West Branch DuPage River	3.4	3.7	1.6	4.4	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	3.3	2.6	2.3	4.0	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	3.4	2.5	1.5	4.1	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	2.5	1.6	0.5	2.3	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	2.7	1.4	0.9	2.2	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	4.9	3.1	2.7	6.2	ND	ND	ND	ND	ND	ND	ND
109 Brookfield Avenue, Salt Creek	7.3	3.9	2.5	8.6	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	5.8	4.6	2.2	7.8	ND	ND	ND	ND	ND	ND	ND
78 Wille Road, Higgins Creek	2.3	1.7	0.7	2.0	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	4.0	2.1	2.1	3.3	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	2.8	1.5	1.4	3.1	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	3.5	2.2	1.7	3.6	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	3.4	2.7	1.8	3.9	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	4.4	2.9	2.0	4.2	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	5.5	3.3	2.5	6.9	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	5.2	3.4	2.4	5.3	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	5.1	3.3	2.1	6.4	ND	ND	ND	ND	ND	ND	ND
91 Material Service Road, Des Plaines River	4.9	3.0	2.6	6.2	ND	ND	ND	ND	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	3.3	9.8	1.4	4.2	ND	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-102: TOTAL ZINC MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.070	0.079	ND
106 Dundee Road, West Fork North Branch Chicago River	0.027	0.040	0.030	0.045	0.039	0.052	0.045	0.031	0.091	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.012	0.014	0.022	0.026	0.028	0.032	0.028	0.046	0.047	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.005	0.017	0.019	0.029	0.019	0.021	0.022	0.022	0.056	0.020	0.027
104 Glenview Road, North Branch Chicago River	0.053	0.028	0.039	0.049	0.038	0.033	0.038	0.035	0.039	ND	ND
32 Lake-Cook Road, Skokie River	0.009	0.021	0.021	0.036	0.027	0.021	0.024	0.029	0.049	0.024	0.032
105 Frontage Road, Skokie River	0.023	0.021	0.026	0.029	0.035	0.042	0.047	0.043	0.038	ND	ND
34 Dempster Street, North Branch Chicago River	0.015	0.028	0.021	0.025	0.031	0.034	0.046	0.042	0.040	0.036	0.058
96 Albany Avenue, North Branch Chicago River	0.018	0.020	0.023	0.024	0.030	0.032	0.036	0.038	0.041	0.038	ND
35 Central Street, North Shore Channel	0.009	0.004	0.010	0.011	0.019	0.020	0.025	0.028	0.023	0.015	0.007
102 Oakton Street, North Shore Channel	0.013	0.018	0.030	0.027	0.030	0.026	0.042	0.037	0.030	ND	ND
36 Touhy Avenue, North Shore Channel	0.027	0.034	0.038	0.035	0.042	0.040	0.045	0.058	0.055	0.047	0.037
101 Foster Avenue, North Shore Channel	0.026	0.033	0.039	0.035	0.039	0.047	0.046	0.044	0.047	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.025	0.028	0.036	0.032	0.039	0.042	0.043	0.042	0.055	0.046	0.033
73 Diversey Parkway, North Branch Chicago River	0.025	0.030	0.036	0.032	0.037	0.036	0.058	0.045	0.056	0.062	0.043
46 Grand Avenue, North Branch Chicago River	0.029	0.033	0.040	0.041	0.049	0.051	0.064	0.049	0.049	0.049	0.035
74 Lake Shore Drive, Chicago River	0.007	0.010	0.030	0.018	0.029	0.023	0.024	0.023	0.039	0.031	0.011
100 Wells Street, Chicago River	0.012	0.018	0.026	0.021	0.030	0.028	0.030	0.028	0.044	ND	ND
39 Madison Street, South Branch Chicago River	0.028	0.031	0.046	0.029	0.043	0.046	0.042	0.077	0.061	0.043	0.028
108 Loomis Street, South Branch Chicago River	0.030	0.037	0.043	0.033	0.038	0.042	0.041	0.040	0.045	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.023	0.033	0.032	0.028	0.039	0.040	0.038	0.044	0.055	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.030	0.036	0.043	0.042	0.045	0.047	0.065	ND	ND	0.039	0.023
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.045	0.078	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.026	0.034	0.046	0.035	0.040	0.042	0.041	0.046	0.057	0.046	0.033
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.029	0.035	0.046	0.035	0.041	0.037	0.038	0.038	0.046	0.047	0.036
42 Route 83, Chicago Sanitary & Ship Canal	0.028	0.031	0.045	0.032	0.038	0.045	0.047	0.045	0.048	0.036	0.031
48 Stephen Street, Chicago Sanitary & Ship Canal	0.028	0.033	0.045	0.033	0.044	0.056	0.047	0.046	0.052	0.046	0.028
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.075	0.094
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.029	0.035	0.038	0.038	0.049	0.047	0.049	0.050	0.049	0.053	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.008	0.016	0.021	0.016	0.014	0.019	0.018	0.021	0.030	0.022	0.025
50 Burnham Avenue, Wolf Lake	0.009	0.007	0.047	0.008	0.015	0.016	0.019	0.013	0.026	0.015	0.013
55 130th Street, Calumet River	0.005	0.008	0.019	0.053	0.022	0.026	0.022	0.025	0.044	0.022	0.015
86 Burnham Avenue, Grand Calumet River	0.049	0.039	0.053	0.055	0.154	0.062	0.081	0.087	0.075	0.078	0.080
56 Indiana Avenue, Little Calumet River	0.015	0.025	0.033	0.021	0.030	0.032	0.034	0.051	0.034	0.040	0.032
76 Halsted Street, Little Calumet River	0.032	0.059	0.053	0.041	0.051	0.052	0.050	0.065	0.066	0.047	0.027
52 Wentworth Avenue, Little Calumet River	0.027	0.022	0.026	0.027	0.035	0.047	0.036	0.064	0.046	0.045	0.028
54 Joe Orr Road, Thorn Creek	0.042	0.046	0.050	0.050	0.103	0.059	0.040	0.054	0.065	0.060	0.041
97 170th Street, Thorn Creek	0.029	0.031	0.038	0.031	0.046	0.060	0.048	0.054	0.050	ND	ND
57 Ashland Avenue, Little Calumet River	0.033	0.027	0.035	0.027	0.059	0.052	0.050	0.041	0.052	0.060	0.031
58 Ashland Avenue, Calumet-Sag Channel	0.033	0.059	0.048	0.040	0.069	0.060	0.055	0.055	0.066	0.054	0.030
59 Cicero Avenue, Calumet-Sag Channel	0.024	0.038	0.032	0.037	0.044	0.055	0.049	0.053	0.050	0.044	0.036
43 Route 83, Calumet-Sag Channel	0.026	0.030	0.035	0.034	0.055	0.046	0.055	0.051	0.064	0.062	0.035
Des Plaines River System											
90 Route 19, Poplar Creek	0.003	0.014	0.013	0.014	0.035	0.017	0.033	0.027	0.024	0.012	0.015
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.032	ND	0.041	0.022	0.036
89 Walnut Lane, West Branch DuPage River	0.038	0.045	0.042	0.039	0.051	0.062	0.053	0.069	0.061	0.047	0.042
64 Lake Street, West Branch DuPage River	0.035	0.038	0.034	0.044	0.051	0.048	0.051	0.045	0.066	0.037	0.029
79 Higgins Road, Salt Creek	0.008	0.010	0.020	0.015	0.028	0.022	0.029	0.023	0.027	0.018	0.020
80 Arlington Heights Road, Salt Creek	0.023	0.019	0.036	0.025	0.039	0.078	0.036	0.031	0.039	0.034	0.027
18 Devon Avenue, Salt Creek	0.023	0.020	0.024	0.024	0.042	0.034	0.036	0.035	0.035	0.034	0.033
24 Wolf Road, Salt Creek	0.030	0.035	0.034	0.040	0.049	0.050	0.051	0.061	0.054	0.143	0.052
109 Brookfield Avenue, Salt Creek	0.028	0.032	0.032	0.040	0.050	0.040	0.049	0.045	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.049	0.059	0.038	0.041
77 Elmhurst Road, Higgins Creek	0.021	0.051	0.035	0.042	0.041	0.053	0.050	0.040	0.041	0.032	0.025
78 Wille Road, Higgins Creek	0.036	0.050	0.047	0.049	0.076	0.066	0.066	0.075	0.062	0.067	0.045
12 Lake-Cook Road, Buffalo Creek	0.017	0.016	0.019	0.017	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.019	0.032	0.025	0.024	0.036	0.034	0.043	0.039	0.036	0.030	0.023
17 Oakton Street, Des Plaines River	0.016	0.019	0.023	0.024	0.037	0.032	0.048	0.038	0.037	0.033	0.025
19 Belmont Avenue, Des Plaines River	0.020	0.028	0.029	0.033	0.054	0.040	0.060	0.044	0.041	0.030	0.025
20 Roosevelt Road, Des Plaines River	0.023	0.033	0.031	0.034	0.046	0.037	0.059	0.047	0.038	0.029	0.033
22 Ogden Avenue, Des Plaines River	0.021	0.036	0.037	0.037	0.046	0.036	0.055	0.043	0.050	0.047	0.040
23 Willow Springs Road, Des Plaines River	0.020	0.028	0.028	0.034	0.043	0.037	0.045	0.037	0.048	0.056	0.035
29 Stephen Street, Des Plaines River	0.021	0.027	0.033	0.033	0.042	0.035	0.048	0.041	0.047	0.043	0.031
91 Material Service Road, Des Plaines River	0.020	0.027	0.027	0.033	0.040	0.039	0.052	0.037	0.049	0.046	ND
110 Springinguth Road, West Branch DuPage River	0.018	0.029	0.036	0.023	0.035	0.031	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-103: TOTAL SELENIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND
106 Dundee Road, West Fork North Branch Chicago River	0.011	0.000	0.000	0.003	0.007	0.010	0.003	0.010	0.000	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.006	0.015	0.003	0.007	0.006	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.001	0.005	0.014	0.005	0.005	0.005	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.001	0.004	0.011	0.002	0.003	0.000	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.001	0.005	0.012	0.005	0.009	0.002	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.001	0.006	0.012	0.006	0.002	0.002	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.001	0.006	0.012	0.008	0.010	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.004	0.009	0.006	0.006	0.004	0.000	ND
35 Central Street, North Shore Channel	0.013	0.000	0.000	0.000	0.007	0.008	0.003	0.008	0.007	0.000	0.000
102 Oakton Street, North Shore Channel	0.012	0.000	0.000	0.002	0.004	0.011	0.004	0.002	0.000	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.008	0.010	0.008	0.008	0.002	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.006	0.010	0.006	0.013	0.004	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.007	0.011	0.006	0.017	0.007	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.001	0.005	0.010	0.006	0.012	0.000	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.009	0.010	0.007	0.006	0.006	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.006	0.009	0.005	0.009	0.003	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.005	0.008	0.004	0.010	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.007	0.009	0.004	0.010	0.003	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.008	0.007	0.004	0.010	0.003	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.006	0.009	0.005	0.010	0.002	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.008	0.008	0.005	ND	ND	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.008	0.007	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.010	0.008	0.004	0.010	0.007	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.008	0.010	0.004	0.006	0.004	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.007	0.008	0.004	0.008	0.005	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.007	0.008	0.005	0.009	0.007	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.004
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.004	0.000	0.000	0.000	0.007	0.011	0.005	0.007	0.009	0.001	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.014	0.000	0.000	0.000	0.004	0.008	0.005	0.005	0.003	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.004	0.007	0.003	0.004	0.003	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.005	0.011	0.003	0.008	0.004	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.005	0.015	0.004	0.009	0.006	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.005	0.008	0.003	0.009	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.010	0.000	0.000	0.000	0.006	0.011	0.007	0.006	0.008	0.017	0.000
52 Wentworth Avenue, Little Calumet River	0.013	0.000	0.000	0.000	0.004	0.012	0.003	0.012	0.008	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.013	0.000	0.000	0.000	0.005	0.006	0.009	0.009	0.003	0.000	0.000
97 170th Street, Thorn Creek	0.011	0.000	0.000	0.000	0.005	0.008	0.005	0.008	0.004	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.007	0.012	0.004	0.007	0.007	0.000	0.000
58 Ashland Avenue, Calumet-Sag Channel	0.013	0.000	0.000	0.000	0.005	0.010	0.006	0.012	0.003	0.000	0.000
59 Cicero Avenue, Calumet-Sag Channel	0.013	0.000	0.000	0.000	0.005	0.013	0.003	0.005	0.008	0.000	0.000
43 Route 83, Calumet-Sag Channel	0.013	0.000	0.000	0.000	0.005	0.010	0.004	0.011	0.002	0.000	0.000
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.008	0.013	0.016	0.010	0.004	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.005	0.000	0.000
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.001	0.008	0.012	0.005	0.010	0.007	0.000	0.000
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.008	0.013	0.005	0.007	0.005	0.000	0.000
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.002	0.007	0.013	0.001	0.003	0.011	0.000	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.009	0.010	0.003	0.016	0.010	0.000	0.000
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.008	0.011	0.005	0.005	0.008	0.000	0.000
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.009	0.012	0.003	0.003	0.012	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.007	0.011	0.003	0.004	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.020	0.007	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.010	0.014	0.005	0.008	0.008	0.000	0.000
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.001	0.008	0.011	0.006	0.010	0.007	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.007	0.014	0.006	0.007	0.009	0.000	0.000
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.006	0.011	0.004	0.010	0.003	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.007	0.010	0.004	0.008	0.008	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.007	0.013	0.002	0.006	0.007	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.009	0.000	0.000	0.000	0.010	0.011	0.007	0.017	0.008	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.008	0.010	0.004	0.006	0.005	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.008	0.011	0.003	0.003	0.006	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.002	0.010	0.013	0.005	0.003	0.005	0.005	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.009	0.014	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-104: SOLUBLE CALCIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	65.8	68.8	70.9	57.9	65.7	81.4	53.7	73.3	70.3	ND	ND
103 Golf Road, West Fork North Branch Chicago River	65.2	65.8	72.2	70.4	74.0	69.0	66.0	66.2	66.1	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	55.7	59.0	63.4	58.4	59.4	62.4	62.0	65.9	65.6	ND	ND
104 Glenview Road, North Branch Chicago River	59.7	63.2	61.4	58.1	55.5	62.9	65.7	63.7	63.0	ND	ND
32 Lake-Cook Road, Skokie River	61.4	62.6	72.8	63.1	64.0	70.5	66.4	69.8	73.8	ND	ND
105 Frontage Road, Skokie River	60.5	63.6	60.2	59.9	55.7	61.7	56.8	62.0	61.8	ND	ND
34 Dempster Street, North Branch Chicago River	59.5	61.7	62.6	62.8	61.6	65.7	61.4	63.1	61.1	ND	ND
96 Albany Avenue, North Branch Chicago River	62.6	65.2	64.7	64.7	63.7	64.1	62.4	64.7	63.3	ND	ND
35 Central Street, North Shore Channel	35.3	38.1	38.6	35.3	32.8	36.4	39.0	39.5	34.7	ND	ND
102 Oakton Street, North Shore Channel	46.1	45.8	47.0	45.2	42.7	44.4	46.2	47.4	39.7	ND	ND
36 Touhy Avenue, North Shore Channel	58.3	57.9	53.7	49.8	46.8	54.6	51.1	54.8	52.7	ND	ND
101 Foster Avenue, North Shore Channel	56.0	59.0	56.6	51.5	47.4	54.7	52.2	54.4	53.5	ND	ND
37 Wilson Avenue, North Branch Chicago River	56.4	60.1	56.8	53.4	49.6	57.6	53.8	55.8	55.6	ND	ND
73 Diversey Parkway, North Branch Chicago River	56.7	60.8	56.4	53.7	49.1	58.1	52.7	55.1	56.4	ND	ND
46 Grand Avenue, North Branch Chicago River	54.8	58.8	56.4	54.0	52.7	57.5	54.4	55.1	56.5	ND	ND
74 Lake Shore Drive, Chicago River	36.0	37.5	40.6	36.7	37.9	40.1	39.1	40.2	41.4	ND	ND
100 Wells Street, Chicago River	42.6	47.0	44.5	42.3	41.8	43.5	46.2	43.9	46.4	ND	ND
39 Madison Street, South Branch Chicago River	51.7	52.8	49.1	49.0	49.0	50.2	53.0	53.3	48.9	ND	ND
108 Loomis Street, South Branch Chicago River	52.3	53.1	49.8	50.7	51.2	50.4	51.5	52.9	48.6	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	50.6	56.2	49.4	49.3	48.5	50.7	49.8	50.9	48.6	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	52.8	52.7	50.4	49.6	49.8	50.5	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	53.0	47.9	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	50.9	57.0	50.9	48.2	51.1	51.6	49.9	52.5	48.9	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	56.2	57.7	53.0	47.5	51.4	53.5	52.0	52.4	50.7	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	54.4	57.3	54.1	52.8	53.6	54.7	55.2	54.1	51.6	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	54.4	58.8	55.7	55.9	56.1	59.0	57.7	55.8	56.7	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	56.3	59.2	56.9	55.0	54.9	56.8	55.7	56.4	57.0	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	34.2	34.3	35.1	32.2	34.4	35.1	35.8	36.4	35.4	ND	ND
50 Burnham Avenue, Wolf Lake	34.8	35.0	34.7	28.7	34.8	35.1	31.8	30.4	28.4	ND	ND
55 130th Street, Calumet River	41.2	41.5	45.6	38.4	40.9	40.5	41.1	42.4	43.0	ND	ND
86 Burnham Avenue, Grand Calumet River	80.8	91.4	86.4	92.8	64.3	77.0	83.9	75.5	69.2	ND	ND
56 Indiana Avenue, Little Calumet River	47.4	49.4	51.5	45.1	44.7	45.7	47.4	51.7	48.5	ND	ND
76 Halsted Street, Little Calumet River	61.1	65.8	63.3	58.2	60.7	60.4	59.3	60.1	63.1	ND	ND
52 Wentworth Avenue, Little Calumet River	71.7	88.8	74.3	80.9	70.9	82.2	90.7	87.2	70.1	ND	ND
54 Joe Orr Road, Thorn Creek	74.1	84.4	74.9	79.6	66.9	77.3	60.7	79.1	74.1	ND	ND
97 170th Street, Thorn Creek	75.3	85.3	68.0	80.8	78.0	81.3	77.4	85.8	74.7	ND	ND
57 Ashland Avenue, Little Calumet River	69.2	80.5	66.1	77.8	68.9	74.3	82.1	80.2	67.7	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	59.3	65.7	59.6	61.7	63.2	61.9	62.8	63.4	62.9	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	60.8	66.3	58.3	65.2	61.6	62.8	61.7	62.3	62.6	ND	ND
43 Route 83, Calumet-Sag Channel	59.3	65.4	59.4	63.0	60.7	59.9	61.1	60.8	64.0	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	65.5	70.4	66.6	67.0	60.5	70.9	60.5	72.1	66.9	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	53.2	ND	84.6	ND	ND
89 Walnut Lane, West Branch DuPage River	64.9	60.4	60.5	63.2	54.8	58.7	53.0	58.2	58.8	ND	ND
64 Lake Street, West Branch DuPage River	64.0	64.7	56.5	61.2	56.7	63.0	52.7	60.3	62.1	ND	ND
79 Higgins Road, Salt Creek	60.4	68.4	61.9	60.6	60.1	69.8	53.0	59.0	72.1	ND	ND
80 Arlington Heights Road, Salt Creek	59.0	68.9	61.6	61.9	62.7	61.9	56.7	63.8	60.0	ND	ND
18 Devon Avenue, Salt Creek	58.2	67.4	61.5	62.0	61.9	61.9	57.2	63.5	61.8	ND	ND
24 Wolf Road, Salt Creek	66.4	69.0	61.9	60.7	59.7	66.4	56.9	69.6	66.2	ND	ND
109 Brookfield Avenue, Salt Creek	63.6	65.3	60.7	59.6	58.2	66.2	55.1	55.4	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	84.9	66.1	ND	ND
77 Elmhurst Road, Higgins Creek	50.2	58.8	40.9	52.5	52.2	70.0	46.3	57.1	64.0	ND	ND
78 Wille Road, Higgins Creek	76.9	75.0	68.0	66.7	64.0	67.1	61.2	70.5	76.1	ND	ND
12 Lake-Cook Road, Buffalo Creek	66.9	76.2	68.6	70.9	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	59.7	70.8	64.4	69.4	63.4	66.9	62.0	70.2	68.8	ND	ND
17 Oakton Street, Des Plaines River	58.9	68.2	62.6	67.1	62.6	68.1	59.4	68.7	69.1	ND	ND
19 Belmont Avenue, Des Plaines River	61.1	69.4	61.6	66.5	62.5	67.8	59.3	68.5	67.8	ND	ND
20 Roosevelt Road, Des Plaines River	59.2	69.5	60.4	65.2	60.7	67.6	54.0	69.8	68.1	ND	ND
22 Ogden Avenue, Des Plaines River	59.3	65.7	59.5	62.8	58.0	65.6	64.9	69.2	66.2	ND	ND
23 Willow Springs Road, Des Plaines River	59.5	67.3	59.4	62.1	59.2	66.9	56.2	66.9	66.6	ND	ND
29 Stephen Street, Des Plaines River	59.1	68.5	63.2	66.1	62.3	67.1	60.3	70.4	67.3	ND	ND
91 Material Service Road, Des Plaines River	60.5	67.9	62.4	67.2	61.8	67.1	62.2	70.4	64.6	ND	ND
110 Springinguth Road, West Branch DuPage River	73.7	79.6	77.6	83.4	72.6	79.9	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-105: SOLUBLE MAGNESIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	27.8	29.2	28.1	23.9	27.3	33.3	21.6	31.8	34.0	ND	ND
103 Golf Road, West Fork North Branch Chicago River	26.3	26.0	29.2	28.7	29.9	26.5	26.0	27.8	30.8	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	24.3	25.0	28.9	27.0	30.8	28.1	27.6	30.6	30.8	ND	ND
104 Glenview Road, North Branch Chicago River	25.6	26.7	26.8	25.5	25.4	26.5	28.0	27.8	29.4	ND	ND
32 Lake-Cook Road, Skokie River	25.5	26.0	30.9	28.3	30.2	30.0	27.9	31.0	31.5	ND	ND
105 Frontage Road, Skokie River	26.0	26.8	26.0	26.0	25.0	26.1	23.9	27.2	28.8	ND	ND
34 Dempster Street, North Branch Chicago River	24.8	25.5	27.0	26.8	27.2	26.9	24.8	27.0	27.2	ND	ND
96 Albany Avenue, North Branch Chicago River	26.1	26.4	27.8	27.3	27.7	26.4	25.7	27.3	28.8	ND	ND
35 Central Street, North Shore Channel	12.3	13.0	13.3	11.9	11.3	12.1	13.4	13.8	11.3	ND	ND
102 Oakton Street, North Shore Channel	16.3	15.8	16.5	15.9	15.2	15.0	15.6	16.4	14.6	ND	ND
36 Touhy Avenue, North Shore Channel	20.8	21.0	19.2	18.0	16.8	19.1	18.2	19.9	19.8	ND	ND
101 Foster Avenue, North Shore Channel	19.8	21.4	20.1	18.7	16.9	19.4	18.5	19.7	20.1	ND	ND
37 Wilson Avenue, North Branch Chicago River	20.7	22.4	20.9	20.1	18.2	20.9	19.4	20.9	21.7	ND	ND
73 Diversey Parkway, North Branch Chicago River	20.6	22.6	20.9	20.0	17.8	21.0	18.8	20.4	22.0	ND	ND
46 Grand Avenue, North Branch Chicago River	19.9	21.5	20.8	20.1	19.5	20.5	19.4	20.3	21.9	ND	ND
74 Lake Shore Drive, Chicago River	12.3	12.8	14.3	12.6	13.4	14.1	13.1	13.7	14.3	ND	ND
100 Wells Street, Chicago River	15.0	16.7	15.7	15.0	14.7	15.3	16.0	15.5	17.1	ND	ND
39 Madison Street, South Branch Chicago River	18.9	19.1	17.8	18.2	17.8	17.9	19.1	19.8	18.4	ND	ND
108 Loomis Street, South Branch Chicago River	19.0	19.0	18.0	18.8	18.9	18.0	18.1	19.7	17.9	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	17.8	20.2	17.6	18.1	17.4	18.0	17.5	18.5	17.9	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	19.1	19.2	18.1	18.4	18.3	18.0	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	19.8	18.1	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	18.4	20.8	18.4	17.6	18.8	18.5	17.3	19.6	18.3	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	20.2	21.2	19.0	17.6	18.9	19.1	18.1	19.3	19.2	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	19.6	20.7	19.7	19.5	19.8	19.7	19.5	20.0	19.8	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	19.5	21.2	20.6	20.7	21.0	21.4	20.4	20.8	21.7	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	20.4	21.2	21.0	20.3	20.4	20.6	20.1	20.9	22.3	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	11.3	11.4	11.7	10.5	11.5	11.6	11.9	11.8	11.4	ND	ND
50 Burnham Avenue, Wolf Lake	11.5	12.0	11.7	11.3	13.1	13.0	12.2	12.6	11.2	ND	ND
55 130th Street, Calumet River	14.0	14.0	15.7	13.0	14.2	13.9	13.7	14.5	15.0	ND	ND
86 Burnham Avenue, Grand Calumet River	37.1	36.8	38.6	47.6	43.0	50.1	62.4	64.5	49.4	ND	ND
56 Indiana Avenue, Little Calumet River	16.5	17.2	19.1	16.3	16.7	17.2	17.4	21.2	19.1	ND	ND
76 Halsted Street, Little Calumet River	21.2	23.0	22.3	20.7	21.7	21.1	20.1	21.5	23.4	ND	ND
52 Wentworth Avenue, Little Calumet River	27.4	34.6	29.7	32.0	28.6	32.1	35.3	35.5	29.5	ND	ND
54 Joe Orr Road, Thorn Creek	28.0	31.7	29.6	34.8	30.2	32.5	24.8	35.9	35.2	ND	ND
97 170th Street, Thorn Creek	29.9	34.4	27.3	35.7	35.0	35.2	33.5	42.6	36.5	ND	ND
57 Ashland Avenue, Little Calumet River	26.9	31.4	25.9	32.8	29.1	30.1	33.3	34.7	30.7	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	21.4	23.4	21.5	22.4	23.2	22.3	22.8	24.2	23.9	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	22.0	23.8	20.9	24.1	22.7	23.1	22.2	23.3	24.0	ND	ND
43 Route 83, Calumet-Sag Channel	21.9	23.8	21.9	23.6	22.7	22.1	22.2	23.3	24.9	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	28.6	31.6	30.1	29.5	28.2	32.3	26.4	32.5	32.3	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	19.4	ND	34.8	ND	ND
89 Walnut Lane, West Branch DuPage River	25.1	23.1	23.0	23.9	20.9	21.8	18.9	22.2	23.7	ND	ND
64 Lake Street, West Branch DuPage River	24.4	24.3	21.8	22.9	21.8	23.3	18.9	23.0	24.5	ND	ND
79 Higgins Road, Salt Creek	25.7	28.4	26.0	25.4	27.6	29.4	21.2	27.4	34.0	ND	ND
80 Arlington Heights Road, Salt Creek	22.5	26.4	24.3	24.3	25.0	23.6	21.8	25.5	24.5	ND	ND
18 Devon Avenue, Salt Creek	22.6	25.8	24.3	24.4	24.6	23.6	21.4	25.1	25.3	ND	ND
24 Wolf Road, Salt Creek	26.3	27.4	25.3	24.6	25.3	26.9	21.9	28.6	29.1	ND	ND
109 Brookfield Avenue, Salt Creek	25.2	26.2	24.8	24.1	24.6	26.8	21.4	22.9	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	33.6	28.7	ND	ND
77 Elmhurst Road, Higgins Creek	18.1	19.1	13.9	17.7	17.8	25.4	14.3	20.1	26.3	ND	ND
78 Wille Road, Higgins Creek	29.0	28.0	25.3	24.9	24.3	24.7	21.7	26.1	30.4	ND	ND
12 Lake-Cook Road, Buffalo Creek	28.7	33.3	30.2	31.8	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	26.7	31.4	29.4	31.7	28.9	30.1	27.1	32.3	32.5	ND	ND
17 Oakton Street, Des Plaines River	25.9	29.7	28.5	30.3	28.6	30.7	25.6	31.4	33.0	ND	ND
19 Belmont Avenue, Des Plaines River	26.4	29.5	27.3	29.0	27.7	30.0	23.8	30.2	31.4	ND	ND
20 Roosevelt Road, Des Plaines River	25.6	29.7	27.0	28.4	27.2	30.0	22.3	30.9	31.8	ND	ND
22 Ogden Avenue, Des Plaines River	25.1	27.6	25.8	26.7	25.6	28.5	25.3	29.9	30.2	ND	ND
23 Willow Springs Road, Des Plaines River	25.5	28.5	26.1	26.8	26.4	29.3	22.9	29.5	30.7	ND	ND
29 Stephen Street, Des Plaines River	25.1	28.8	27.8	28.4	27.6	29.2	24.6	30.2	30.5	ND	ND
91 Material Service Road, Des Plaines River	25.6	28.7	27.5	29.1	27.7	29.3	25.5	30.8	29.3	ND	ND
110 Springinguth Road, West Branch DuPage River	27.2	29.3	28.5	29.9	26.7	29.4	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-106: SOLUBLE SILVER MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)											
	09	08	07	06	05	04	03	02	01	00	99	
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	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	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	0.000	0.000	0.001	0.001	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.001	ND	0.000	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND

ND = No Data.

**TABLE AII-107: SOLUBLE ARSENIC MEAN HISTORY
1999 THROUGH 2009**

Sampling Station (No. Name)	Annual Means (mg/L)											
	09	08	07	06	05	04	03	02	01	00	99	
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	0.000	0.000	0.000	0.000	0.002	0.004	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.004	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.002	0.002	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.002	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.003	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.006	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.004	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.005	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.002	0.000	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.002	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	0.000	0.000	0.002	0.002	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.001	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.004	0.002	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.002	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.004	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.003	0.001	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.000	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.002	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.003	0.005	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.006	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-108: SOLUBLE BARIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)											
	09	08	07	06	05	04	03	02	01	00	99	
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	0.051	0.052	0.054	0.042	0.043	0.054	0.034	0.044	0.053	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.042	0.043	0.046	0.044	0.046	0.042	0.043	0.040	0.040	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.032	0.035	0.037	0.035	0.034	0.034	0.037	0.036	0.040	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.028	0.032	0.030	0.028	0.026	0.028	0.033	0.027	0.030	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.034	0.036	0.042	0.035	0.035	0.040	0.039	0.039	0.040	ND	ND	ND
105 Frontage Road, Skokie River	0.026	0.030	0.027	0.026	0.025	0.025	0.024	0.025	0.029	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.030	0.034	0.033	0.033	0.032	0.033	0.032	0.030	0.033	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.033	0.037	0.035	0.034	0.033	0.032	0.032	0.032	0.033	ND	ND	ND
35 Central Street, North Shore Channel	0.019	0.022	0.022	0.020	0.019	0.020	0.021	0.022	0.021	ND	ND	ND
102 Oakton Street, North Shore Channel	0.021	0.022	0.022	0.020	0.021	0.020	0.021	0.019	0.021	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.024	0.024	0.022	0.019	0.018	0.019	0.017	0.019	0.019	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.023	0.025	0.023	0.020	0.018	0.019	0.018	0.018	0.018	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.025	0.027	0.024	0.022	0.020	0.021	0.020	0.021	0.021	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.024	0.027	0.023	0.021	0.019	0.021	0.019	0.020	0.022	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.023	0.026	0.023	0.021	0.020	0.020	0.019	0.019	0.021	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.021	0.022	0.022	0.021	0.021	0.020	0.021	0.021	0.021	ND	ND	ND
100 Wells Street, Chicago River	0.023	0.024	0.022	0.021	0.020	0.020	0.020	0.021	0.022	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.023	0.024	0.022	0.021	0.020	0.019	0.017	0.020	0.021	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.023	0.024	0.022	0.022	0.021	0.019	0.019	0.020	0.021	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.023	0.026	0.022	0.021	0.020	0.018	0.017	0.020	0.023	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.024	0.024	0.022	0.021	0.020	0.019	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.020	0.020	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.022	0.025	0.022	0.020	0.020	0.019	0.017	0.020	0.020	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.020	0.022	0.019	0.016	0.016	0.016	0.015	0.017	0.017	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.019	0.020	0.017	0.017	0.016	0.016	0.015	0.016	0.017	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.019	0.021	0.018	0.018	0.017	0.017	0.017	0.017	0.019	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	0.020	0.021	0.019	0.018	0.017	0.018	0.017	0.018	0.019	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.020	0.021	0.020	0.019	0.020	0.020	0.019	0.021	0.022	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.032	0.033	0.034	0.025	0.030	0.029	0.025	0.024	0.025	ND	ND	ND
55 130th Street, Calumet River	0.028	0.029	0.030	0.026	0.027	0.027	0.024	0.029	0.031	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.023	0.025	0.022	0.019	0.016	0.016	0.018	0.017	0.017	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.029	0.030	0.029	0.026	0.025	0.026	0.023	0.028	0.028	ND	ND	ND
76 Halsted Street, Little Calumet River	0.021	0.021	0.021	0.017	0.018	0.018	0.016	0.018	0.022	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.030	0.034	0.029	0.033	0.028	0.033	0.034	0.032	0.031	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.026	0.030	0.025	0.029	0.026	0.030	0.024	0.026	0.024	ND	ND	ND
97 170th Street, Thorn Creek	0.031	0.034	0.028	0.033	0.032	0.034	0.027	0.029	0.028	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.030	0.034	0.029	0.033	0.029	0.032	0.032	0.030	0.028	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.022	0.022	0.022	0.019	0.020	0.020	0.018	0.020	0.021	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.023	0.023	0.021	0.021	0.019	0.021	0.019	0.019	0.021	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.022	0.024	0.023	0.021	0.019	0.021	0.017	0.020	0.022	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.059	0.065	0.071	0.085	0.095	0.091	0.071	0.061	0.055	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.035	ND	0.058	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.028	0.028	0.027	0.027	0.022	0.022	0.024	0.024	0.024	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.030	0.031	0.026	0.029	0.026	0.026	0.025	0.028	0.029	ND	ND	ND
79 Higgins Road, Salt Creek	0.034	0.042	0.039	0.037	0.041	0.045	0.036	0.035	0.048	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.024	0.028	0.024	0.028	0.028	0.024	0.027	0.024	0.025	ND	ND	ND
18 Devon Avenue, Salt Creek	0.024	0.028	0.024	0.028	0.027	0.024	0.026	0.024	0.027	ND	ND	ND
24 Wolf Road, Salt Creek	0.029	0.032	0.029	0.027	0.025	0.028	0.024	0.028	0.031	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.029	0.032	0.029	0.027	0.026	0.029	0.025	0.022	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.037	0.032	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.038	0.051	0.036	0.048	0.049	0.059	0.040	0.048	0.056	ND	ND	ND
78 Wille Road, Higgins Creek	0.027	0.023	0.022	0.021	0.018	0.019	0.018	0.022	0.024	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.037	0.043	0.039	0.041	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.028	0.034	0.034	0.038	0.031	0.031	0.031	0.034	0.033	ND	ND	ND
17 Oakton Street, Des Plaines River	0.029	0.035	0.035	0.041	0.033	0.033	0.032	0.035	0.035	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.029	0.035	0.033	0.037	0.031	0.032	0.027	0.033	0.033	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.028	0.035	0.033	0.037	0.031	0.033	0.027	0.034	0.034	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.028	0.033	0.031	0.033	0.028	0.031	0.027	0.032	0.033	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.028	0.034	0.031	0.033	0.029	0.031	0.027	0.031	0.033	ND	ND	ND
29 Stephen Street, Des Plaines River	0.028	0.033	0.032	0.034	0.028	0.031	0.028	0.032	0.032	ND	ND	ND
91 Material Service Road, Des Plaines River	0.028	0.034	0.032	0.033	0.027	0.030	0.028	0.031	0.031	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.040	0.046	0.043	0.049	0.044	0.046	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-109: SOLUBLE BORON MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	0.147	0.146	0.143	0.126	0.176	0.195	0.132	0.118	0.158	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.122	0.103	0.149	0.138	0.178	0.130	0.122	0.139	0.139	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.074	0.079	0.110	0.111	0.163	0.162	0.098	0.101	0.093	ND	ND
104 Glenview Road, North Branch Chicago River	0.115	0.111	0.141	0.133	0.170	0.146	0.130	0.148	0.143	ND	ND
32 Lake-Cook Road, Skokie River	0.105	0.093	0.115	0.128	0.151	0.123	0.115	0.103	0.098	ND	ND
105 Frontage Road, Skokie River	0.129	0.118	0.150	0.151	0.175	0.161	0.174	0.167	0.148	ND	ND
34 Dempster Street, North Branch Chicago River	0.111	0.113	0.139	0.135	0.174	0.143	0.159	0.151	0.111	ND	ND
96 Albany Avenue, North Branch Chicago River	0.120	0.105	0.139	0.141	0.177	0.141	0.150	0.148	0.129	ND	ND
35 Central Street, North Shore Channel	0.036	0.033	0.035	0.035	0.030	0.032	0.044	0.030	0.023	ND	ND
102 Oakton Street, North Shore Channel	0.083	0.074	0.088	0.109	0.085	0.071	0.081	0.104	0.060	ND	ND
36 Touhy Avenue, North Shore Channel	0.156	0.164	0.186	0.180	0.168	0.158	0.173	0.169	0.196	ND	ND
101 Foster Avenue, North Shore Channel	0.148	0.162	0.183	0.184	0.164	0.159	0.157	0.158	0.186	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.136	0.144	0.160	0.162	0.155	0.147	0.148	0.144	0.169	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.131	0.138	0.166	0.155	0.150	0.148	0.155	0.141	0.160	ND	ND
46 Grand Avenue, North Branch Chicago River	0.123	0.129	0.155	0.152	0.161	0.142	0.150	0.146	0.168	ND	ND
74 Lake Shore Drive, Chicago River	0.041	0.054	0.057	0.055	0.053	0.060	0.050	0.044	0.064	ND	ND
100 Wells Street, Chicago River	0.061	0.077	0.070	0.074	0.073	0.082	0.096	0.068	0.081	ND	ND
39 Madison Street, South Branch Chicago River	0.106	0.107	0.107	0.118	0.126	0.130	0.130	0.125	0.117	ND	ND
108 Loomis Street, South Branch Chicago River	0.106	0.111	0.110	0.121	0.126	0.125	0.118	0.123	0.119	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.104	0.122	0.114	0.114	0.128	0.125	0.130	0.121	0.121	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.106	0.108	0.108	0.119	0.126	0.129	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.123	0.115	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.099	0.128	0.119	0.117	0.126	0.126	0.132	0.130	0.119	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.154	0.155	0.168	0.161	0.165	0.187	0.176	0.169	0.163	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.171	0.166	0.212	0.205	0.207	0.236	0.206	0.218	0.189	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.161	0.168	0.196	0.198	0.201	0.199	0.202	0.211	0.205	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	0.167	0.179	0.198	0.209	0.209	0.185	0.186	0.185	0.187	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.038	0.036	0.042	0.044	0.036	0.030	0.028	0.029	0.037	ND	ND
50 Burnham Avenue, Wolf Lake	0.239	0.172	0.169	0.108	0.142	0.131	0.082	0.088	0.097	ND	ND
55 130th Street, Calumet River	0.123	0.117	0.152	0.103	0.109	0.094	0.065	0.108	0.124	ND	ND
86 Burnham Avenue, Grand Calumet River	0.357	0.642	0.528	0.578	0.271	0.403	0.375	0.358	0.327	ND	ND
56 Indiana Avenue, Little Calumet River	0.134	0.146	0.167	0.131	0.111	0.109	0.113	0.145	0.143	ND	ND
76 Halsted Street, Little Calumet River	0.176	0.197	0.195	0.218	0.193	0.170	0.177	0.186	0.194	ND	ND
52 Wentworth Avenue, Little Calumet River	0.175	0.250	0.228	0.231	0.216	0.220	0.256	0.296	0.185	ND	ND
54 Joe Orr Road, Thorn Creek	0.263	0.316	0.314	0.391	0.252	0.288	0.243	0.327	0.324	ND	ND
97 170th Street, Thorn Creek	0.214	0.237	0.222	0.290	0.235	0.242	0.230	0.290	0.228	ND	ND
57 Ashland Avenue, Little Calumet River	0.199	0.227	0.200	0.247	0.222	0.196	0.254	0.247	0.198	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.167	0.191	0.174	0.219	0.199	0.173	0.181	0.208	0.203	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.163	0.192	0.167	0.214	0.189	0.177	0.184	0.188	0.194	ND	ND
43 Route 83, Calumet-Sag Channel	0.158	0.176	0.168	0.198	0.195	0.165	0.156	0.172	0.195	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.050	0.051	0.055	0.057	0.061	0.049	0.046	0.041	0.047	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.039	ND	0.068	ND	ND
89 Walnut Lane, West Branch DuPage River	0.211	0.214	0.248	0.242	0.267	0.245	0.231	0.262	0.296	ND	ND
64 Lake Street, West Branch DuPage River	0.157	0.183	0.188	0.186	0.222	0.209	0.204	0.203	0.222	ND	ND
79 Higgins Road, Salt Creek	0.085	0.083	0.084	0.088	0.092	0.081	0.068	0.077	0.090	ND	ND
80 Arlington Heights Road, Salt Creek	0.147	0.168	0.196	0.186	0.192	0.179	0.171	0.185	0.217	ND	ND
18 Devon Avenue, Salt Creek	0.143	0.165	0.199	0.190	0.198	0.172	0.164	0.174	0.208	ND	ND
24 Wolf Road, Salt Creek	0.150	0.176	0.183	0.184	0.227	0.175	0.160	0.198	0.182	ND	ND
109 Brookfield Avenue, Salt Creek	0.156	0.180	0.181	0.199	0.254	0.178	0.158	0.227	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.159	0.182	ND	ND
77 Elmhurst Road, Higgins Creek	0.067	0.113	0.089	0.078	0.074	0.077	0.055	0.057	0.103	ND	ND
78 Wille Road, Higgins Creek	0.201	0.235	0.254	0.285	0.341	0.284	0.256	0.306	0.384	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.083	0.088	0.093	0.099	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.121	0.150	0.153	0.170	0.211	0.168	0.179	0.162	0.159	ND	ND
17 Oakton Street, Des Plaines River	0.111	0.141	0.138	0.151	0.204	0.158	0.165	0.152	0.151	ND	ND
19 Belmont Avenue, Des Plaines River	0.121	0.151	0.152	0.166	0.225	0.168	0.169	0.178	0.169	ND	ND
20 Roosevelt Road, Des Plaines River	0.116	0.163	0.152	0.166	0.230	0.165	0.184	0.189	0.164	ND	ND
22 Ogden Avenue, Des Plaines River	0.128	0.162	0.156	0.184	0.229	0.162	0.182	0.191	0.161	ND	ND
23 Willow Springs Road, Des Plaines River	0.125	0.166	0.158	0.182	0.234	0.165	0.165	0.203	0.161	ND	ND
29 Stephen Street, Des Plaines River	0.119	0.157	0.167	0.189	0.235	0.161	0.184	0.182	0.154	ND	ND
91 Material Service Road, Des Plaines River	0.122	0.158	0.170	0.196	0.241	0.161	0.195	0.193	0.155	ND	ND
110 Springinguth Road, West Branch DuPage River	0.084	0.094	0.076	0.077	0.074	0.110	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-110: SOLUBLE CADMIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)											
	09	08	07	06	05	04	03	02	01	00	99	
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	0.000	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.001	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	0.000	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
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	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
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	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.001	0.001	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.001	0.001	0.001	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.001	0.001	0.000	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-111: SOLUBLE COPPER MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	0.001	0.000	0.004	0.003	0.003	0.009	0.005	0.010	0.010	0.010	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.000	0.001	0.002	0.002	0.007	0.007	0.007	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.007	0.004	0.004	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.006	0.004	0.004	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.007	0.005	0.005	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.001	0.002	0.002	0.001	0.008	0.003	0.003	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.006	0.004	0.004	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.006	0.004	0.004	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.006	0.003	0.003	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.004	0.002	0.002	ND
36 Touhy Avenue, North Shore Channel	0.002	0.000	0.001	0.000	0.000	0.001	0.001	0.006	0.004	0.004	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.001	0.002	0.000	0.001	0.001	0.003	0.003	0.003	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.006	0.002	0.002	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.005	0.003	0.003	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.006	0.002	0.002	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.001	0.001	0.003	0.002	0.004	0.003	0.003	ND
100 Wells Street, Chicago River	0.000	0.000	0.002	0.002	0.002	0.002	0.001	0.004	0.003	0.003	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.004	0.004	0.004	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.005	0.003	0.003	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.006	0.004	0.004	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.002	0.002	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.005	0.005	0.005	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.005	0.005	0.005	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.003	0.004	0.004	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.004	0.003	0.003	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.005	0.004	0.004	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	0.000	0.000	0.001	0.001	0.005	0.003	0.003	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.001	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.006	0.001	0.003	0.003	0.003	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.002	0.002	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.003	0.002	0.002	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.003	0.003	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.006	0.003	0.003	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.005	0.003	0.003	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.004	0.004	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.004	0.003	0.003	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.004	0.002	0.002	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.004	0.003	0.003	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.003	0.002	0.002	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.003	0.003	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.004	ND	0.002	0.002	ND
89 Walnut Lane, West Branch DuPage River	0.001	0.001	0.004	0.003	0.004	0.005	0.004	0.010	0.008	0.008	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.003	0.003	0.003	0.003	0.003	0.008	0.006	0.006	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.003	0.004	0.004	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.002	0.002	0.002	0.003	0.002	0.009	0.008	0.008	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.001	0.002	0.003	0.003	0.002	0.007	0.005	0.005	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.002	0.002	0.003	0.003	0.003	0.008	0.005	0.005	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.002	0.001	0.002	0.003	0.003	0.008	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.010	0.006	0.006	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.001	0.001	0.001	0.002	0.003	0.007	0.003	0.003	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.006	0.005	0.005	ND
12 Lake-Cook Road, Buffalo Creek	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	0.000	0.001	0.002	0.002	0.006	0.005	0.005	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.005	0.004	0.004	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.007	0.004	0.004	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.007	0.004	0.004	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.006	0.006	0.006	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.007	0.004	0.004	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.007	0.005	0.005	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.001	0.000	0.001	0.002	0.002	0.008	0.004	0.004	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-112: SOLUBLE CHROMIUM MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)											
	09	08	07	06	05	04	03	02	01	00	99	
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	0.001	0.000	0.000	0.001	0.001	0.000	0.003	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.002	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.002	ND	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.004	0.002	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.002	0.000	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.003	0.001	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.004	0.000	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.003	0.000	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.001	0.000	0.001	0.001	0.002	0.002	0.000	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.002	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.001	0.001	0.000	0.001	0.002	0.003	0.001	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.002	0.000	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.000	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.002	0.001	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.002	0.001	0.000	0.000	0.000	0.001	0.001	0.000	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.004	0.001	0.001	0.001	0.002	0.003	0.001	0.002	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.001	0.001	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.003	0.000	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	0.001	0.001	0.001	0.001	0.002	0.002	0.002	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.001	ND	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.006	0.001	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.001	0.000	0.000	0.000	0.002	0.004	0.005	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.007	0.001	ND	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.001	0.000	0.001	0.001	0.002	0.003	0.002	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.003	0.001	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.004	0.001	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.001	0.000	0.001	0.000	0.002	0.003	0.003	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.007	0.003	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.007	0.001	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.005	0.003	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.005	0.001	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.003	0.002	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.001	ND	0.002	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.001	0.001	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.002	0.002	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.004	0.001	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	ND	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.002	0.001	ND	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.003	0.002	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.001	0.004	0.002	0.004	0.001	0.005	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.000	0.001	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.001	0.000	0.001	0.002	0.000	0.001	0.001	0.002	0.000	ND	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.003	0.001	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.001	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.002	0.002	ND	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.001	0.001	0.000	0.001	0.001	0.002	0.003	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.001	0.001	0.014	0.001	0.025	0.002	0.003	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.001	0.001	0.004	0.001	0.013	0.002	0.001	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.001	0.002	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.001	0.002	0.004	0.001	0.001	0.000	0.001	ND	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.001	0.002	0.002	0.001	0.001	0.001	0.002	ND	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.003	0.002	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.001	0.001	0.000	0.001	ND	ND	ND	ND	ND	ND

ND = No Data.

**TABLE AII-113: SOLUBLE IRON MEAN HISTORY
1999 THROUGH 2009**

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
Chicago River System											
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	0.120	0.020	ND
106 Dundee Road, West Fork North Branch Chicago River	0.057	0.054	0.055	0.046	0.041	0.042	0.042	0.173	0.099	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.041	0.049	0.024	0.037	0.029	0.031	0.025	0.123	0.090	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.074	0.086	0.081	0.063	0.072	0.052	0.070	0.192	0.120	0.185	0.291
104 Glenview Road, North Branch Chicago River	0.051	0.054	0.037	0.033	0.029	0.035	0.045	0.124	0.097	ND	ND
32 Lake-Cook Road, Skokie River	0.077	0.073	0.060	0.062	0.040	0.052	0.071	0.168	0.115	0.183	0.212
105 Frontage Road, Skokie River	0.042	0.042	0.047	0.026	0.023	0.027	0.036	0.119	0.098	ND	ND
34 Dempster Street, North Branch Chicago River	0.048	0.058	0.042	0.033	0.025	0.035	0.035	0.120	0.083	0.108	0.111
96 Albany Avenue, North Branch Chicago River	0.042	0.061	0.032	0.050	0.027	0.028	0.038	0.120	0.086	0.092	ND
35 Central Street, North Shore Channel	0.048	0.015	0.015	0.024	0.022	0.040	0.021	0.076	0.042	0.072	0.074
102 Oakton Street, North Shore Channel	0.027	0.024	0.026	0.023	0.025	0.036	0.047	0.075	0.053	ND	ND
36 Touhy Avenue, North Shore Channel	0.031	0.030	0.028	0.031	0.025	0.029	0.026	0.093	0.070	0.041	0.047
101 Foster Avenue, North Shore Channel	0.032	0.032	0.035	0.029	0.030	0.033	0.037	0.107	0.076	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.047	0.042	0.034	0.032	0.035	0.041	0.038	0.104	0.084	0.055	0.068
73 Diversey Parkway, North Branch Chicago River	0.044	0.045	0.039	0.035	0.036	0.043	0.049	0.108	0.080	0.067	0.073
46 Grand Avenue, North Branch Chicago River	0.041	0.048	0.038	0.033	0.033	0.042	0.048	0.106	0.081	0.058	0.073
74 Lake Shore Drive, Chicago River	0.005	0.014	0.014	0.009	0.008	0.015	0.012	0.055	0.047	0.038	0.034
100 Wells Street, Chicago River	0.017	0.029	0.017	0.014	0.014	0.020	0.021	0.068	0.053	ND	ND
39 Madison Street, South Branch Chicago River	0.033	0.043	0.024	0.023	0.025	0.031	0.035	0.098	0.076	0.051	0.079
108 Loomis Street, South Branch Chicago River	0.031	0.045	0.024	0.021	0.033	0.032	0.027	0.096	0.079	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.043	0.056	0.025	0.019	0.019	0.034	0.028	0.105	0.112	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.039	0.043	0.024	0.021	0.023	0.034	0.030	ND	ND	0.061	0.077
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.094	0.065	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.032	0.038	0.020	0.020	0.026	0.022	0.020	0.091	0.073	0.048	0.085
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.037	0.034	0.027	0.027	0.027	0.033	0.029	0.096	0.106	0.045	0.053
42 Route 83, Chicago Sanitary & Ship Canal	0.037	0.037	0.028	0.033	0.028	0.046	0.033	0.100	0.074	0.043	0.053
48 Stephen Street, Chicago Sanitary & Ship Canal	0.043	0.038	0.030	0.033	0.025	0.041	0.031	0.103	0.078	0.056	0.060
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.058	0.062
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.044	0.035	0.028	0.031	0.025	0.033	0.030	0.100	0.079	0.048	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.000	0.006	0.004	0.004	0.005	0.006	0.044	0.032	0.038	0.028
50 Burnham Avenue, Wolf Lake	0.014	0.006	0.024	0.007	0.008	0.014	0.010	0.050	0.035	0.028	0.030
55 130th Street, Calumet River	0.014	0.007	0.016	0.008	0.007	0.004	0.011	0.054	0.044	0.041	0.037
86 Burnham Avenue, Grand Calumet River	0.107	0.101	0.128	0.034	0.070	0.057	0.052	0.220	0.142	0.248	0.198
56 Indiana Avenue, Little Calumet River	0.007	0.005	0.009	0.007	0.006	0.006	0.013	0.078	0.057	0.053	0.052
76 Halsted Street, Little Calumet River	0.030	0.034	0.030	0.032	0.038	0.038	0.037	0.107	0.082	0.068	0.065
52 Wentworth Avenue, Little Calumet River	0.069	0.067	0.072	0.061	0.082	0.084	0.054	0.155	0.120	0.255	0.232
54 Joe Orr Road, Thorn Creek	0.084	0.090	0.063	0.056	0.078	0.069	0.082	0.191	0.116	0.124	0.083
97 170th Street, Thorn Creek	0.051	0.051	0.051	0.036	0.040	0.049	0.053	0.156	0.121	ND	ND
57 Ashland Avenue, Little Calumet River	0.055	0.051	0.062	0.031	0.046	0.081	0.057	0.136	0.104	0.110	0.145
58 Ashland Avenue, Calumet-Sag Channel	0.043	0.043	0.040	0.032	0.032	0.053	0.040	0.112	0.087	0.088	0.090
59 Cicero Avenue, Calumet-Sag Channel	0.043	0.036	0.051	0.038	0.029	0.033	0.034	0.102	0.087	0.065	0.084
43 Route 83, Calumet-Sag Channel	0.039	0.029	0.073	0.020	0.017	0.020	0.025	0.099	0.087	0.069	0.081
Des Plaines River System											
90 Route 19, Poplar Creek	0.080	0.084	0.054	0.050	0.055	0.042	0.057	0.151	0.109	0.127	0.195
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.108	ND	0.185	0.249	0.217
89 Walnut Lane, West Branch DuPage River	0.051	0.065	0.061	0.050	0.054	0.054	0.069	0.119	0.096	0.088	0.066
64 Lake Street, West Branch DuPage River	0.048	0.051	0.037	0.037	0.042	0.038	0.049	0.108	0.085	0.148	0.119
79 Higgins Road, Salt Creek	0.052	0.051	0.041	0.027	0.043	0.054	0.095	0.125	0.095	0.183	0.198
80 Arlington Heights Road, Salt Creek	0.073	0.056	0.048	0.039	0.044	0.050	0.055	0.152	0.107	0.116	0.126
18 Devon Avenue, Salt Creek	0.070	0.056	0.044	0.038	0.037	0.050	0.049	0.136	0.111	0.133	0.136
24 Wolf Road, Salt Creek	0.051	0.049	0.036	0.032	0.051	0.032	0.056	0.127	0.094	0.099	0.125
109 Brookfield Avenue, Salt Creek	0.049	0.053	0.037	0.034	0.039	0.035	0.040	0.084	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.184	0.096	0.116	0.121
77 Elmhurst Road, Higgins Creek	0.063	0.070	0.059	0.048	0.052	0.060	0.086	0.123	0.098	0.147	0.259
78 Wille Road, Higgins Creek	0.051	0.051	0.044	0.045	0.046	0.051	0.044	0.134	0.108	0.057	0.048
12 Lake-Cook Road, Buffalo Creek	0.059	0.048	0.036	0.027	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.056	0.048	0.055	0.026	0.027	0.031	0.037	0.127	0.100	0.149	0.166
17 Oakton Street, Des Plaines River	0.052	0.045	0.047	0.035	0.028	0.030	0.032	0.124	0.112	0.158	0.152
19 Belmont Avenue, Des Plaines River	0.056	0.045	0.064	0.031	0.033	0.033	0.034	0.123	0.098	0.126	0.137
20 Roosevelt Road, Des Plaines River	0.052	0.042	0.052	0.027	0.035	0.032	0.040	0.127	0.096	0.167	0.126
22 Ogden Avenue, Des Plaines River	0.053	0.046	0.046	0.035	0.037	0.042	0.046	0.121	0.105	0.132	0.135
23 Willow Springs Road, Des Plaines River	0.048	0.032	0.051	0.046	0.029	0.047	0.033	0.112	0.098	0.121	0.139
29 Stephen Street, Des Plaines River	0.058	0.036	0.035	0.021	0.019	0.039	0.026	0.118	0.110	0.108	0.135
91 Material Service Road, Des Plaines River	0.043	0.035	0.032	0.023	0.020	0.040	0.032	0.120	0.094	0.093	ND
110 Springinguth Road, West Branch DuPage River	0.154	0.242	0.217	0.250	0.160	0.155	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-114: SOLUBLE LEAD MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)											
	09	08	07	06	05	04	03	02	01	00	99	
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	0.007	0.006	0.004	0.002	0.002	0.004	0.002	0.000	0.000	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.002	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.002	0.002	0.003	0.002	0.004	0.001	0.001	0.001	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.007	0.006	0.002	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.005	0.001	0.004	0.001	0.005	0.001	0.001	0.000	ND	ND	ND
105 Frontage Road, Skokie River	0.006	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.007	0.006	0.002	0.004	0.001	0.004	0.002	0.001	0.000	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.006	0.005	0.002	0.003	0.001	0.004	0.002	0.001	0.001	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.001	0.003	0.001	0.003	0.001	0.001	0.000	ND	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.005	0.001	0.003	0.001	0.003	0.001	0.001	0.001	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.007	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.006	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.002	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.006	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.001	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.007	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.006	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.003	0.001	0.003	0.001	0.003	0.001	0.001	0.002	ND	ND	ND
100 Wells Street, Chicago River	0.000	0.005	0.002	0.003	0.001	0.002	0.002	0.001	0.000	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.005	0.002	0.004	0.001	0.003	0.002	0.001	0.000	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.005	0.006	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.004	0.001	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.005	0.001	0.003	0.001	0.003	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.005	0.005	0.002	0.003	0.001	0.003	0.002	0.001	0.000	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.006	0.004	0.001	0.003	0.001	0.003	0.002	0.001	0.001	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.007	0.007	0.001	0.003	0.002	0.003	0.002	0.002	0.000	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.007	0.005	0.001	0.003	0.002	0.003	0.002	0.001	0.000	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	0.005	0.005	0.002	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.001	0.002	0.001	0.002	0.001	0.001	0.000	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.003	0.001	0.002	0.001	0.002	0.001	0.001	0.000	ND	ND	ND
55 130th Street, Calumet River	0.000	0.002	0.001	0.003	0.001	0.002	0.001	0.001	0.002	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.003	0.002	0.003	0.002	0.003	0.001	0.001	0.000	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.002	0.001	0.002	0.002	0.003	0.001	0.001	0.000	ND	ND	ND
76 Halsted Street, Little Calumet River	0.006	0.006	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.003	0.001	0.003	0.001	0.004	0.001	0.001	0.001	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.002	0.003	0.002	0.004	0.001	0.000	0.000	ND	ND	ND
97 170th Street, Thorn Creek	0.000	0.003	0.002	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.003	0.001	0.003	0.002	0.004	0.001	0.001	0.001	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.007	0.005	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.002	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.002	0.001	0.003	0.002	0.003	0.002	0.001	0.000	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.008	0.004	0.001	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.001	ND	0.000	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.007	0.003	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.009	0.003	0.002	0.004	0.001	0.003	0.002	0.001	0.000	ND	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.002	0.003	0.002	0.005	0.001	0.001	0.000	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.006	0.003	0.003	0.003	0.001	0.004	0.002	0.000	0.000	ND	ND	ND
18 Devon Avenue, Salt Creek	0.007	0.003	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND	ND	ND
24 Wolf Road, Salt Creek	0.007	0.004	0.001	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.006	0.003	0.002	0.003	0.001	0.005	0.002	0.003	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.006	0.002	0.004	0.002	0.005	0.003	0.000	0.000	ND	ND	ND
78 Wille Road, Higgins Creek	0.006	0.003	0.001	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.009	0.004	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.006	0.003	0.002	0.004	0.002	0.005	0.002	0.001	0.000	ND	ND	ND
17 Oakton Street, Des Plaines River	0.006	0.003	0.001	0.004	0.002	0.004	0.001	0.001	0.000	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.006	0.003	0.002	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.006	0.003	0.001	0.003	0.002	0.004	0.001	0.001	0.000	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.006	0.003	0.002	0.004	0.001	0.004	0.003	0.001	0.000	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.006	0.004	0.003	0.003	0.002	0.004	0.001	0.002	0.000	ND	ND	ND
29 Stephen Street, Des Plaines River	0.006	0.003	0.002	0.003	0.002	0.004	0.002	0.001	0.000	ND	ND	ND
91 Material Service Road, Des Plaines River	0.006	0.004	0.002	0.003	0.001	0.004	0.002	0.001	0.000	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.004	0.002	0.004	0.002	0.005	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-115: SOLUBLE NICKEL MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)										
	09	08	07	06	05	04	03	02	01	00	99
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	0.001	0.000	0.000	0.000	0.003	0.002	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.000	0.000	0.000	0.001	0.001	0.001	0.003	0.002	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.003	0.001	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.003	0.002	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.003	0.001	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.002	0.001	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND
102 Oakton Street, North Shore Channel	0.001	0.000	0.001	0.001	0.001	0.001	0.002	0.003	0.003	ND	ND
36 Touhy Avenue, North Shore Channel	0.001	0.000	0.001	0.001	0.001	0.002	0.003	0.003	0.004	ND	ND
101 Foster Avenue, North Shore Channel	0.001	0.000	0.001	0.001	0.002	0.002	0.003	0.004	0.005	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.000	0.001	0.001	0.002	0.002	0.003	0.004	0.004	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.001	0.000	0.001	0.001	0.002	0.002	0.003	0.004	0.004	ND	ND
46 Grand Avenue, North Branch Chicago River	0.002	0.000	0.002	0.002	0.003	0.003	0.005	0.006	0.004	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.002	0.000	0.000	0.001	0.001	0.004	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.001	0.000	0.001	0.001	0.003	0.002	0.008	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.001	0.001	0.002	0.003	0.004	0.005	0.006	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.002	0.001	0.002	0.002	0.004	0.004	0.003	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.001	0.001	0.002	0.001	0.002	0.002	0.004	0.004	0.003	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.001	0.001	0.003	0.002	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.003	0.003	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.000	0.002	0.002	0.002	0.003	0.003	0.005	0.003	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.003	0.004	0.004	0.004	0.004	0.005	0.003	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.002	0.002	0.005	0.004	0.005	0.007	0.005	0.007	0.004	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.001	0.004	0.003	0.004	0.005	0.005	0.006	0.003	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	0.002	0.004	0.004	0.004	0.004	0.005	0.005	0.003	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.002	ND	ND
86 Burnham Avenue, Grand Calumet River	0.001	0.001	0.001	0.002	0.002	0.003	0.002	0.006	0.003	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.002	0.000	0.001	0.001	0.001	0.004	0.001	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.001	0.001	0.000	0.002	0.001	0.002	0.003	0.001	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.002	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.001	ND	ND
97 170th Street, Thorn Creek	0.001	0.001	0.001	0.002	0.004	0.002	0.001	0.006	0.002	ND	ND
57 Ashland Avenue, Little Calumet River	0.001	0.001	0.001	0.002	0.002	0.001	0.002	0.004	0.001	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.001	0.001	0.000	0.002	0.001	0.001	0.003	0.001	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.001	0.001	0.001	0.003	0.002	0.002	0.003	0.002	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.001	0.002	0.001	0.002	0.002	0.002	0.004	0.001	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.003	0.001	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.001	ND	ND
89 Walnut Lane, West Branch DuPage River	0.003	0.002	0.002	0.001	0.002	0.000	0.000	0.003	0.001	ND	ND
64 Lake Street, West Branch DuPage River	0.004	0.001	0.002	0.002	0.002	0.000	0.000	0.002	0.002	ND	ND
79 Higgins Road, Salt Creek	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.003	0.002	ND	ND
80 Arlington Heights Road, Salt Creek	0.001	0.002	0.002	0.001	0.002	0.001	0.001	0.003	0.003	ND	ND
18 Devon Avenue, Salt Creek	0.001	0.002	0.002	0.001	0.002	0.002	0.000	0.003	0.002	ND	ND
24 Wolf Road, Salt Creek	0.002	0.002	0.002	0.002	0.003	0.004	0.002	0.008	0.003	ND	ND
109 Brookfield Avenue, Salt Creek	0.002	0.002	0.002	0.002	0.003	0.004	0.002	0.010	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.002	0.004	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.003	0.002	ND	ND
78 Wille Road, Higgins Creek	0.002	0.005	0.006	0.007	0.012	0.006	0.004	0.007	0.008	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.001	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.001	0.003	0.002	0.003	0.004	0.001	ND	ND
17 Oakton Street, Des Plaines River	0.002	0.000	0.001	0.000	0.002	0.001	0.002	0.003	0.002	ND	ND
19 Belmont Avenue, Des Plaines River	0.001	0.001	0.001	0.002	0.005	0.002	0.003	0.005	0.002	ND	ND
20 Roosevelt Road, Des Plaines River	0.001	0.001	0.001	0.001	0.004	0.002	0.002	0.005	0.002	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.001	0.001	0.002	0.003	0.002	0.003	0.006	0.003	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.002	0.001	0.002	0.003	0.002	0.003	0.005	0.002	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.001	0.002	0.001	0.003	0.002	0.002	0.005	0.002	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.001	0.001	0.001	0.003	0.002	0.003	0.006	0.002	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-116: SOLUBLE MANGANESE MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)											
	09	08	07	06	05	04	03	02	01	00	99	
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	0.054	0.043	0.056	0.039	0.059	0.054	0.032	0.034	0.057	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.057	0.046	0.044	0.041	0.054	0.043	0.037	0.047	0.040	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.058	0.056	0.124	0.045	0.100	0.071	0.057	0.111	0.050	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.063	0.044	0.038	0.033	0.054	0.035	0.025	0.023	0.028	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.059	0.067	0.097	0.051	0.094	0.109	0.065	0.066	0.073	ND	ND	ND
105 Frontage Road, Skokie River	0.032	0.026	0.021	0.012	0.021	0.020	0.012	0.013	0.027	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.043	0.047	0.047	0.033	0.044	0.036	0.034	0.032	0.037	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.036	0.056	0.033	0.031	0.033	0.022	0.025	0.023	0.030	ND	ND	ND
35 Central Street, North Shore Channel	0.011	0.025	0.009	0.009	0.005	0.010	0.010	0.012	0.013	ND	ND	ND
102 Oakton Street, North Shore Channel	0.014	0.016	0.013	0.016	0.011	0.018	0.019	0.013	0.022	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.010	0.017	0.013	0.009	0.013	0.013	0.010	0.017	0.023	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.019	0.015	0.015	0.011	0.013	0.016	0.012	0.015	0.010	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.018	0.019	0.019	0.013	0.018	0.017	0.015	0.018	0.019	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.025	0.021	0.024	0.018	0.019	0.020	0.021	0.019	0.029	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.027	0.038	0.039	0.022	0.025	0.028	0.024	0.023	0.026	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.011	0.012	0.010	0.004	0.011	0.007	0.007	0.009	0.010	ND	ND	ND
100 Wells Street, Chicago River	0.013	0.029	0.019	0.010	0.015	0.014	0.016	0.012	0.015	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.021	0.028	0.024	0.014	0.040	0.020	0.022	0.023	0.019	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.024	0.040	0.032	0.019	0.028	0.021	0.020	0.023	0.022	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.037	0.043	0.025	0.019	0.028	0.026	0.024	0.033	0.042	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.023	0.034	0.024	0.021	0.022	0.021	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.025	0.031	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.025	0.032	0.020	0.019	0.018	0.018	0.020	0.022	0.018	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.022	0.018	0.018	0.014	0.013	0.013	0.013	0.013	0.015	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.017	0.020	0.016	0.015	0.017	0.018	0.020	0.016	0.022	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.022	0.025	0.021	0.023	0.028	0.027	0.026	0.024	0.028	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	0.028	0.057	0.030	0.026	0.025	0.029	0.026	0.030	0.027	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.021	0.009	0.010	0.007	0.008	0.008	0.006	0.006	0.007	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.010	0.013	0.008	0.005	0.008	0.014	0.004	0.006	0.004	ND	ND	ND
55 130th Street, Calumet River	0.014	0.036	0.013	0.011	0.012	0.014	0.005	0.004	0.007	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.081	0.157	0.131	0.132	0.067	0.083	0.108	0.078	0.057	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.019	0.021	0.019	0.009	0.012	0.009	0.008	0.011	0.009	ND	ND	ND
76 Halsted Street, Little Calumet River	0.025	0.033	0.035	0.025	0.029	0.027	0.026	0.031	0.040	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.084	0.105	0.096	0.084	0.089	0.114	0.090	0.094	0.089	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.047	0.058	0.057	0.042	0.060	0.059	0.026	0.054	0.038	ND	ND	ND
97 170th Street, Thorn Creek	0.060	0.061	0.058	0.051	0.061	0.064	0.046	0.046	0.043	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.065	0.065	0.081	0.065	0.081	0.083	0.083	0.063	0.058	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.035	0.042	0.038	0.037	0.039	0.036	0.033	0.043	0.039	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.035	0.056	0.041	0.040	0.036	0.046	0.033	0.044	0.044	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.034	0.048	0.042	0.038	0.039	0.057	0.024	0.034	0.043	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.054	0.090	0.050	0.047	0.077	0.048	0.040	0.057	0.063	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.029	ND	0.093	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.023	0.039	0.026	0.024	0.034	0.031	0.029	0.048	0.046	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.044	0.049	0.035	0.037	0.053	0.042	0.037	0.036	0.040	ND	ND	ND
79 Higgins Road, Salt Creek	0.022	0.035	0.033	0.021	0.036	0.044	0.023	0.034	0.041	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.023	0.039	0.031	0.014	0.024	0.030	0.020	0.018	0.021	ND	ND	ND
18 Devon Avenue, Salt Creek	0.030	0.051	0.030	0.017	0.026	0.031	0.021	0.020	0.027	ND	ND	ND
24 Wolf Road, Salt Creek	0.034	0.040	0.032	0.027	0.031	0.035	0.029	0.035	0.034	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.038	0.040	0.036	0.031	0.035	0.034	0.026	0.023	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.037	0.035	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.069	0.077	0.067	0.057	0.072	0.091	0.074	0.073	0.099	ND	ND	ND
78 Wille Road, Higgins Creek	0.026	0.051	0.028	0.023	0.016	0.018	0.019	0.022	0.018	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.056	0.066	0.047	0.043	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.032	0.035	0.030	0.025	0.036	0.033	0.030	0.029	0.024	ND	ND	ND
17 Oakton Street, Des Plaines River	0.026	0.030	0.030	0.032	0.039	0.028	0.025	0.034	0.021	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.029	0.034	0.032	0.032	0.045	0.035	0.029	0.052	0.032	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.025	0.034	0.028	0.034	0.039	0.034	0.021	0.050	0.025	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.020	0.033	0.028	0.026	0.029	0.028	0.033	0.027	0.021	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.018	0.039	0.028	0.030	0.033	0.052	0.019	0.028	0.021	ND	ND	ND
29 Stephen Street, Des Plaines River	0.016	0.032	0.027	0.024	0.022	0.027	0.018	0.021	0.018	ND	ND	ND
91 Material Service Road, Des Plaines River	0.014	0.030	0.019	0.020	0.021	0.027	0.019	0.016	0.015	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.109	0.182	0.093	0.116	0.186	0.092	ND	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-117: SOLUBLE MERCURY MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means ($\mu\text{g/L}$)										
	09	08	07	06	05	04	03	02	01	00	99
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	ND	ND	ND	ND	0.093	ND	0.000	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	0.000	0.080	0.020	0.008	0.000	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	0.030	0.075	0.010	0.000	ND	ND
104 Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	0.000	ND	0.000	0.000	ND	ND
32 Lake-Cook Road, Skokie River	ND	ND	ND	ND	0.025	0.000	0.065	0.013	0.000	ND	ND
105 Frontage Road, Skokie River	ND	ND	ND	ND	0.045	0.014	0.000	0.032	0.000	ND	ND
34 Dempster Street, North Branch Chicago River	ND	ND	ND	ND	0.000	0.018	0.075	0.012	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	0.000	0.000	0.075	0.058	0.000	ND	ND
35 Central Street, North Shore Channel	ND	ND	ND	ND	0.000	ND	0.000	0.008	0.000	ND	ND
102 Oakton Street, North Shore Channel	ND	ND	ND	ND	0.000	0.012	ND	0.038	0.000	ND	ND
36 Touhy Avenue, North Shore Channel	ND	ND	ND	ND	0.000	0.015	0.000	0.030	0.000	ND	ND
101 Foster Avenue, North Shore Channel	ND	ND	ND	ND	0.000	0.023	0.000	0.008	0.000	ND	ND
37 Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	0.080	0.015	0.000	0.000	0.000	ND	ND
73 Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	0.000	0.000	0.027	0.000	ND	ND
46 Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	0.000	0.103	0.000	0.025	ND	ND	ND
74 Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	0.167	0.015	0.090	ND	ND	ND
100 Wells Street, Chicago River	ND	ND	ND	ND	0.000	0.083	0.000	0.030	0.000	ND	ND
39 Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	0.050	0.075	0.030	ND	ND	ND
108 Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	0.000	0.000	0.020	0.060	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	0.000	0.000	0.023	0.000	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.010	0.000	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.000	0.000	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.000	0.007	0.033	0.017	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	0.000	0.030	0.000	0.000	0.000	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	0.016	0.087	0.000	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	ND	ND	ND	ND	0.000	0.025	0.002	0.013	0.016	ND	ND
Calumet River System											
49 Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	0.090	0.000	0.028	0.000	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	0.000	0.000	0.000	0.000	ND	ND
55 130th Street, Calumet River	ND	ND	ND	0.000	ND	0.000	ND	0.020	0.000	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	ND	0.040	0.085	0.020	0.022	0.026	0.000	ND	ND
56 Indiana Avenue, Little Calumet River	ND	ND	ND	0.000	ND	ND	0.000	0.020	0.000	ND	ND
76 Halsted Street, Little Calumet River	ND	ND	ND	0.000	ND	0.000	0.000	0.019	0.000	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	ND	0.000	0.000	ND	0.000	0.020	0.000	ND	ND
54 Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	0.070	0.020	0.000	ND	ND
97 170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000	ND	ND
57 Ashland Avenue, Little Calumet River	ND	ND	ND	0.000	0.000	0.000	0.000	0.018	0.000	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	ND	ND	ND	0.050	ND	0.000	0.070	0.023	0.000	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	ND	ND	ND	0.000	ND	0.043	0.000	0.022	0.000	ND	ND
43 Route 83, Calumet-Sag Channel	ND	ND	ND	0.000	0.000	ND	0.000	0.028	0.000	ND	ND
Des Plaines River System											
90 Route 19, Poplar Creek	ND	ND	0.000	ND	0.060	0.055	0.000	0.013	0.080	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	ND	ND	ND	ND	0.000	0.000	0.007	0.025	ND	ND
64 Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	0.043	0.000	0.003	0.020	ND	ND
79 Higgins Road, Salt Creek	ND	ND	ND	ND	ND	0.080	0.000	0.000	0.000	ND	ND
80 Arlington Heights Road, Salt Creek	ND	ND	ND	ND	0.000	0.000	0.000	0.020	ND	ND	ND
18 Devon Avenue, Salt Creek	ND	ND	ND	ND	0.000	0.027	0.070	0.000	0.020	ND	ND
24 Wolf Road, Salt Creek	ND	ND	ND	ND	ND	0.030	0.020	0.004	0.000	ND	ND
109 Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	0.050	0.000	0.005	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.020	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	0.000	0.000	0.033	0.040	ND	ND
78 Wille Road, Higgins Creek	ND	ND	ND	0.000	0.000	0.050	0.000	0.005	0.033	ND	ND
12 Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	0.000	0.063	0.045	0.048	0.030	ND	ND
17 Oakton Street, Des Plaines River	ND	ND	ND	0.080	0.080	0.070	0.033	0.020	0.017	ND	ND
19 Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	0.030	0.000	0.003	ND	ND	ND
20 Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	0.000	0.000	0.015	0.000	ND	ND
22 Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	0.025	0.090	0.004	0.025	ND	ND
23 Willow Springs Road, Des Plaines River	ND	ND	ND	ND	0.000	0.000	0.000	0.018	0.015	ND	ND
29 Stephen Street, Des Plaines River	ND	ND	ND	0.000	ND	0.000	0.005	0.003	0.010	ND	ND
91 Material Service Road, Des Plaines River	ND	ND	ND	ND	0.000	0.100	0.000	0.018	0.010	ND	ND
110 Springinguth Road, West Branch DuPage River	ND	ND	ND	ND	0.000	0.080	ND	ND	ND	ND	ND

ND = No Data.

TABLE AII-118: SOLUBLE ZINC MEAN HISTORY
1999 THROUGH 2009

Sampling Station (No. Name)	Annual Means (mg/L)											
	09	08	07	06	05	04	03	02	01	00	99	
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	0.014	0.015	0.028	0.020	0.019	0.029	0.012	0.010	0.035	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.004	0.003	0.016	0.014	0.011	0.012	0.008	0.012	0.011	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.003	0.000	0.011	0.012	0.005	0.007	0.004	0.007	0.005	ND	ND	ND
104 Glenview Road, North Branch Chicago River	0.011	0.010	0.017	0.019	0.018	0.019	0.013	0.017	0.014	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.004	0.001	0.011	0.015	0.011	0.010	0.006	0.009	0.007	ND	ND	ND
105 Frontage Road, Skokie River	0.014	0.010	0.019	0.022	0.023	0.019	0.022	0.021	0.012	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.003	0.004	0.017	0.016	0.014	0.017	0.014	0.017	0.011	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	0.006	0.007	0.016	0.021	0.015	0.012	0.012	0.017	0.012	ND	ND	ND
35 Central Street, North Shore Channel	0.002	0.003	0.010	0.010	0.004	0.006	0.006	0.007	0.004	ND	ND	ND
102 Oakton Street, North Shore Channel	0.010	0.009	0.022	0.025	0.018	0.015	0.015	0.020	0.009	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.023	0.026	0.037	0.034	0.029	0.029	0.029	0.032	0.029	ND	ND	ND
101 Foster Avenue, North Shore Channel	0.022	0.026	0.037	0.034	0.028	0.032	0.027	0.027	0.027	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.017	0.020	0.032	0.028	0.031	0.025	0.024	0.025	0.024	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.017	0.019	0.031	0.027	0.024	0.025	0.024	0.025	0.024	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.018	0.019	0.029	0.029	0.028	0.023	0.026	0.028	0.021	ND	ND	ND
74 Lake Shore Drive, Chicago River	0.002	0.003	0.016	0.013	0.012	0.013	0.009	0.013	0.015	ND	ND	ND
100 Wells Street, Chicago River	0.006	0.011	0.018	0.017	0.014	0.014	0.018	0.014	0.016	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.015	0.016	0.021	0.021	0.023	0.027	0.023	0.023	0.018	ND	ND	ND
108 Loomis Street, South Branch Chicago River	0.016	0.017	0.025	0.023	0.022	0.022	0.023	0.023	0.017	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.013	0.017	0.021	0.020	0.017	0.020	0.020	0.019	0.013	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.015	0.016	0.026	0.024	0.023	0.022	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.023	0.025	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.011	0.020	0.029	0.022	0.021	0.020	0.019	0.021	0.018	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.017	0.022	0.030	0.024	0.023	0.022	0.023	0.022	0.022	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.018	0.019	0.029	0.026	0.024	0.028	0.026	0.028	0.022	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.016	0.019	0.027	0.024	0.022	0.025	0.024	0.025	0.020	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	0.017	0.021	0.026	0.027	0.024	0.025	0.024	0.025	0.018	ND	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.002	0.001	0.009	0.008	0.005	0.011	0.005	0.004	0.004	ND	ND	ND
50 Burnham Avenue, Wolf Lake	0.001	0.001	0.010	0.007	0.004	0.004	0.001	0.004	0.003	ND	ND	ND
55 130th Street, Calumet River	0.000	0.002	0.012	0.017	0.008	0.008	0.003	0.007	0.005	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.026	0.008	0.019	0.031	0.020	0.021	0.021	0.031	0.024	ND	ND	ND
56 Indiana Avenue, Little Calumet River	0.001	0.003	0.017	0.013	0.009	0.010	0.009	0.015	0.008	ND	ND	ND
76 Halsted Street, Little Calumet River	0.016	0.022	0.029	0.026	0.026	0.024	0.031	0.032	0.023	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	0.007	0.010	0.013	0.014	0.013	0.014	0.012	0.018	0.010	ND	ND	ND
54 Joe Orr Road, Thorn Creek	0.034	0.041	0.041	0.044	0.032	0.039	0.021	0.036	0.028	ND	ND	ND
97 170th Street, Thorn Creek	0.013	0.019	0.019	0.021	0.020	0.024	0.023	0.030	0.013	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.011	0.014	0.016	0.016	0.019	0.016	0.024	0.014	0.010	ND	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.016	0.028	0.028	0.030	0.036	0.029	0.031	0.024	0.024	ND	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.011	0.020	0.021	0.025	0.023	0.021	0.019	0.025	0.020	ND	ND	ND
43 Route 83, Calumet-Sag Channel	0.012	0.015	0.024	0.024	0.026	0.022	0.019	0.023	0.017	ND	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.001	0.005	0.010	0.007	0.005	0.004	0.010	0.007	0.005	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.009	ND	0.014	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	0.032	0.034	0.040	0.034	0.036	0.043	0.032	0.036	0.032	ND	ND	ND
64 Lake Street, West Branch DuPage River	0.022	0.025	0.030	0.029	0.027	0.032	0.027	0.026	0.027	ND	ND	ND
79 Higgins Road, Salt Creek	0.005	0.002	0.009	0.007	0.004	0.007	0.003	0.003	0.002	ND	ND	ND
80 Arlington Heights Road, Salt Creek	0.018	0.015	0.023	0.022	0.021	0.035	0.018	0.019	0.020	ND	ND	ND
18 Devon Avenue, Salt Creek	0.017	0.014	0.020	0.018	0.028	0.024	0.018	0.019	0.016	ND	ND	ND
24 Wolf Road, Salt Creek	0.016	0.019	0.021	0.024	0.029	0.025	0.025	0.029	0.019	ND	ND	ND
109 Brookfield Avenue, Salt Creek	0.013	0.017	0.022	0.023	0.026	0.027	0.017	0.025	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.028	0.020	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.007	0.017	0.011	0.020	0.017	0.021	0.016	0.013	0.012	ND	ND	ND
78 Wille Road, Higgins Creek	0.032	0.041	0.040	0.047	0.062	0.057	0.049	0.048	0.043	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.001	0.002	0.008	0.008	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.007	0.011	0.015	0.016	0.021	0.019	0.018	0.017	0.013	ND	ND	ND
17 Oakton Street, Des Plaines River	0.007	0.009	0.013	0.017	0.019	0.018	0.014	0.016	0.009	ND	ND	ND
19 Belmont Avenue, Des Plaines River	0.011	0.014	0.018	0.022	0.027	0.022	0.025	0.024	0.014	ND	ND	ND
20 Roosevelt Road, Des Plaines River	0.008	0.015	0.017	0.022	0.026	0.021	0.020	0.023	0.011	ND	ND	ND
22 Ogden Avenue, Des Plaines River	0.008	0.016	0.021	0.023	0.024	0.021	0.028	0.022	0.015	ND	ND	ND
23 Willow Springs Road, Des Plaines River	0.006	0.014	0.019	0.021	0.022	0.021	0.017	0.019	0.012	ND	ND	ND
29 Stephen Street, Des Plaines River	0.007	0.013	0.021	0.022	0.021	0.022	0.019	0.020	0.012	ND	ND	ND
91 Material Service Road, Des Plaines River	0.007	0.012	0.018	0.020	0.018	0.020	0.021	0.018	0.010	ND	ND	ND
110 Springinguth Road, West Branch DuPage River	0.008	0.015	0.019	0.015	0.011	0.011	ND	ND	ND	ND	ND	ND

ND = No Data.

**TABLE AII-119: SOLUBLE SELENIUM MEAN HISTORY
1999 THROUGH 2009**

Sampling Station (No. Name)	Annual Means (mg/L)											
	09	08	07	06	05	04	03	02	01	00	99	
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	0.002	0.011	0.006	0.000	0.007	0.000	0.000	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.000	0.002	0.007	0.008	0.005	0.006	0.002	0.000	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.002	0.005	0.005	0.002	0.006	0.002	0.000	ND	ND
104 Glenview Road, North Branch Chicago River	0.000	0.000	0.000	0.004	0.006	0.006	0.002	0.004	0.002	0.000	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.000	0.000	0.003	0.006	0.007	0.004	0.005	0.000	0.000	ND	ND
105 Frontage Road, Skokie River	0.000	0.000	0.000	0.001	0.005	0.005	0.006	0.001	0.000	0.000	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.001	0.008	0.006	0.005	0.005	0.000	0.000	ND	ND
96 Albany Avenue, North Branch Chicago River	0.000	0.000	0.002	0.002	0.007	0.007	0.003	0.006	0.000	0.000	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.000	0.001	0.007	0.005	0.003	0.005	0.000	0.000	ND	ND
102 Oakton Street, North Shore Channel	0.000	0.000	0.002	0.001	0.005	0.005	0.001	0.003	0.000	0.000	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.000	0.002	0.002	0.006	0.005	0.006	0.005	0.000	0.000	ND	ND
101 Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.001	0.007	0.007	0.004	0.004	0.000	0.000	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.000	0.002	0.002	0.008	0.006	0.004	0.006	0.002	0.000	ND	ND
73 Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.002	0.006	0.005	0.005	0.004	0.000	0.000	ND	ND
46 Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	0.001	0.007	0.006	0.005	0.007	0.000	0.000	ND	ND
74 Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.001	0.005	0.005	0.003	0.001	0.000	0.000	ND	ND
100 Wells Street, Chicago River	0.000	0.000	0.000	0.002	0.003	0.007	0.004	0.002	0.000	0.000	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.000	0.000	0.001	0.006	0.007	0.002	0.002	0.000	0.000	ND	ND
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.000	0.000	0.007	0.009	0.005	0.002	0.000	0.000	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	0.000	0.005	0.007	0.004	0.002	0.000	0.000	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.006	0.005	ND	ND	ND	ND	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	0.004	0.000	0.000	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.006	0.005	0.004	0.004	0.000	0.000	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.006	0.009	0.003	0.001	0.000	0.000	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.000	0.005	0.006	0.002	0.001	0.002	0.000	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.001	0.005	0.006	0.004	0.002	0.005	0.000	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	0.002	0.005	0.006	0.004	0.005	0.001	0.000	ND	ND
Calumet River System												
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.003	0.005	0.007	0.004	0.002	0.002	0.000	ND	ND
50 Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.004	0.004	0.005	0.003	0.002	0.000	0.000	ND	ND
55 130th Street, Calumet River	0.000	0.000	0.000	0.003	0.002	0.004	0.003	0.002	0.000	0.000	ND	ND
86 Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.002	0.006	0.008	0.002	0.005	0.002	0.000	ND	ND
56 Indiana Avenue, Little Calumet River	0.000	0.000	0.000	0.002	0.003	0.004	0.003	0.005	0.000	0.000	ND	ND
76 Halsted Street, Little Calumet River	0.000	0.000	0.000	0.003	0.004	0.005	0.005	0.003	0.000	0.000	ND	ND
52 Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.002	0.004	0.008	0.003	0.003	0.005	0.000	ND	ND
54 Joe Orr Road, Thorn Creek	0.000	0.000	0.000	0.003	0.005	0.005	0.008	0.000	0.005	0.000	ND	ND
97 170th Street, Thorn Creek	0.000	0.000	0.000	0.002	0.004	0.005	0.004	0.006	0.004	0.000	ND	ND
57 Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.003	0.004	0.005	0.003	0.005	0.002	0.000	ND	ND
58 Ashland Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.002	0.005	0.005	0.005	0.001	0.000	0.000	ND	ND
59 Cicero Avenue, Calumet-Sag Channel	0.000	0.000	0.000	0.003	0.004	0.007	0.004	0.005	0.004	0.000	ND	ND
43 Route 83, Calumet-Sag Channel	0.000	0.000	0.000	0.003	0.004	0.005	0.004	0.005	0.002	0.000	ND	ND
Des Plaines River System												
90 Route 19, Poplar Creek	0.000	0.000	0.000	0.000	0.005	0.008	0.003	0.006	0.004	0.000	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	0.000	ND	0.000	0.000	ND	ND
89 Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.000	0.005	0.005	0.004	0.003	0.002	0.000	ND	ND
64 Lake Street, West Branch DuPage River	0.000	0.000	0.002	0.000	0.007	0.004	0.005	0.005	0.000	0.000	ND	ND
79 Higgins Road, Salt Creek	0.000	0.000	0.000	0.001	0.005	0.007	0.001	0.006	0.000	0.000	ND	ND
80 Arlington Heights Road, Salt Creek	0.000	0.000	0.000	0.001	0.007	0.005	0.002	0.004	0.000	0.000	ND	ND
18 Devon Avenue, Salt Creek	0.000	0.000	0.000	0.001	0.008	0.005	0.003	0.002	0.000	0.000	ND	ND
24 Wolf Road, Salt Creek	0.000	0.000	0.000	0.001	0.006	0.006	0.003	0.008	0.000	0.000	ND	ND
109 Brookfield Avenue, Salt Creek	0.000	0.000	0.000	0.000	0.005	0.006	0.003	0.011	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0.005	0.002	0.000	ND	ND
77 Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.000	0.009	0.006	0.003	0.002	0.002	0.000	ND	ND
78 Wille Road, Higgins Creek	0.000	0.000	0.000	0.000	0.006	0.006	0.004	0.006	0.000	0.000	ND	ND
12 Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	0.000	0.000	0.000	0.000	0.006	0.005	0.005	0.010	0.002	0.000	ND	ND
17 Oakton Street, Des Plaines River	0.000	0.000	0.002	0.000	0.005	0.008	0.003	0.006	0.004	0.000	ND	ND
19 Belmont Avenue, Des Plaines River	0.000	0.000	0.000	0.001	0.006	0.006	0.004	0.005	0.000	0.000	ND	ND
20 Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.005	0.006	0.003	0.006	0.000	0.000	ND	ND
22 Ogden Avenue, Des Plaines River	0.000	0.000	0.002	0.001	0.008	0.007	0.005	0.010	0.002	0.000	ND	ND
23 Willow Springs Road, Des Plaines River	0.000	0.000	0.000	0.001	0.006	0.005	0.003	0.005	0.000	0.000	ND	ND
29 Stephen Street, Des Plaines River	0.000	0.000	0.000	0.001	0.006	0.006	0.002	0.006	0.000	0.000	ND	ND
91 Material Service Road, Des Plaines River	0.000	0.000	0.000	0.000	0.006	0.006	0.003	0.003	0.001	0.000	ND	ND
110 Springinguth Road, West Branch DuPage River	0.000	0.000	0.000	0.001	0.008	0.005	ND	ND	ND	0.000	ND	ND

ND = No Data.

APPENDIX AIII

STATISTICAL ANALYSIS OF UPSTREAM AND DOWNSTREAM LOCATIONS, SAMPLE
MEANS, AND APPLICABLE SIGNIFICANCE PROBABILITY TESTS

TABLE AIII-1: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
DO (mg/L)	0.687	0.997	0.002	...	0.517	...
Temp (°C)	0.999	0.990	0.197	0.712	...	...
pH	0.908	0.978	0.029	...	0.034	...
Alk (mg/L)	0.393	0.982	0.216	0.001	...	...
Cl (mg/L)	0.463	0.888	0.003	...	0.006	...
Turb (NTU)	0.457	0.986	0.002	...	0.329	...
TKN (mg/L)	0.784	0.595	0.402	0.009	...	...
NH ₄ -N (mg/L)	0.184	0.646	0.220	0.231	...	...
NH ₃ -N (mg/L)	0.303	0.476	0.069	0.211	...	...
ORG-N (mg/L)	0.502	0.824	0.397	0.001	...	...
NO ₂ + NO ₃ (mg/L)	0.197	1.000	0.000	0.000	...	...
TS (mg/L)	0.561	0.972	0.012	...	0.009	...
TSS (mg/L)	0.683	0.979	0.027	...	0.532	...
VSS (mg/L)	0.835	1.000	0.491	0.317	...	...
TDS (mg/L)	0.642	0.925	0.012	...	0.005	...
Phenol (μ g/L)	-	-	-	-	-	-
TNP (μ g/L)	-	-	-	-	-	-
SO ₄ (mg/L)	0.553	1.000	0.485	0.001	...	...
FOG (mg/L)	-	-	-	-	-	-
TP (mg/L)	0.223	0.999	0.002	0.000	...	...
CN (mg/L)	-	0.048	-	-	-	-
WAD-CN (mg/L)	-	-	-	-	-	-
F (mg/L)	0.097	0.965	0.016	0.000	...	...
TOC (mg/L)	0.496	0.998	0.093	0.016	...	...
FC (cfu/100mL)	0.435	0.218	0.002	...	0.001	...
EColi (cfu/100mL)	1.000	1.000	0.070	0.021	...	...
Ca (mg/L)	0.595	0.978	0.017	0.000	...	...
Mg (mg/L)	0.595	0.919	0.081	0.000	...	...

TABLE AIII-1 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Hard (mg/L)	0.475	0.961	0.033	0.000	...	...
G. Alpha (pCi/L)	0.930	1.000	0.057	0.005	...	...
G. Beta (pCi/L)	1.000	0.998	0.001	...	0.015	...
Chlrphl (μ g/L)	0.087	0.429	0.000	...	0.358	...
Bnzn (μ g/L)	-	-	-	-	-	-
Ebnzn (μ g/L)	-	-	-	-	-	-
Toln (μ g/L)	-	-	-	-	-	-
Xyln (μ g/L)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	-	-
Ba (mg/L)	0.999	0.943	0.007	...	0.013	...
B (mg/L)	0.090	0.982	0.018	0.000	...	...
Cd (mg/L)	-	-	-	-	-	-
Cu (mg/L)	-	-	-	-	-	-
Cr (mg/L)	0.042	0.022	0.238	...	...	0.939
Cr ⁺⁶ (μ g/L)	-	-	-	-	-	-
Fe (mg/L)	0.781	0.492	0.001	...	0.299	...
Pb (mg/L)	0.144	0.381	0.139	0.379	...	...
Ni (mg/L)	-	-	-	-	-	-
Mn (mg/L)	0.946	0.971	0.028	...	0.569	...
Hg (μ g/L)	-	-	-	-	-	-
Hg- (ng/L)	1.000	-	-	-	-	-
Zn (mg/L)	0.115	0.998	0.091	0.031	...	...
Se (mg/L)	0.042	-	-	-	-	-
Sol. Ca (mg/L)	0.153	0.958	0.020	0.000	...	...
Sol. Mg (mg/L)	0.273	0.995	0.136	0.000	...	...
Sol. Ag (mg/L)	-	-	-	-	-	-
Sol. As (mg/L)	-	-	-	-	-	-

TABLE AIII-1 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE NORTH SIDE WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol. Ba (mg/L)	1.000	0.964	0.005	...	0.012	...
Sol. B (mg/L)	0.820	0.944	0.000	0.000	...	...
Sol. Cd (mg/L)	-	-	-	-	-	-
Sol. Cu (mg/L)	-	0.022	-	-	-	-
Sol. Cr (mg/L)	-	-	-	-	-	-
Sol. Fe (mg/L)	0.252	0.835	0.000	...	0.674	...
Sol. Pb (mg/L)	-	0.022	-	-	-	-
Sol. Ni (mg/L)	-	0.022	-	-	-	-
Sol. Mn (mg/L)	0.395	0.275	0.141	0.772	...	...
Sol. Zn (mg/L)	0.042	0.876	0.165	0.000	...	...
Sol. Se (mg/L)	-	-	-	-	-	-

¹Significance probabilities ≤ 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 is done since standard deviation is either 0 or does not exist.

...=Not appropriate test.

TABLE AIII-2: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE STICKNEY WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
DO (mg/L)	0.965	0.770	0.181	0.744	...	...
Temp (°C)	1.000	1.000	0.462	0.733	...	...
pH	0.350	0.999	0.012	...	0.450	...
Alk (mg/L)	0.888	0.861	0.399	0.920	...	...
Cl (mg/L)	0.911	0.959	0.478	0.467	...	...
Turb (NTU)	0.986	0.994	0.130	0.000	...	...
TKN (mg/L)	0.997	0.356	0.005	...	0.232	...
NH ₄ -N (mg/L)	0.987	0.537	0.000	...	0.462	...
NH ₃ -N (mg/L)	0.986	0.225	0.000	...	0.360	...
ORG-N (mg/L)	1.000	1.000	0.357	0.112	...	...
NO ₂ + NO ₃ (mg/L)	0.848	0.988	0.245	0.000	...	...
TS (mg/L)	0.824	0.814	0.455	0.340	...	...
TSS (mg/L)	0.996	0.723	0.279	0.000	...	...
VSS (mg/L)	0.887	0.317	0.056	0.387	...	...
TDS (mg/L)	0.840	0.843	0.463	0.299	...	...
Phenol (µg/L)	-	-	-	-	-	-
TNP (µg/L)	-	-	-	-	-	-
SO ₄ (mg/L)	0.998	0.854	0.480	0.001	...	...
FOG (mg/L)	-	-	-	-	-	-
TP (mg/L)	1.000	1.000	0.088	0.264	...	...
CN (mg/L)	0.006	0.013	0.230	...	...	0.615
WAD-CN (mg/L)	-	-	-	-	-	-
F (mg/L)	0.905	1.000	0.497	0.001	...	...
TOC (mg/L)	0.926	0.969	0.059	0.001	...	...
FC (cfu/100mL)	0.984	0.914	0.134	0.000	...	...
EColi (cfu/100mL)	1.000	1.000	0.320	0.047	...	...
Ca (mg/L)	0.938	0.996	0.450	0.362	...	...
Mg (mg/L)	0.865	0.998	0.363	0.467	...	...

TABLE AIII-2 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE STICKNEY WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Hard (mg/L)	0.895	0.996	0.415	0.400	...	...
G. Alpha (pCi/L)	0.116	1.000	0.000	...	0.333	...
G. Beta (pCi/L)	0.841	0.811	0.123	0.149	...	...
Chlrphl (μ g/L)	0.586	0.856	0.486	0.134	...	...
Bnzn (μ g/L)	-	-	-	-	-	-
Ebnzn (μ g/L)	-	-	-	-	-	-
Toln (μ g/L)	-	-	-	-	-	-
Xyln (μ g/L)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	-	-
Ba (mg/L)	1.000	0.997	0.497	0.027	...	...
B (mg/L)	0.984	0.996	0.333	0.001	...	...
Cd (mg/L)	-	-	-	-	-	-
Cu (mg/L)	-	-	-	-	-	-
Cr (mg/L)	0.898	0.692	0.156	0.438	...	...
Cr ⁺⁶ (μ g/L)	-	-	-	-	-	-
Fe (mg/L)	0.778	0.438	0.337	0.019	...	...
Pb (mg/L)	0.157	0.053	0.423	0.948	...	...
Ni (mg/L)	-	-	-	-	-	-
Mn (mg/L)	1.000	0.993	0.039	...	0.395	...
Hg (μ g/L)	-	-	-	-	-	-
Hg- (ng/L)	-	-	-	-	-	-
Zn (mg/L)	0.973	0.521	0.203	0.471	...	...
Se (mg/L)	-	-	-	-	-	-
Sol. Ca (mg/L)	0.877	0.994	0.322	0.282	...	...
Sol. Mg (mg/L)	0.909	0.992	0.228	0.343	...	...
Sol. Ag (mg/L)	-	-	-	-	-	-
Sol. As (mg/L)	-	-	-	-	-	-

TABLE AIII-2 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE STICKNEY WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol. Ba (mg/L)	0.873	0.964	0.463	0.393	...	...
Sol. B (mg/L)	0.957	0.991	0.498	0.000	...	...
Sol. Cd (mg/L)	-	-	-	-	-	-
Sol. Cu (mg/L)	-	-	-	-	-	-
Sol. Cr (mg/L)	0.006	-	-	-	-	-
Sol. Fe (mg/L)	0.977	0.823	0.003	...	0.439	...
Sol. Pb (mg/L)	0.006	0.012	0.347	...	...	0.950
Sol. Ni (mg/L)	0.035	0.135	0.352	...	...	0.763
Sol. Mn (mg/L)	0.725	0.970	0.120	0.659	...	...
Sol. Zn (mg/L)	0.914	1.000	0.063	0.027	...	...
Sol. Se (mg/L)	-	-	-	-	-	-

¹Significance probabilities ≤ 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 is done since standard deviation is either 0 or does not exist.

... = Not appropriate test.

TABLE AIII-3: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE CALUMET WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
DO (mg/L)	0.737	1.000	0.049	...	0.096	...
Temp (°C)	0.979	1.000	0.495	0.345	...	...
pH	0.767	0.954	0.001	...	0.391	...
Alk (mg/L)	0.987	1.000	0.344	0.037	...	...
Cl (mg/L)	0.999	1.000	0.402	0.158	...	...
Turb (NTU)	0.925	0.981	0.005	...	0.035	...
TKN (mg/L)	0.996	0.998	0.006	...	0.369	...
NH ₄ -N (mg/L)	0.999	0.758	0.011	...	0.991	...
NH ₃ -N (mg/L)	0.996	0.720	0.023	...	0.060	...
ORG-N (mg/L)	1.000	0.990	0.003	...	0.264	...
NO ₂ + NO ₃ (mg/L)	1.000	1.000	0.004	0.000	...	...
TS (mg/L)	1.000	0.997	0.323	0.138	...	...
TSS (mg/L)	0.984	1.000	0.000	...	0.163	...
VSS (mg/L)	0.986	0.991	0.194	0.576	...	...
TDS (mg/L)	1.000	0.998	0.364	0.116	...	...
Phenol (µg/L)	-	-	-	-	-	-
TNP (µg/L)	-	-	-	-	-	-
SO ₄ (mg/L)	1.000	1.000	0.172	0.394	...	...
FOG (mg/L)	-	-	-	-	-	-
TP (mg/L)	0.078	0.351	0.000	0.002	...	...
CN (mg/L)	-	-	-	-	-	-
WAD-CN (mg/L)	-	-	-	-	-	-
F (mg/L)	0.969	0.997	0.076	0.002	...	...
TOC (mg/L)	0.999	0.916	0.057	0.177	...	...
FC (cfu/100mL)	0.906	0.995	0.003	...	0.001	...
EColi (cfu/100mL)	1.000	1.000	0.021	...	0.535	...
Ca (mg/L)	0.990	0.923	0.505	0.057	...	...
Mg (mg/L)	1.000	1.000	0.439	0.060	...	...

TABLE AIII-3 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE CALUMET WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Hard (mg/L)	1.000	0.995	0.479	0.057	...	...
G. Alpha (pCi/L)	1.000	0.999	0.326	0.905	...	...
G. Beta (pCi/L)	1.000	0.387	0.007	...	0.222	...
Chlrphl (μ g/L)	0.520	0.738	0.014	...	0.317	...
Bzn (μ g/L)	-	-	-	-	-	-
Ebnzn (μ g/L)	-	-	-	-	-	-
Toln (μ g/L)	-	-	-	-	-	-
Xyln (μ g/L)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	-	-
Ba (mg/L)	1.000	0.865	0.029	...	0.039	...
B (mg/L)	1.000	1.000	0.031	...	0.230	...
Cd (mg/L)	-	-	-	-	-	-
Cu (mg/L)	0.078	0.012	0.000	...	...	0.938
Cr (mg/L)	0.762	0.057	0.000	...	0.145	...
Cr ⁺⁶ (μ g/L)	-	-	-	-	-	-
Fe (mg/L)	0.996	0.995	0.034	...	0.016	...
Pb (mg/L)	-	0.048	-	-	-	-
Ni (mg/L)	-	-	-	-	-	-
Mn (mg/L)	0.999	0.849	0.054	0.131	...	...
Hg (μ g/L)	-	-	-	-	-	-
Hg- (ng/L)	-	-	-	-	-	-
Zn (mg/L)	0.864	0.960	0.143	0.003	...	...
Se (mg/L)	-	0.012	-	-	-	-
Sol. Ca (mg/L)	1.000	1.000	0.356	0.061	...	...
Sol. Mg (mg/L)	1.000	1.000	0.405	0.064	...	...
Sol. Ag (mg/L)	-	-	-	-	-	-
Sol. As (mg/L)	-	-	-	-	-	-

TABLE AIII-3 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE CALUMET WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol. Ba (mg/L)	1.000	0.851	0.039	...	0.036	...
Sol. B (mg/L)	1.000	1.000	0.052	0.208	...	...
Sol. Cd (mg/L)	-	-	-	-	-	-
Sol. Cu (mg/L)	-	-	-	-	-	-
Sol. Cr (mg/L)	-	-	-	-	-	-
Sol. Fe (mg/L)	0.169	1.000	0.143	0.005	...	...
Sol. Pb (mg/L)	-	0.012	-	-	-	-
Sol. Ni (mg/L)	0.078	-	-	-	-	-
Sol. Mn (mg/L)	1.000	0.241	0.317	0.348	...	...
Sol. Zn (mg/L)	0.078	0.907	0.065	0.000	...	...
Sol. Se (mg/L)	-	-	-	-	-	-

¹Significance probabilities ≤ 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 is done since standard deviation is either 0 or does not exist.

...=Not appropriate test.

TABLE AIII-4: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
DO (mg/L)	1.000	0.951	0.113	0.371	...	...
Temp (°C)	1.000	1.000	0.500	0.294	...	...
pH	0.815	0.871	0.461	0.076	...	...
Alk (mg/L)	1.000	0.823	0.258	0.027	...	...
Cl (mg/L)	1.000	0.553	0.128	0.826	...	...
Turb (NTU)	0.941	0.968	0.235	0.074	...	...
TKN (mg/L)	0.844	0.998	0.326	0.811	...	...
NH ₄ -N (mg/L)	0.834	0.030	0.090	...	...	0.339
NH ₃ -N (mg/L)	0.636	0.065	0.000	...	0.155	...
ORG-N (mg/L)	1.000	1.000	0.388	0.998	...	...
NO ₂ + NO ₃ (mg/L)	0.120	0.924	0.073	0.008	...	...
TS (mg/L)	0.998	0.818	0.315	0.966	...	...
TSS (mg/L)	0.996	0.760	0.334	0.017	...	...
VSS (mg/L)	0.698	0.950	0.291	0.056	...	...
TDS (mg/L)	0.991	0.864	0.335	0.931	...	...
Phenol (µg/L)	-	-	-	-	-	-
TNP (µg/L)	-	-	-	-	-	-
SO ₄ (mg/L)	0.989	1.000	0.291	0.973	...	...
FOG (mg/L)	-	-	-	-	-	-
TP (mg/L)	0.078	0.708	0.040	...	0.013	...
CN (mg/L)	-	0.013	-	-	-	-
WAD-CN (mg/L)	0.078	-	-	-	-	-
F (mg/L)	0.736	0.789	0.223	0.007	...	...
TOC (mg/L)	0.981	1.000	0.384	0.206	...	...
FC (cfu/100mL)	0.996	1.000	0.411	0.171	...	...
EColi (cfu/100mL)	1.000	1.000	0.493	0.883	...	...
Ca (mg/L)	1.000	0.845	0.280	0.872	...	...
Mg (mg/L)	0.999	0.946	0.176	0.109	...	...

TABLE AIII-4 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Hard (mg/L)	1.000	0.898	0.255	0.426	...	...
G. Alpha (pCi/L)	1.000	0.994	0.346	0.258	...	...
G. Beta (pCi/L)	1.000	0.932	0.243	0.488	...	...
Chlrphl (μ g/L)	1.000	0.931	0.311	0.147	...	...
Bnzn (μ g/L)	-	-	-	-	-	-
Ebnzn (μ g/L)	-	-	-	-	-	-
Toln (μ g/L)	-	-	-	-	-	-
Xyln (μ g/L)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	-	-
Ba (mg/L)	1.000	1.000	0.055	0.000	...	...
B (mg/L)	1.000	0.967	0.000	...	0.005	...
Cd (mg/L)	-	-	-	-	-	-
Cu (mg/L)	-	-	-	-	-	-
Cr (mg/L)	0.380	0.131	0.099	0.745	...	...
Cr ⁺⁶ (μ g/L)	-	-	-	-	-	-
Fe (mg/L)	0.995	0.916	0.014	0.000	...	...
Pb (mg/L)	0.078	0.040	0.000	...	...	0.440
Ni (mg/L)	-	-	-	-	-	-
Mn (mg/L)	1.000	0.734	0.043	0.000	...	...
Hg (μ g/L)	-	-	-	-	-	-
Hg- (ng/L)	0.960	0.961	0.211	0.020	...	...
Zn (mg/L)	0.657	0.999	0.067	0.026	...	...
Se (mg/L)	-	-	-	-	-	-
Sol. Ca (mg/L)	1.000	0.898	0.174	0.762	...	...
Sol. Mg (mg/L)	0.967	0.999	0.111	0.111	...	...
Sol. Ag (mg/L)	-	-	-	-	-	-
Sol. As (mg/L)	-	-	-	-	-	-

TABLE AIII-4 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JOHN E. EGAN WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol. Ba (mg/L)	1.000	0.997	0.108	0.008	...	...
Sol. B (mg/L)	1.000	0.930	0.003	...	0.016	...
Sol. Cd (mg/L)	-	-	-	-	-	-
Sol. Cu (mg/L)	-	-	-	-	-	-
Sol. Cr (mg/L)	-	0.006	-	-	-	-
Sol. Fe (mg/L)	0.976	1.000	0.416	0.061	...	...
Sol. Pb (mg/L)	-	0.006	-	-	-	-
Sol. Ni (mg/L)	-	0.032	-	-	-	-
Sol. Mn (mg/L)	1.000	0.549	0.277	0.868	...	...
Sol. Zn (mg/L)	0.192	0.991	0.128	0.028	...	...
Sol. Se (mg/L)	-	-	-	-	-	-

¹Significance probabilities ≤ 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 is done since standard deviation is either 0 or does not exist.

...=Not appropriate test.

TABLE AIII-5: SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
DO (mg/L)	1.000	0.670	0.299	0.713	...	...
Temp (°C)	1.000	0.995	0.390	0.700	...	...
pH	1.000	0.914	0.330	0.176	...	...
Alk (mg/L)	1.000	0.826	0.154	0.062	...	...
Cl (mg/L)	1.000	0.750	0.112	0.373	...	...
Turb (NTU)	1.000	0.882	0.001	...	0.028	...
TKN (mg/L)	1.000	0.949	0.226	0.228	...	...
NH ₄ -N (mg/L)	1.000	0.904	0.200	0.113	...	...
NH ₃ -N (mg/L)	1.000	1.000	0.134	0.604	...	...
ORG-N (mg/L)	1.000	0.992	0.345	0.419	...	...
NO ₂ + NO ₃ (mg/L)	1.000	1.000	0.000	...	0.000	...
TS (mg/L)	1.000	0.844	0.201	0.690	...	...
TSS (mg/L)	1.000	0.892	0.388	0.006	...	...
VSS (mg/L)	1.000	0.243	0.260	0.079	...	...
TDS (mg/L)	1.000	0.770	0.192	0.640	...	...
Phenol (µg/L)	-	-	-	-	-	-
TNP (µg/L)	-	-	-	-	-	-
SO ₄ (mg/L)	1.000	0.874	0.460	0.000	...	...
FOG (mg/L)	-	-	-	-	-	-
TP (mg/L)	0.818	0.996	0.001	...	0.002	...
CN (mg/L)	-	-	-	-	-	-
WAD-CN (mg/L)	-	-	-	-	-	-
F (mg/L)	1.000	0.996	0.099	0.001	...	...
TOC (mg/L)	0.997	0.927	0.023	...	0.887	...
FC (cfu/100mL)	0.977	1.000	0.497	0.397	...	...
EColi (cfu/100mL)	-	1.000	-	-	-	-
Ca (mg/L)	1.000	0.986	0.077	0.002	...	...
Mg (mg/L)	1.000	0.953	0.129	0.008	...	...

TABLE AIII-5 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Hard (mg/L)	1.000	0.989	0.096	0.004	...	...
G. Alpha (pCi/L)	0.990	1.000	0.335	0.102	...	...
G. Beta (pCi/L)	0.892	0.704	0.001	...	0.002	...
Chlrphl (μ g/L)	1.000	0.931	0.000	...	0.162	...
Bnzn (μ g/L)	-	-	-	-	-	-
Ebnzn (μ g/L)	-	-	-	-	-	-
Toln (μ g/L)	-	-	-	-	-	-
Xyln (μ g/L)	-	-	-	-	-	-
Ag (mg/L)	-	-	-	-	-	-
As (mg/L)	-	-	-	-	-	-
Ba (mg/L)	0.998	0.834	0.402	0.070	...	...
B (mg/L)	1.000	0.998	0.199	0.003	...	...
Cd (mg/L)	-	-	-	-	-	-
Cu (mg/L)	-	-	-	-	-	-
Cr (mg/L)	1.000	0.013	0.053	...	...	0.232
Cr ⁺⁶ (μ g/L)	-	-	-	-	-	-
Fe (mg/L)	1.000	0.290	0.225	0.000	...	...
Pb (mg/L)	-	0.042	-	-	-	-
Ni (mg/L)	-	-	-	-	-	-
Mn (mg/L)	0.994	0.498	0.566	0.003	...	...
Hg (μ g/L)	-	-	-	-	-	-
Hg- (ng/L)	0.986	0.785	0.003	...	0.251	...
Zn (mg/L)	1.000	0.819	0.345	0.120	...	...
Se (mg/L)	-	-	-	-	-	-
Sol. Ca (mg/L)	1.000	1.000	0.093	0.004	...	...
Sol. Mg (mg/L)	1.000	0.996	0.127	0.009	...	...
Sol. Ag (mg/L)	-	-	-	-	-	-
Sol. As (mg/L)	-	-	-	-	-	-

TABLE AIII-5 (Continued): SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF 67 WATER QUALITY PARAMETERS ASSAYED AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS OF THE JAMES C. KIRIE WATER RECLAMATION PLANT IN 2009

Parameter (Unit)	¹ Significance Probabilities for Testing Null Hypothesis (H_0)					
	H_0 :Normal (U)	H_0 :Normal (D)	$H_0 : \sigma_u = \sigma_d$ F	$H_0 : \mu_u = \mu_d$ Exact T	$H_0 : \mu_u = \mu_d$ Approx T	$H_0 : \mu_u = \mu_d$ WilCox T
Sol. Ba (mg/L)	0.999	0.667	0.560	0.139	...	...
Sol. B (mg/L)	1.000	0.999	0.047	...	0.000	...
Sol. Cd (mg/L)	-	-	-	-	-	-
Sol. Cu (mg/L)	-	-	-	-	-	-
Sol. Cr (mg/L)	0.818	-	-	-	-	-
Sol. Fe (mg/L)	1.000	0.988	0.001	...	0.405	...
Sol. Pb (mg/L)	-	0.006	-	-	-	-
Sol. Ni (mg/L)	-	0.329	-	-	-	-
Sol. Mn (mg/L)	1.000	0.544	0.377	0.005	...	...
Sol. Zn (mg/L)	1.000	0.993	0.406	0.001	...	...
Sol. Se (mg/L)	-	-	-	-	-	-

¹Significance probabilities ≤ 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 is done since standard deviation is either 0 or does not exist.

...=Not appropriate test.