

*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***RESEARCH AND DEVELOPMENT  
DEPARTMENT***

***REPORT NO. 04-11***

***2003 ANNUAL SUMMARY REPORT***

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

***August 2004***

**Metropolitan Water Reclamation District of Greater Chicago**  
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**2003 ANNUAL SUMMARY REPORT  
WATER QUALITY WITHIN THE WATERWAYS SYSTEM OF  
THE METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO**

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**August 2004**

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TABLE LOCATOR IN APPENDIX AII - BY PARAMETER

Parameter	Sample Means during 2003	Violation History through 2003	Mean History through 2003
	Page	Page	Page
Biochemical Oxygen Demand	AII-1		AII-63
Carbonaceous Biochemical-Oxygen Demand	AII-1		AII-64
Chemical Oxygen Demand			AII-65
Dissolved Oxygen	AII-1	AII-18	AII-66
Temperature	AII-1	AII-19	AII-67
pH	AII-2	AII-20	AII-68
Alkalinity (Total)	AII-2		AII-69
Chloride	AII-2	AII-21	AII-70
Turbidity	AII-2		AII-71
Electrical Conductivity			AII-72
Total Kjeldahl Nitrogen	AII-3		AII-73
Ammonium Nitrogen	AII-3	AII-22	AII-74
Un-ionized Ammonia	AII-3	AII-23	AII-75
Organic Nitrogen	AII-3		AII-76
Nitrite Plus Nitrate Nitrogen	AII-4		AII-77
Total Solids	AII-4		AII-78
Total Volatile Solids			AII-79
Total Suspended Solids	AII-4		AII-80
Volatile Suspended Solids	AII-4		AII-81
Total Dissolved Solids	AII-5	AII-24	AII-82
Phenols	AII-5	AII-25	AII-83
Sulfate	AII-5	AII-26	AII-84
Fats, Oils, and Greases	AII-5	AII-27	AII-85
Total Phosphorus	AII-6		AII-86
Soluble Phosphorus			AII-87
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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE LOCATOR IN APPENDIX AII - BY PARAMETER (Continued)

Parameter	Sample Means during 2003	Violation History through 2003	Mean History through 2003
	Page	Page	Page
Total Organic Carbon	AII-7		AII-91
Fecal Coliform	AII-7	AII-31	AII-92
Escherichia Coli	AII-7		AII-93
Total Calcium	AII-7		AII-94
Total Magnesium	AII-8		AII-95
Hardness	AII-8		AII-96
Gross Alpha Radioactivity	AII-8		AII-97
Gross Beta Radioactivity	AII-8	AII-32	AII-98
Chlorophyll a	AII-9		AII-99
Benzene		AII-33*	
Benzene	AII-9	AII-34	AII-100
Ethylbenzene	AII-9	AII-35	AII-101
Toluene	AII-9	AII-36	AII-102
Xylene	AII-10	AII-37	AII-103
Total Silver	AII-10	AII-38	AII-104
Total Arsenic	AII-10	AII-39	AII-105
Total Barium	AII-10	AII-40	AII-106
Total Boron	AII-11	AII-41	AII-107
Total Cadmium	AII-11	AII-42	AII-108
Total Copper	AII-11	AII-43	AII-109
Total Chromium	AII-11	AII-44	AII-110
Total Hexavalent Chromium	AII-12	AII-45	AII-111
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-13	AII-49	AII-115
Total Mercury		AII-50*	
Total Mercury	AII-13	AII-51	AII-116

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE LOCATOR IN APPENDIX AII - BY PARAMETER (Continued)

Parameter	Sample Means during 2003	Violation History through 2003	Mean History through 2003
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Total Zinc	AII-13	AII-52	AII-117
Total Selenium	AII-13	AII-53	AII-118
Soluble Calcium	AII-14		AII-119
Soluble Magnesium	AII-14		AII-120
Soluble Silver	AII-14		AII-121
Soluble Arsenic	AII-14	AII-54	AII-122
Soluble Barium	AII-15		AII-123
Soluble Boron	AII-15		AII-124
Soluble Cadmium	AII-15	AII-55	AII-125
Soluble Copper	AII-15	AII-56	AII-126
Soluble Chromium	AII-16	AII-57	AII-127
Soluble Iron	AII-16	AII-58	AII-128
Soluble Lead	AII-16	AII-59	AII-129
Soluble Nickel	AII-16	AII-60	AII-130
Soluble Manganese	AII-17		AII-131
Soluble Mercury	AII-17	AII-61	AII-132
Soluble Zinc	AII-17	AII-62	AII-133
Soluble Selenium	AII-17		AII-134

\*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 Illinois Pollution Control Board (IPCB) water quality standards for the year 2003. In addition, the District compared this data with data for 2002.

### Compliance with Water Quality Standards During 2003

#### GENERAL USE WATERS

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

System, the Des Plaines River System, the West Branch of 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 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, soluble mercury, and soluble zinc. Benzene had total compliance with the Human Health standard in all river systems.

Six of the remaining 8 parameters, viz., dissolved oxygen, temperature, pH, chloride, sulfate, and fluoride had compliance rates of greater than 86.5 percent in all river systems. Total dissolved solids had a compliance rate greater than 75.4 percent in all river systems. Fecal coliform had the lowest compliance rate, and it was in the range of 30.1 to 57.8 percent in the Chicago, Calumet, and the Des Plaines River Systems.

A comparison of 2003 data with 2002 data indicated that there was no significant difference between 2002 and 2003 compliance rates except for pH, fluoride, fecal coliform, and to-

tal silver. In the Chicago River System, the compliance rate of pH had significantly decreased from total compliance in 2002 to 95.6 percent in 2003. The compliance rate of fluoride had significantly increased to 89.2 percent in 2003 from 75.0 percent in 2002 in the Calumet River System. The compliance rate of fecal coliform had significantly decreased to 30.1 percent in 2003 from 48.9 percent in 2002 in the Des Plaines River System. The compliance rate of total silver had significantly increased to total compliance in 2003 from 92.7 percent in the Chicago River System, 87.5 percent in the Calumet River System, and 95.9 percent in the Des Plaines River System in 2002.

#### 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 the Calumet River Systems. Twenty-three water quality parameters measured in the Secondary Contact waters during 2003 had applicable IPCB standards. They were dissolved oxygen; temperature; pH; un-ionized ammonia; total dissolved solids; phenols; fats, oils, and greases; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total iron; total lead; total nickel; total manga-

nese; total mercury; total zinc; total selenium; and soluble iron.

Eighteen parameters were in complete compliance with the IPCB standards for the Chicago and the Calumet River Systems in 2003. They were temperature; pH; total dissolved solids; phenols; total cyanide; fluoride; total silver; total arsenic; total barium; total cadmium; total copper; total hexavalent chromium; total nickel; total manganese; total mercury; total zinc; total selenium; and soluble iron.

The percent compliance of the remaining 5 parameters (dissolved oxygen; un-ionized ammonia, fats, oils, and greases; total iron; and total lead), which were not in total compliance in both the river systems varied from 90.0 percent to total compliance.

A comparison of 2003 data with 2002 data indicated that there was no significant difference between the 2002 and 2003 compliance rates in both river systems except for dissolved oxygen in the Chicago River System. The compliance rate of dissolved oxygen had significantly increased from 89.4 percent in 2002 to 94.7 percent in 2003.

## 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 2002. Complete tabulations of waterway surveillance data collected by the District are available for the years 1970 through 2003.

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

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

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

## WATER QUALITY NETWORK

### Description of Waterways

The District is responsible for monitoring the quality of the waterways that are impacted by its operations. A map depicting the waterways is shown in Figure 1. These include both man-made and natural waterways.

Principal man-made 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.

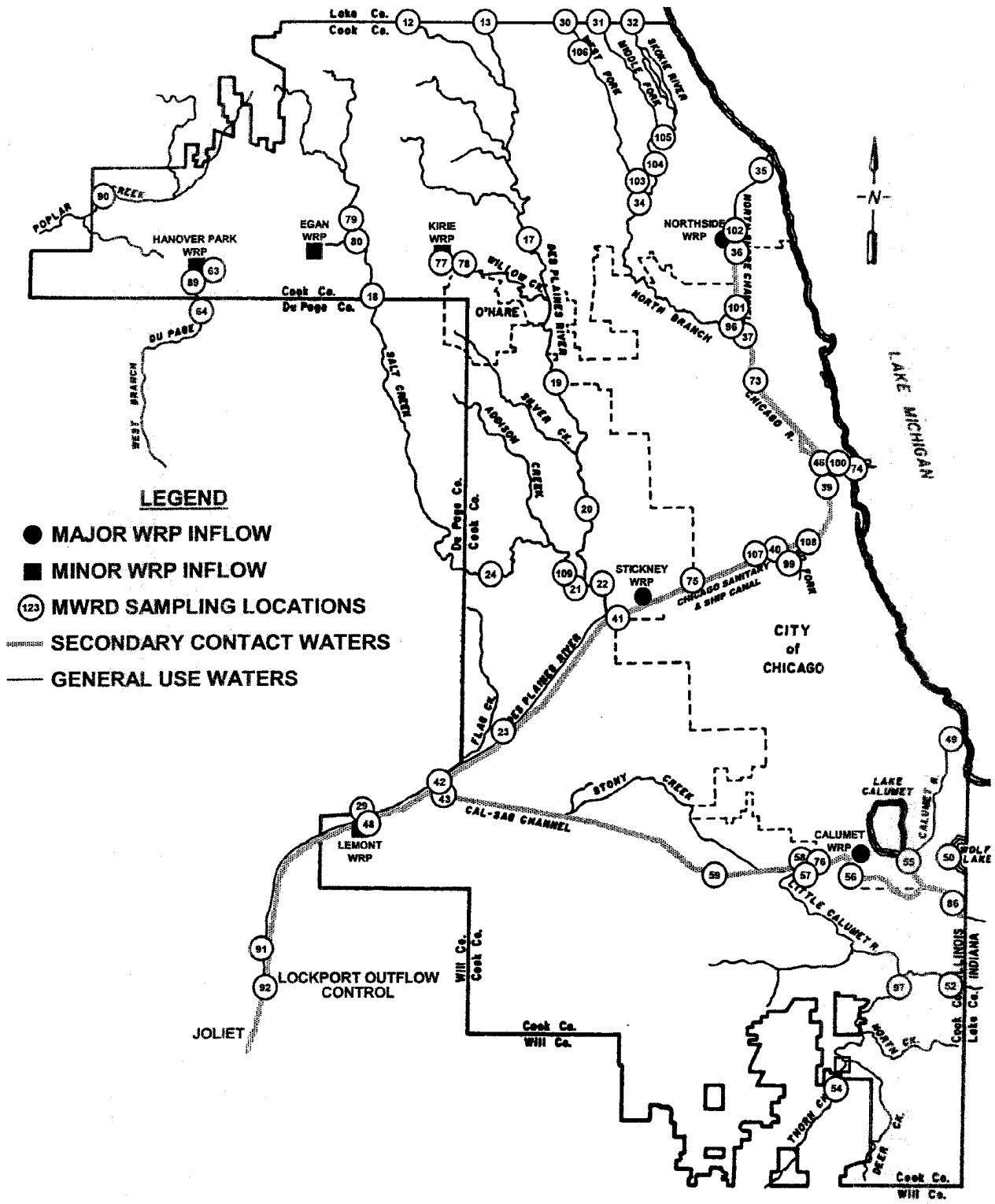
The functions of the canal system are to:

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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 1

WATERWAYS SERVICE AREA AND SAMPLING LOCATION POINTS



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 specifies that "Except as otherwise specifically provided, all waters of the State must meet the General Use standards for Subpart B of Part 302." Section 303.441 delineates those waters which do not qualify for General Use but "... are designated as Secondary Contact and Indigenous Aquatic Life Waters (Secondary Contact Waters) and must meet the water quality standards of Subpart D, Part 302." The waters within District boundaries classified for use as Secondary Contact Waters are shown in Figure 1. In general, the Secondary Contact Waters coincide with the man-made 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 updating capabilities, the system includes programs for:

- The generation of reports and graphs.
- The generation of annual summary statistics.
- 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 network is shown in Appendix AI. Water quality parameters assayed in 2003 and sampling stations are listed in Tables AI-1 and AI-2, respectively. Some locations have been added and some were discontinued in 2003. Table AI-3 is thus provided to show a complete list of locations sampled in 2002 and 2003.

Summary water quality results for 2003 are listed in

Appendix II. Annual mean values of all water quality parameters assayed at all stations sampled (grab samples only) are tabulated in Table AII-1. This table presents the numerical values of various water quality parameters, which can be used to determine any relationships that exist among them. The results of the violations of the standards are tabulated in Tables AII-2 through AII-46. Note that Tables AII-2 through AII-46 list the sampling locations where violations occurred during 2003 and their eight-year history.

In comparing data from a historical perspective, it is often desirable to view summary data from past years together with data from the current year. Tables AII-47 through AII-118 (Appendix II) were designed to present the mean values of various parameters for 1993 through 2002, with the 2003 mean values for each parameter and all locations sampled.

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

#### Water Sampling

Surface water grab samples were taken at 59 locations during 2003 as shown in Figure 1. The samples were taken on a

nominal monthly frequency, with one of the three principal river systems being sampled on a given day. The total number of samples collected monthly in each river system during 2003 is shown in Table 1. Note, that samples taken in the West Branch of the DuPage River (upstream and downstream of the Hanover Park WRP outfall), and in the Fox River System (Poplar Creek) are included with the Des Plaines River data. In addition, weekly grab samples were taken at the Lockport Forebay (location 92). Location 92 represents the point when the waterways flow leaves the District jurisdiction.

Location sampled in the respective river systems during 2003 are shown without an asterisk in Table AI-2, Appendix A-5. Twenty-six sites were sampled in the Chicago River System, 13 in the Calumet, and 20 in the Des Plaines River System (including 3 locations in the DuPage and Fox River Systems). The waterways system sampling location points correspond to the map numbers shown in Figure 1. The complete waterways sampling stations directory of all 106 stations, of which the 59 sampling locations in 2003 are a subset, are listed in Table AI-2, Appendix A-1.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 1

WATERWAYS (BRIDGE RUNS) TOTAL NUMBER OF SAMPLES  
COLLECTED MONTHLY DURING 2003

Month	Chicago River System	Calumet River System	Des Plaines River System
January	21	4	16
February	20	7	9
March	22	12	11
April	28	12	17
May	30	11	18
June	28	13	16
July	28	13	17
August	28	11	18
September	28	12	16
October	27	12	17
November	28	13	19
December	28	12	18

## Water Assays and Water Quality Criteria

The District's laboratories performed 68 types of analyses on water samples taken in District waterways during 2003. A list of 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 numbers 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. In this report, the new standards are used to assess 2003 compliance rates.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARD<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>
Five-day Biochemical Oxygen Demand	NAS*		NAS*	
Five-day Carbonaceous Biochemical Oxygen Demand	NAS*		NAS*	
Dissolved Oxygen	5 mg/L <sup>5</sup>	302.206	4 mg/L	302.405
			3 mg/L <sup>6</sup>	302.405
Temperature	32 °C <sup>7</sup> (Apr-Nov)	302.211	<34 °C 95% of the time	
	16 °C <sup>7</sup> (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	302.102	NAS*	
Turbidity	NAS*		NAS*	
Total Kjeldahl Nitrogen	NAS*		NAS*	

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARD<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>
Ammonium Nitrogen	mg/L <sup>8</sup>	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	1,000 mg/L	302.102	1,500 mg/L	302.407
Phenols	100 µg/L	302.102	300 µg/L	302.407
Sulfate	500 mg/L	302.102	NAS*	
Fats, Oils, and Greases	NAS*		15 mg/L	302.407
Total Phosphorus	NAS*		NAS*	

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARD<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>
Total Cyanide	NAS*		0.1 mg/L	302.407
Weak Acid Dissociable Cyanide	0.022 mg/L	302.208	NAS*	
Fluoride	1.4 mg/L	302.102	15 mg/L	302.407
Total Organic Carbon	NAS*		NAS*	
Fecal Coliform	400 cfu/100 ml	302.209	NAS*	
Escherichia Coli	NAS*		NAS*	
Total Calcium	NAS*		NAS*	
Total Magnesium	NAS*		NAS*	
Hardness	NAS*		NAS*	
Gross Alpha Radioactivity	NAS*		NAS*	
Gross Beta Radioactivity	100 pCi/L	302.208	NAS*	
Chlorophyll a	NAS*		NAS*	



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARD<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>
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	302.102	1.1 mg/L	302.407
Total Arsenic	NAS*		1 mg/L	302.407
Total Barium	5 mg/L	302.102	5 mg/L	302.407
Total Boron	1 mg/L	302.102	NAS*	
Total Cadmium	NAS*		0.15 mg/L	302.407
Total Copper	NAS*		1 mg/L	302.407
Total Chromium	NAS*		NAS*	
Total Hexavalent Chromium	16 µg/L	302.208	300 µg/L	302.407
Total Iron	NAS*		2 mg/L	302.407

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARD<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>
Total Lead	NAS*		0.1 mg/L	302.407
Total Nickel	NAS*		1 mg/L	302.407
Total Manganese	1 mg/L	302.102	1 mg/L	302.407
Total Mercury**	0.012 µg/L	302.658	NAS*	
Total Mercury	NAS*		0.5 µg/L	302.407
Total Zinc	NAS*		1 mg/L	302.407
Total Selenium	1 mg/L	302.102	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 <sup>9</sup>	302.208	NAS*	
Soluble Copper	mg/L <sup>10</sup>	302.208	NAS*	

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARD<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>
Soluble Chromium	mg/L <sup>11</sup>	302.208	NAS*	
Soluble Iron	1 mg/L	302.102	0.5 mg/L	302.407
Soluble Lead	mg/L <sup>12</sup>	302.208	NAS*	
Soluble Nickel	mg/L <sup>13</sup>	302.208	NAS*	
Soluble Manganese	NAS*		NAS*	
Soluble Mercury	2.21 µg/L	302.208	NAS*	
Soluble Zinc	mg/L <sup>14</sup>	302.208	NAS*	
Soluble Selenium	NAS*		NAS*	

<sup>1</sup>Water Quality Standards from 'State of Illinois Rules and Regulations', Title 35: Environmental Protection, Subtitle C: Water Pollution.

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

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

<sup>4</sup>Section Number from 1 above.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2 (Continued)

WATER SAMPLE ASSAYS PERFORMED AND CORRESPONDING  
WATER QUALITY STANDARD<sup>1</sup>

Parameter	Water Use Designations			
	General Use <sup>2</sup>		Secondary Contact <sup>3</sup>	
	Standard	Section <sup>4</sup>	Standard	Section <sup>4</sup>

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

<sup>6</sup>Calumet-Sag Channel only.

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

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

<sup>9</sup> $\text{Min}[\text{Exp}(-2.918+1.128*\ln(\text{Hard})) * (1.138672-0.041838*\ln(\text{Hard}))/1000, 0.05]$

<sup>10</sup> $\text{Exp}[-1.464+0.9422*\ln(\text{Hard})]*0.960/1000$

<sup>11</sup> $\text{Exp}[3.688+0.819*\ln(\text{Hard})]*0.316/1000$

<sup>12</sup> $\text{Exp}[-1.301+1.273*\ln(\text{Hard})]*[1.46203-0.145712*\ln(\text{Hard})]/1000$

<sup>13</sup> $\text{Exp}[0.5173+0.846*\ln(\text{Hard})]*0.998/1000$

<sup>14</sup> $\text{Exp}[0.9035+0.8473*\ln(\text{Hard})]*0.978/1000$

\*NAS = No Applicable Standard.

\*\* = Human Health Standard.

## SPECIAL INTERPRETATION OF CERTAIN WATER QUALITY STANDARDS

In most cases, the standards are unambiguous; that is, a simple numerical limit or range is given which may not be exceeded or must be met. However, there are five water quality parameters (dissolved oxygen [DO], fecal coliform, temperature, total chromium, and dissolved iron) with standards which require interpretation in light of excessive cost of sample collection and sample assay techniques at the said frequency. These costs are related to the excessive manpower requirements, and cost of performing continuous DO measurements. The interpretations of IPCB standards are given in Table 3.

In the case of dissolved oxygen, there are two standards, one based on 16 hours/day and the other based on all times. Since the District samples once per month, the District cannot define a 16-hour/day level. The District, therefore, interprets the IPCB standard for dissolved oxygen as the lower of the two numerical limits in each of the two instances shown.

The standard for fecal coliform is complicated by the required minimum of five samples collected over a 30-day period, and the use of a geometric mean. District protocols stipulate sampling once per month and, therefore, a geometric mean is

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 3

ILLINOIS POLLUTION CONTROL BOARD WATER QUALITY STANDARDS  
AND CORRESPONDING DISTRICT'S INTERPRETATION

Water Use Designation	IPCB Standard	District Interpreted Standard
1. Dissolved Oxygen		
General Use Waters	$\geq 6.0$ mg/L at least 16 hours/day	$\geq 5.0$ mg/L anytime
	$\geq 5.0$ mg/L anytime	
Secondary Contact Waters	$\geq 5.0$ mg/L at least 16 hours/day	$\geq 4.0$ mg/L anytime
Secondary Contact Waters	$\geq 4.0$ mg/L anytime	
(North Shore Channel)	$\geq 4.0$ mg/L anytime	$\geq 4.0$ mg/L anytime
(Calumet-Sag Channel effective 5/19/88)	$\geq 3.0$ mg/L anytime	$\geq 3.0$ mg/L anytime
2. 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.	$\leq 400$ cfu/100 ml anytime

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 3 (Continued)

ILLINOIS POLLUTION CONTROL BOARD WATER QUALITY STANDARDS  
AND CORRESPONDING DISTRICT'S INTERPRETATION

Water Use Designation	IPCB Standard	District Interpreted Standard
3. Temperature		
Secondary Contact Waters	<34°C, 95% of the time; <37.8°C, 100% of the time	<37.8°C anytime

not possible. In view of this, the District interprets the IPCB standard limitation of 400 counts/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 of this metal. For General Use Waters, the limit for soluble trivalent chromium is calculated as the quantity  $\exp(3.688+0.8190*\ln[\text{hard}])$  divided by 1000 expressed in mg/L. The District uses the sum of soluble hexavalent and trivalent chromium when analyzing for soluble chromium. This value is then compared to the water quality standard to assess compliance.

Starting from January 2003, the IPCB also dropped the water quality standards of total arsenic, total cadmium, total copper, total iron, total lead, total nickel, total mercury, and total zinc and introduced standards for the above dissolved metals in the General Use Waters. The IPCB also intro-



duced 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 WAD cyanide. Thus, beginning with the 1996 report, compliance determinations are made in terms of WAD 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 2003 is shown in Table 4. Of the five river systems sampled during 2003, three (Des Plaines, DuPage, and Fox) lie entirely within the General Use classification. The General Use Waters in the Chicago and Calumet River Systems comprise 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, only station 90 is considered as General Use. Similarly, in the DuPage River System, data from three sampling locations are considered as General Use; 100 feet upstream (Station 63 was sampled only once in 2003), 1,000 feet downstream (Station 89), and 7,900 feet downstream of the Hanover Park WRP treated effluent discharge into the West Branch of the Du-Page River (Station 64). The frequency of sampling during 2003 was once per month at most locations. Table 4 shows the frequency of sampling at all General Use locations in 2003.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 4

LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF  
GENERAL USE WATERS IN 2003

Map Station Name No <sup>1</sup>	Annual No. of Samples
<u>Chicago River System</u>	
106 Dundee Road, West Fork North Branch Chicago River	6
103 Golf Road, West Fork North Branch Chicago River	8
31 Lake-Cook Road, Middle Fork North Branch	9
104 Glenview Road, North Branch Chicago River	3
32 Lake-Cook Road, Skokie River	9
105 Frontage Road, Skokie River	12
34 Dempster Street, North Branch Chicago River	11
96 Albany Avenue, North Branch Chicago River	10
35 Central Street, North Shore Channel	9
102 Oakton Street, North Shore Channel	10
74 Lake Shore Drive, Chicago River	10
100 Wells Street, Chicago River	12
	<u>109</u>
<u>Calumet River System</u>	
49 Ewing Avenue, Calumet River	11
50 Burnham Avenue, Wolf Lake	12
55 130th Street, Calumet River	10
52 Wentworth Avenue, Little Calumet River	10
54 Joe Orr Road, Thorn Creek	3
97 170th Street, Thorn Creek	10
57 Ashland Avenue, Little Calumet River	10
	<u>66</u>
<u>Des Plaines River System</u>	
79 Higgins Road, Salt Creek	9
80 Arlington Heights Road, Salt Creek	12
18 Devon Avenue, Salt Creek	12
24 Wolf Road, Salt Creek	12
109 Brookfield Avenue, Salt Creek	10
77 Elmhurst Road, Higgins Creek	5
78 Wille Road, Higgins Creek	12
12 Lake-Cook Road, Buffalo Creek	8

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 4 (Continued)

LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF  
GENERAL USE WATERS IN 2003

Map Station Name No <sup>1</sup>	Annual No. of Samples
<u>Des Plaines River System</u>	
13 Lake-Cook Road, Des Plaines River	12
17 Oakton Steet, Des Plaines River	10
19 Belmont Avenue, Des Plaines River	12
20 Roosevelt Road, Des Plaines River	7
22 Ogden Avenue, Des Plaines River	5
23 Willow Springs Road, Des Plaines River	10
29 Stephen Street, Des Plaines River	11
91 Material Service Road, Des Plaines River	<u>11</u>
	158
<u>DuPage River System</u>	
63 Longmeadow Lane, West Branch DuPage River*	1
89 Walnut Lane, West Branch DuPage River	11
64 Lake Street, West Branch DuPage River	<u>12</u>
	24
<u>Fox River System</u>	
90 Route 19, Poplar Creek	<u>10</u>
	10

<sup>1</sup>Refer to Figure 1.

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

### River System Compliance Data

In the General Use Waters sampled during 2003, 31 parameters were covered by the State of Illinois Water Quality Standards. They were: dissolved oxygen, temperature, pH, chloride, ammonium nitrogen, total dissolved solids, phenols, sulfate, weak acid dissociable cyanide, fluoride, fecal coliform, gross beta radioactivity, benzene, ethylbenzene, toluene, xylene, total silver, total barium, total boron, total hexavalent chromium, total manganese, total selenium, soluble arsenic, soluble cadmium, soluble copper, soluble chromium, soluble iron, soluble lead, soluble nickel, soluble mercury, and soluble zinc. Two parameters benzene and total mercury had IPCB Human Health Standards. 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 twenty-three parameters which were in 100 percent compliance in all river systems were: ammonium nitrogen, phenols, weak acid dissociable cyanide, gross beta radioactivity, benzene, ethylbenzene, toluene, xylene, total silver, total barium, total boron, total hexavalent chromium, total manganese, total selenium, soluble arsenic, soluble cadmium, soluble copper, soluble chromium, soluble iron, soluble

lead, soluble nickel, soluble mercury, and soluble zinc. Benzene also had total compliance with the Human Health standard in all river systems.

The 8 water quality parameters, which were in less than complete compliance with General Use Water Quality Standards and 1 parameter (total mercury) which was also in less than complete compliance with Human Health Standard during 2003, are shown in Table 5. The percent compliance of these parameters in each river system is also presented.

#### CHICAGO RIVER SYSTEM

There are 13 locations (30, 106, 103, 31, 104, 32, 105, 34, 96, 35, 102, 74, and 100) in the General Use section of the river system. Location 30 was not sampled in 2003, due to low water levels.

Twenty-six parameters were in total compliance at each of the locations. In addition to the 23 parameters listed above, temperature, sulfate, and fluoride were the other 3 parameters also in total compliance. Many violations of the pertinent General Use standards of the remaining 5 parameters (dissolved oxygen, pH, chloride, total dissolved solids, and fecal coliform), and violations of the pertinent Human Health

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 5

WATER QUALITY PARAMETERS NOT IN TOTAL COMPLIANCE  
IN GENERAL USE WATERS OF  
ALL RIVER SYSTEMS IN 2003

Parameter	Estimated Percent Compliance*		
	Chicago	Calumet	Des Plaines
Dissolved Oxygen	88.3	86.5	96.2
Temperature	100.0	95.2	98.1
pH	95.6	100.0	100.0
Chloride	99.2	100.0	92.9
Total Dissolved Solids	94.9	75.4	90.0
Sulfate	100.0	86.5	100.0
Fluoride	100.0	89.2	99.2
Fecal Coliform	38.1	57.8	30.1
Total Mercury**	80.3	68.7	76.5

\*Based on the total number of samples in compliance divided by the total number of samples collected, multiplied by 100.  
\*\*Due to Human Health Standard

Standard of 1 parameter (total mercury) occurred at all 12 sampling locations of General Use waters.

The compliance rate for the fecal coliform standard was 38.1 percent. The compliance rates of other parameters (dissolved oxygen, pH, chloride, and total dissolved solids) ranged from 88.3 percent to 99.3 percent. The compliance rate for the total mercury was 80.3 due to Human Health standard.

The 15 violations of dissolved oxygen occurred in various months of 2003. Location 31 had 5 violations, 1 each month in June through October. Locations 103 had 3 violations, 1 each month in July through September. Location 32 had 2 violations, 1 each month in August and September. Locations 34, 96, 35, 102, and 74 had 1 violation each. Violation at Location 34 occurred in September, and violation at location 96 occurred in August. The violations at locations 35 and 102 occurred in May, and the violation at location 74 occurred in August. pH had 3 violations, 1 each at locations 35, 102, and 74 in December, February, and April respectively. Chloride had only 1 violation at location 103 in April. Total dissolved solids had 5 violations. Location 34 had 2 violations, 1 each month in March and May. Locations 103, 31, and 32 had 1 violation each in April.

Fecal coliform had 66 violations. Location 34 had 10 violations, 1 each month except February and April. Location 96 also



had 10 violations, 1 each month except February and March. Location 103 had 8 violations, 1 each month in April through September, November, and December. Location 32 had 7 violations, 1 each month in May through August, and October through December. Location 31 had 6 violations, 1 each month in May, July, August, September, November, and December. Location 102 also had 6 violations, 1 each month in February, May, June, and October through December. Location 105 had 5 violations, 1 each month in February, June, and August through October. Location 100 had 4 violations, 1 each month in February, May, July, and December. Location 106 had 3 violations, 1 each month in May, July, and October. Location 35 also had 3 violations, 1 each month in May, September, and October. Location 104 had 2 violations, 1 each month in May and August. Location 74 also had 2 violations, 1 each month in July and December.

Total Mercury had 22 violations due to the violations of Human Health standard. Location 105 had 4 violations, 1 each month in February, April, June, and September. Location 74 had 3 violations, 1 each month in May, November, and December. Location 100 also had 3 violations, 1 each month in September, November, and December. Location 103 had 2 violations in August and September. Location 31 had 2 violations in April and June. Location 32 had 2 violations in September and Novem-

ber. Location 34 had 2 violations in August and September. Location 96 also had 2 violations in August and September. Locations 104 and 35 had 1 violation each in August and November respectively.

#### CALUMET RIVER SYSTEM

Seven sampling locations i.e., 49, 50, 55, 52, 54, 97, and 57 are in the General Use section of the river system. In addition to the 23 parameters previously listed, which were in complete compliance in all river systems, 2 more parameters (pH, and chloride) were in total compliance for the General Use section of the Calumet River System.

However, the compliance rates for dissolved oxygen, temperature, total dissolved solids, sulfate, fluoride, and fecal coliform were 86.5, 95.2, 75.4, 86.5, 89.2, and 57.8 percent, respectively. The compliance rate of total mercury was 68.7 percent due to Human Health standard.

Dissolved oxygen had 10 violations. Location 57 had 6 violations, 1 each month in May through October. Location 52 had 3 violations, 1 each month in June through August. Location 97 had 1 violation in July. Temperature had 4 violations in March, 1 each in location 50, 52, 97, and 57.

Total dissolved solids had 16 violations. Location 97 had 7 violations, 1 each month in February through June, September and December. Location 57 had 5 violations, 1 each month in March, May, August, September, and December. Location 52 had 3 violations, 1 each month in April, June and August. Location 54 had 1 violation in June.

Sulfate had 8 violations. Location 97 had 6 violations, 1 each month in February, April, May, June, September, and December. Locations 54 and 57 had 1 violation each in June and September, respectively.

Fluoride had 8 violations. Location 52 had 6 violations, 1 each month in March through June, August, and December. Locations 57 had 2 violations, 1 each month in March and May.

Fecal coliform had 30 violations. Location 57 had 10 violations, 1 each month in March through December. Location 52 had 9 violations, 1 each month in March through May, July through December. Location 97 had 7 violations, 1 each month in February, June, July, September through December. Location 55 had 2 violations, 1 each month in July and November. Location 54 had 2 violations, 1 each month in July and November.

Total mercury had 20 violations due to Human Health standard violations. Location 50 had 5 violations, 1 each month in February, May, September, November, and December. Location 57

had 4 violations, 1 each month in May, and August through October. Location 52 had 3 violations, 1 each month in May, August, and October. Location 97 also had 3 violations, 1 each month in May, September, and October. Location 49 had 2 violations in August and September. Location 55 also had 2 violations in May and August. Location 54 had 1 violation in November.

#### DES PLAINES RIVER SYSTEM

Twenty sampling locations i.e., 90, 63, 89, 64, 79, 80, 18, 24, 109, 77, 78, 12, 13, 17, 19, 20, 22, 23, 29, and 91 are in the General Use section of the river system. Three sampling locations (63, 89, 64) on DuPage River and 1 sampling location (90) on Poplar Creek are included in the General Use sampling locations.

In addition to the 23 parameters previously listed, which were in total compliance in all river systems, 2 other parameters (pH, and sulfate) were also in total compliance. The compliance rates of the remaining 6 parameters i.e., dissolved oxygen, temperature, chloride, total dissolved solids, fluoride, and fecal coliform were 96.2, 98.1, 92.9, 90.0, 99.2, and 30.1 percent, respectively. Total mercury had 76.5 percent compliance due to Human Health standard.

Dissolved oxygen had 8 violations. Location 79 had 2 violations in July and August. Location 19 also had 2 violations in July and November. Locations 12 had 1 violation in July, location 13 had 1 violation in July, location 17 had 1 violation in December, and location 20 had 1 violation in August. Temperature had 2 violations in February, 1 violation each at locations 80 and 18.

Chloride had 11 violations. Location 24 had two violations, 1 each month in February and April. In February, locations 77, 78, and 19 had 1 violation each. In April, locations 89, 79, 80, 18, 109, and 12 had 1 violation each.

Total dissolved solids had 15 violations. Locations 89 and 24 had two violations each, 1 violation each month in February and April at both locations. In February, locations 64, 77, 78, and 19 had 1 violation each. In April, locations 79, 80, 18, 109, 12, and 23 had 1 violation each. Location 90 had 1 violation in January.

Fluoride had 1 violation at location 78 in March.

Fecal coliform had 134 violations. Location 18 had 12 violations, 1 violation each month. Location 109 had 10 violations, 1 each month except February and March. Locations 89, 64, and 24 had 9 violations each, 1 each month in January through May, July, August, November, and December at all 3 locations. Location 91 also had 9 violations, 1 each month in January, March, April, July through September, 2 in November and 1 in December. Location 78 had

8 violations, 1 each month in February through April, July through September, November, and December. Location 19 had 8 violations, 1 each month in January, February, April, May, July through September, and November. Location 23 had 8 violations, 1 each month in April through November. Location 80 had 7 violations, 1 each month in January through April, July, November, and December. Location 29 had 7 violations, 1 each month in April, May, and July through November. Location 13 had 6 violations, 1 each month in February, March, May, July, August, and November. Location 77 had 5 violations, 1 each month in February, May, July, August, and November. Location 12 had 5 violations, 1 each month in April, May, July, August, and November. Location 17 had 5 violations, 1 each month in May, July through September, and November. Locations 90 and 79 had 4 violations each, 1 each month in May, July, August, and November for both locations. Location 20 had 4 violations, 1 each month in June, August, September, and November. Location 22 also had 4 violations, 1 each month in January, April, November, and December. Location 63 had 1 violation in May.

Total mercury had 50 violations due to exceeding the Human Health standard limit. Location 64 had 4 violations, 1 each month in June, July, November, and December. Location 79 had 4 violations, 1 each month in April, June, August, and December. Location 17 had 4 violations, 1 each month in June,

August, October, and December. Locations 80, 24, 78, 12, 13, 19, 20, and 23 had 3 violations each, all these violations occurred in April, and during the July through December period. Locations 90, 18, 109, 77, 29, and 91 had 2 violations each, these violations occurred during the July through December period. Locations 89 and 22 had 1 violation each in November and December, respectively.

A comparison of 2003 data with 2002 data indicated that there was no significant difference between 2002 and 2003 compliance rates except for pH, fluoride, fecal coliform, and total silver. In the Chicago River system, the compliance rate of pH had significantly decreased from total compliance in 2002 to 95.6 percent in 2003. The compliance rate of fluoride had significantly increased to 89.2 percent in 2003 from 75.0 percent in 2002 in the Calumet River System. The compliance rate of fecal coliform had significantly decreased to 30.1 percent in 2003 from 48.9 percent in 2002 in the Des Plaines River System. The compliance rates of total silver had significantly increased to total compliance in 2003 from 92.7 percent in the Chicago River System, 87.5 percent in the Calumet River System, and 95.9 percent in the Des Plaines River System in 2002.

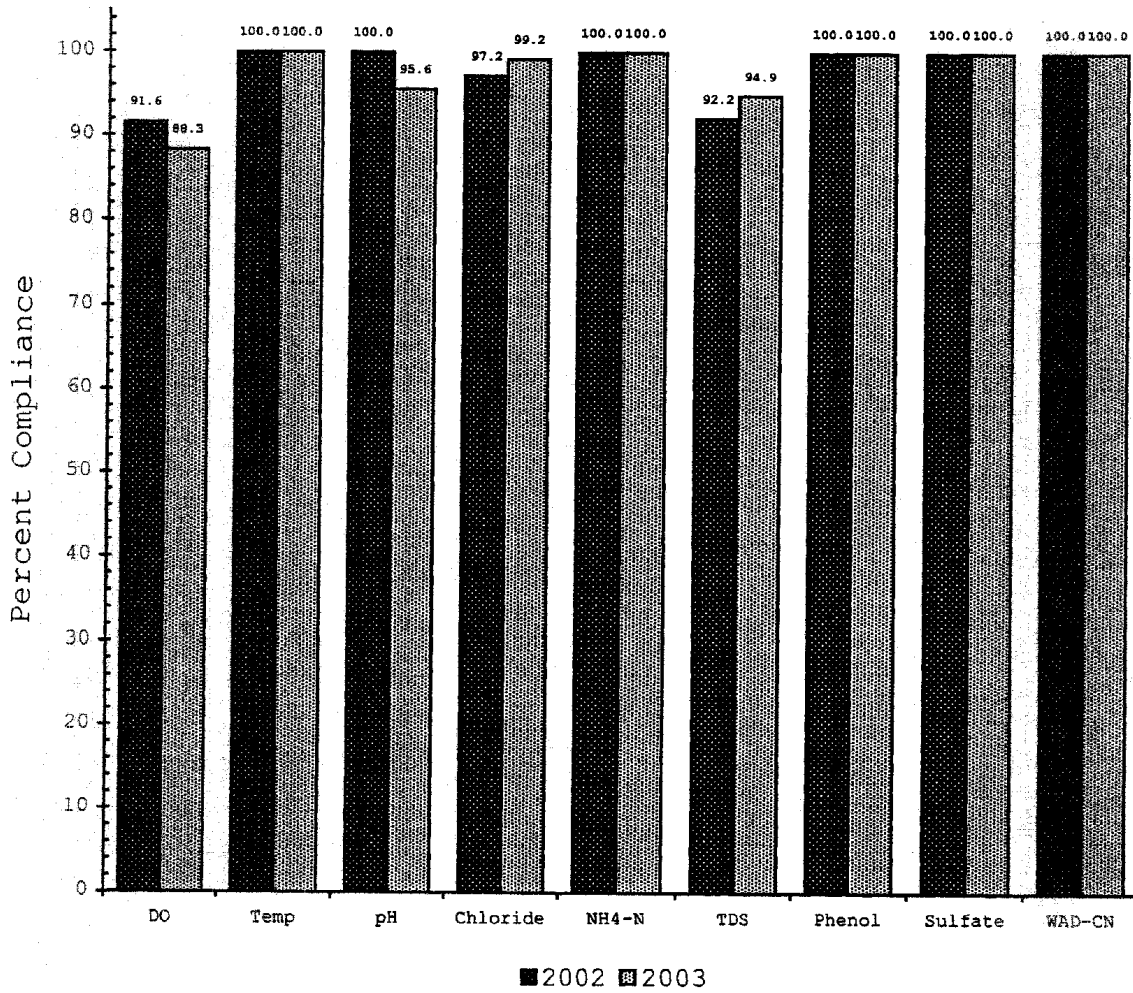
The compliance rates of 31 water quality parameters for the Chicago, Calumet, and Des Plaines River Systems are presented in Figures 2, 3, and 4, respectively. The ratio of violations (number of violations divided by the total number of observations) that occurred at each sampling location in the 3 river systems for the last 8 years (1996 through 2003) are presented in Appendix II, Tables AII-2 through AII-46.



METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 2

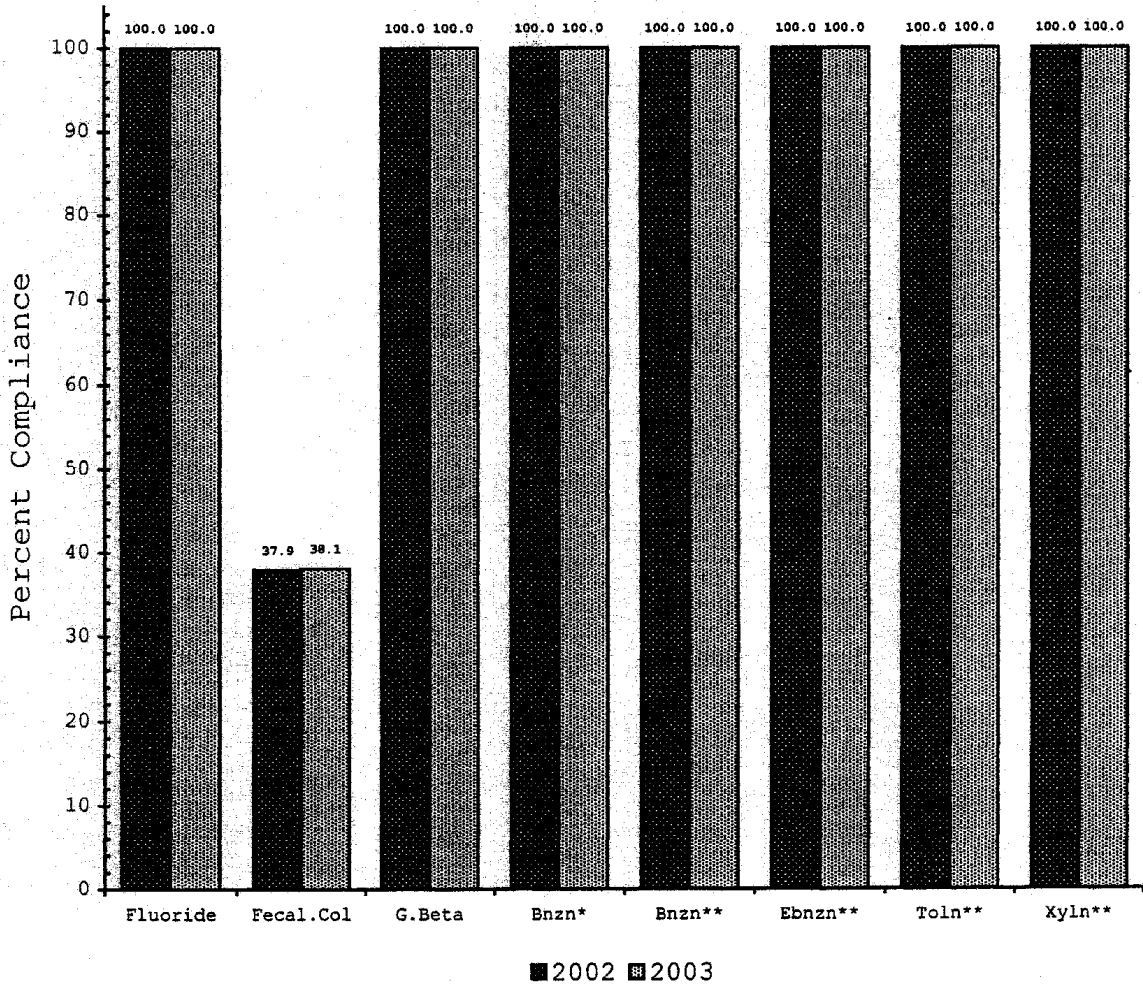
COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE CHICAGO RIVER IN 2002 AND 2003



METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 2 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE CHICAGO RIVER IN 2002 AND 2003

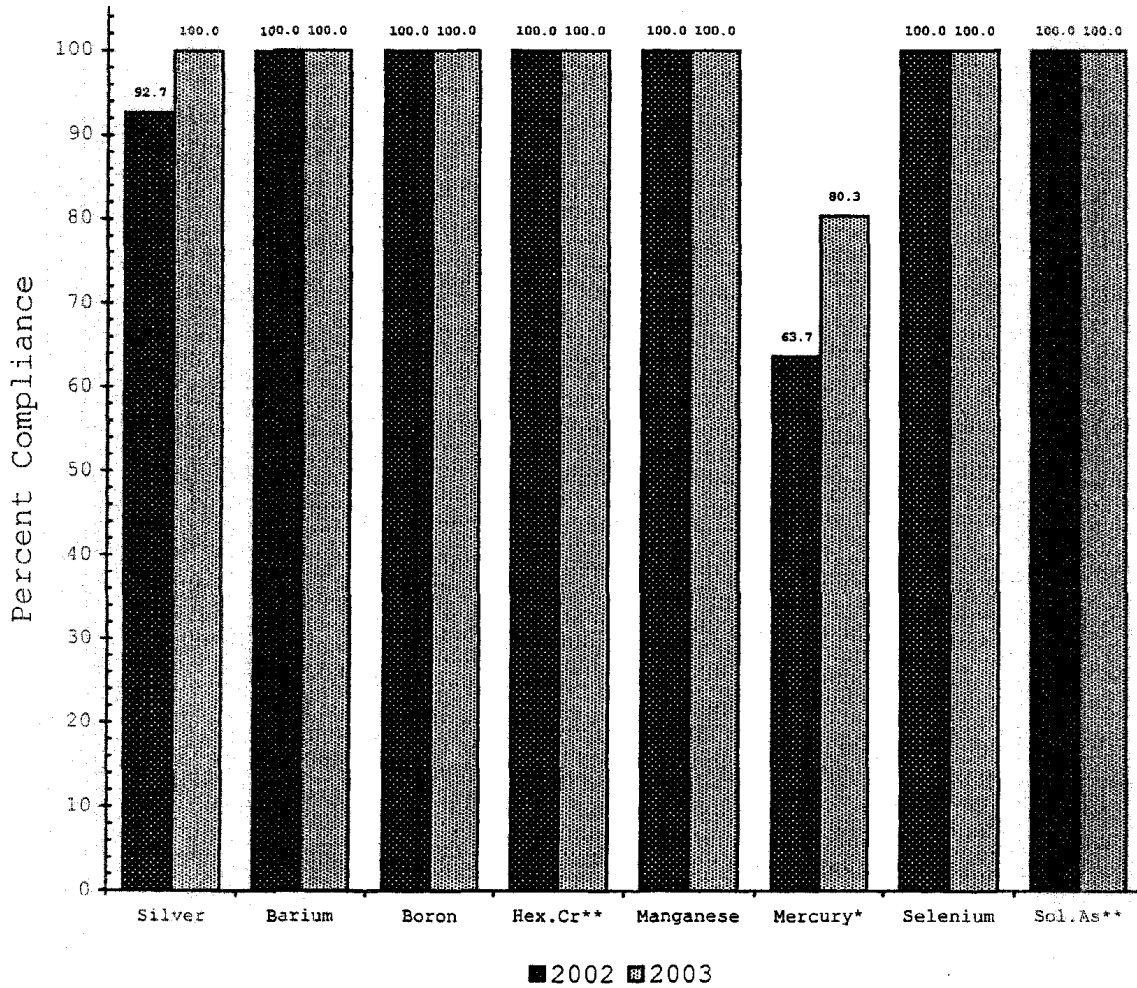


\*Human Health standard became effective in General Use waters in December, 2002  
\*\*General Use standard became effective in December, 2002

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 2 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE CHICAGO RIVER IN 2002 AND 2003



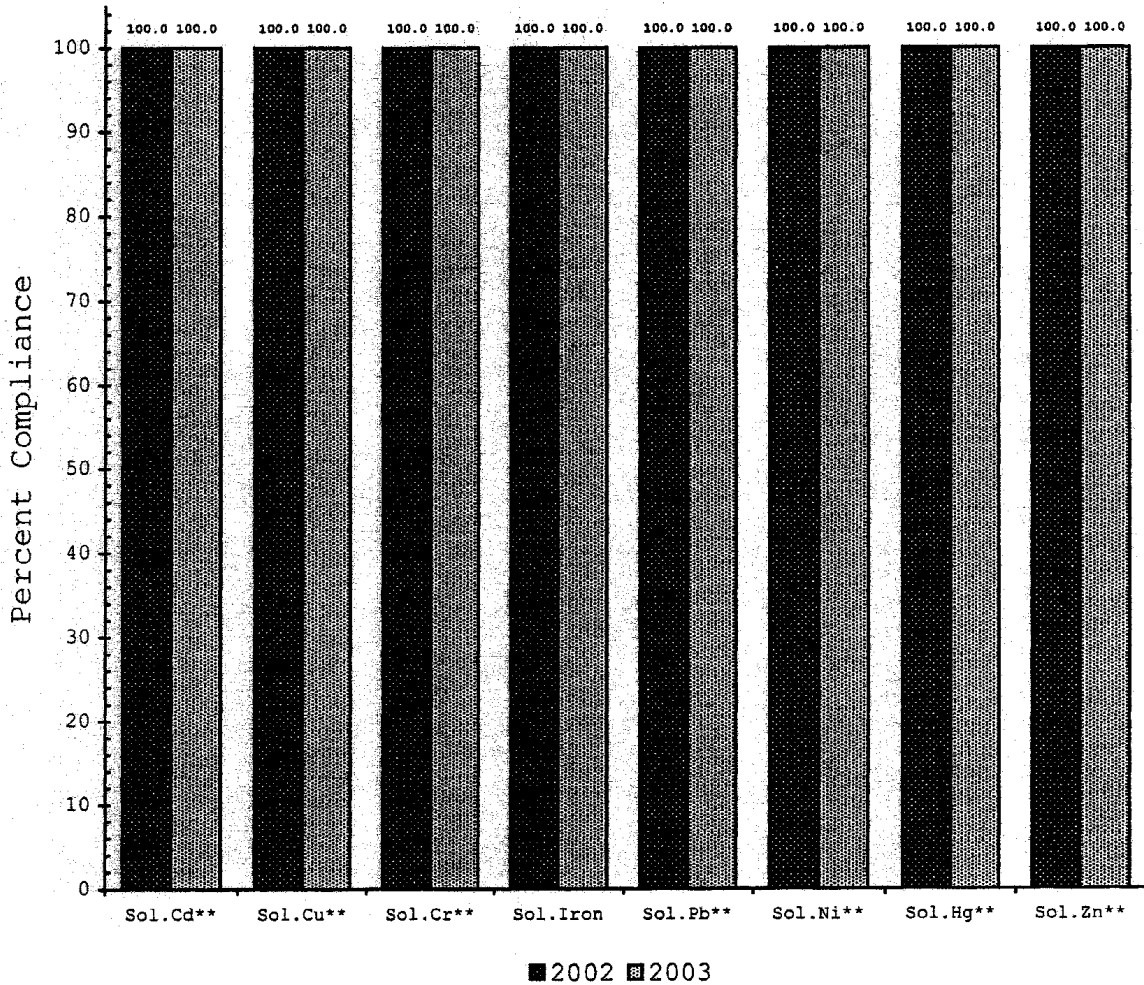
\*Human Health standard became effective in General Use waters in December, 2002

\*\*General Use standard became effective in December, 2002

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 2 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE CHICAGO RIVER IN 2002 AND 2003

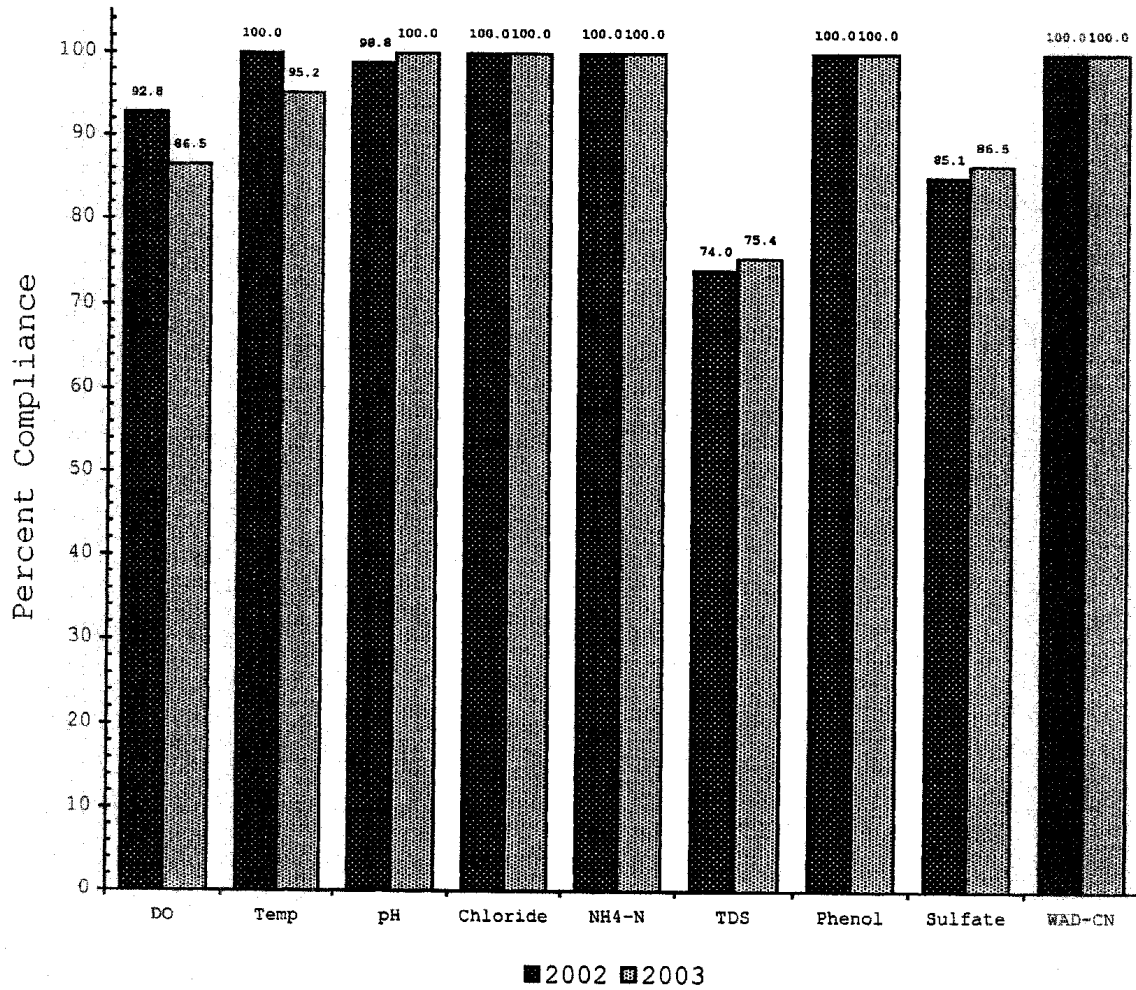


\*\*General Use standard became effective  
in December, 2002

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 3

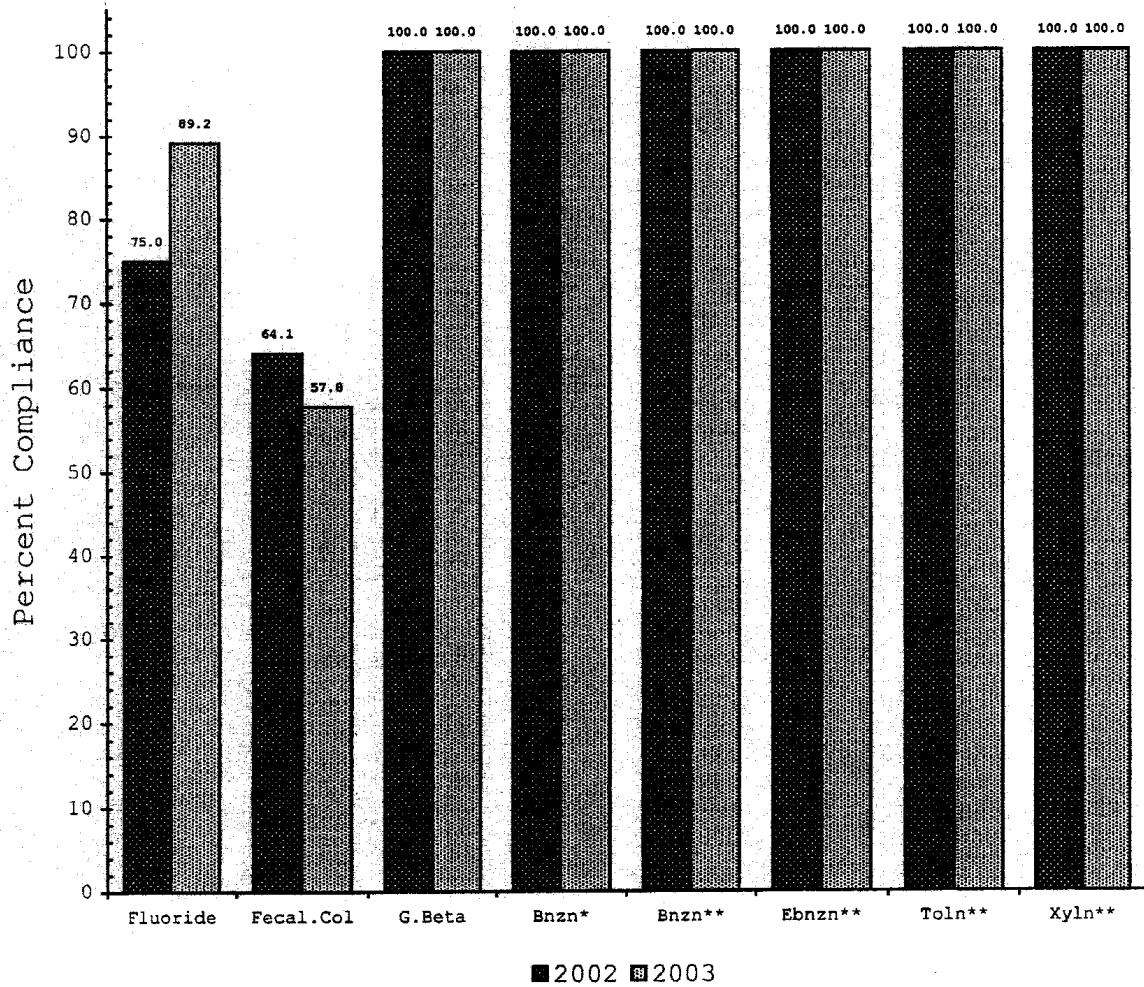
COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE CALUMET RIVER IN 2002 AND 2003



METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 3 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE CALUMET RIVER IN 2002 AND 2003



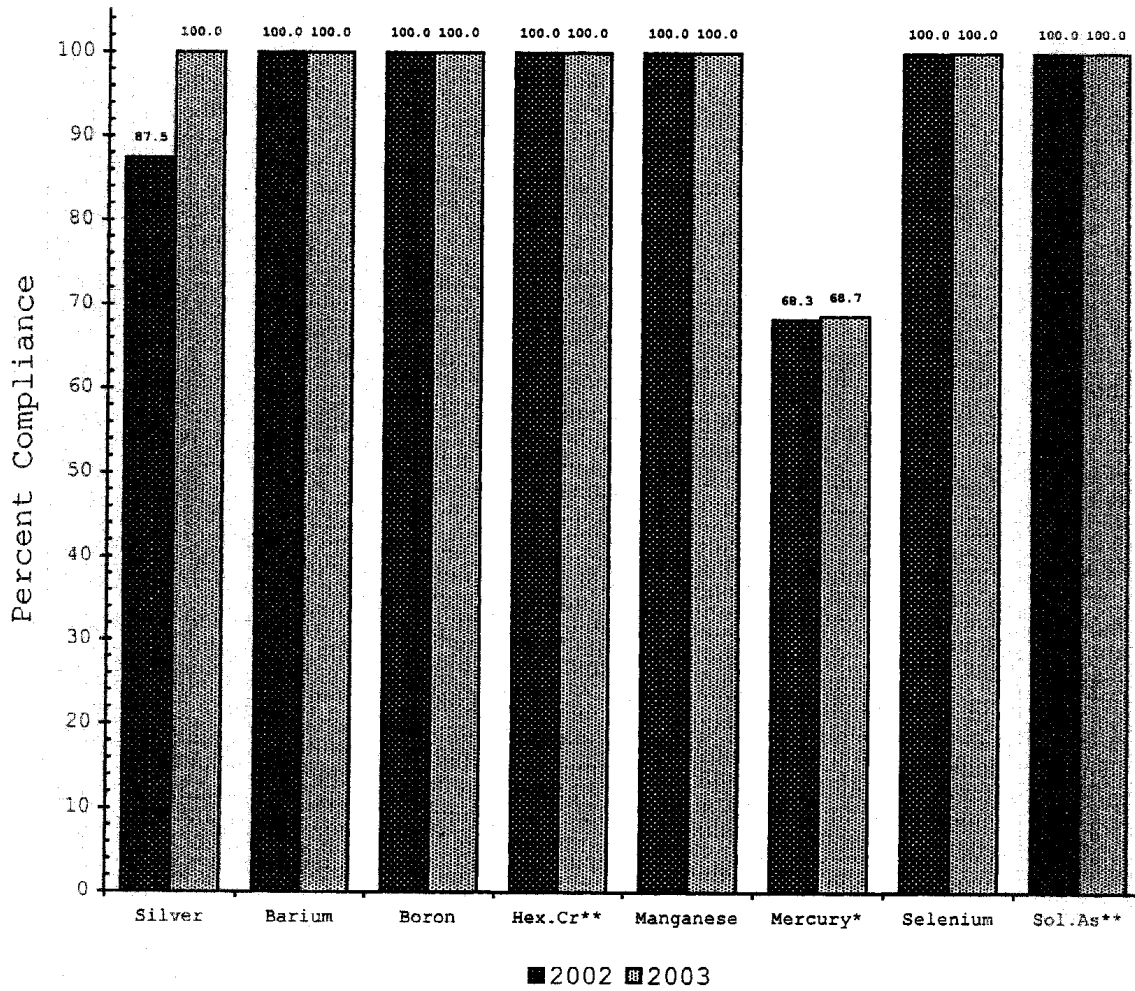
\*Human Health standard became effective in General Use waters in December, 2002

\*\*General Use standard became effective in December, 2002

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 3 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE CALUMET RIVER IN 2002 AND 2003

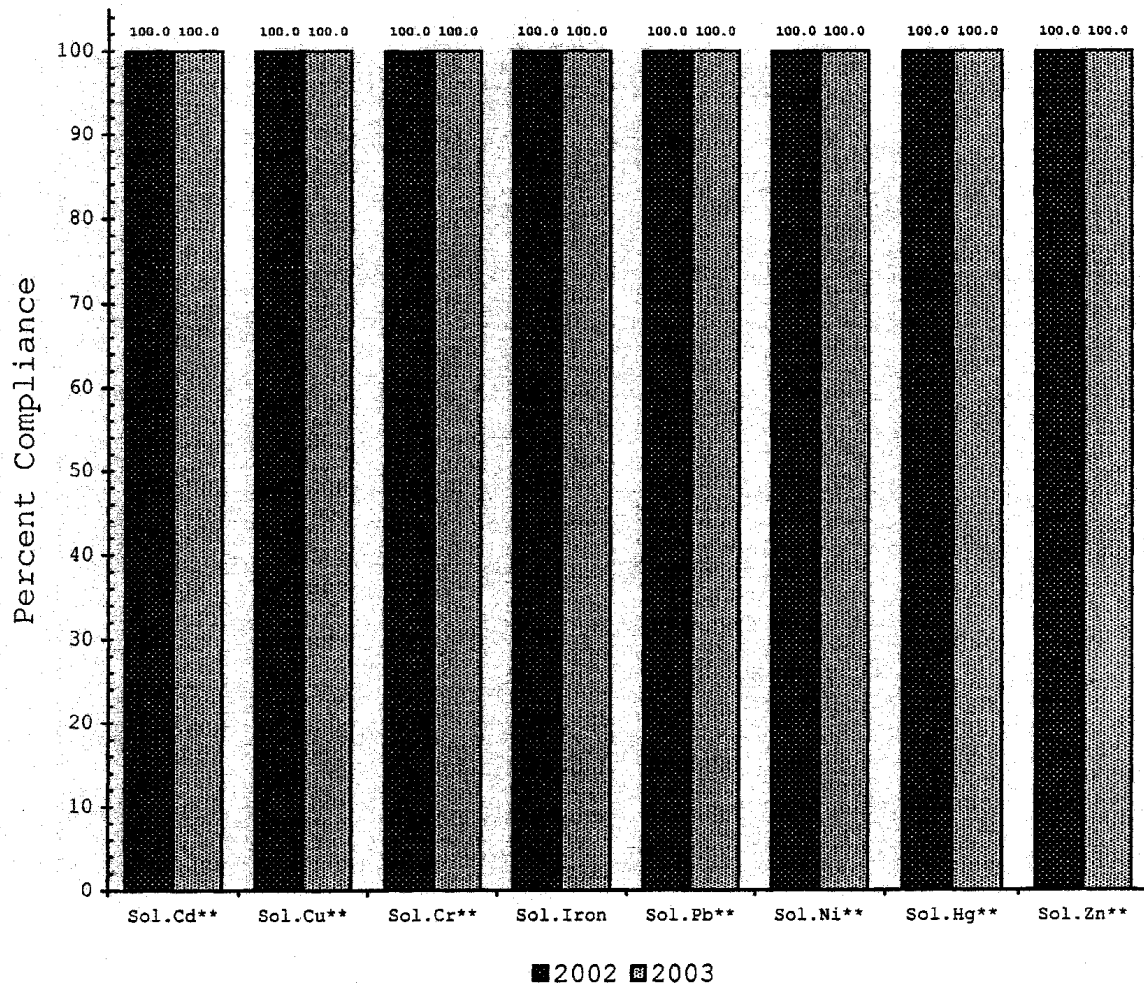


\*Human Health standard became effective in General Use waters in December, 2002.  
\*\*General Use standard became effective in December, 2002

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 3 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE CALUMET RIVER IN 2002 AND 2003



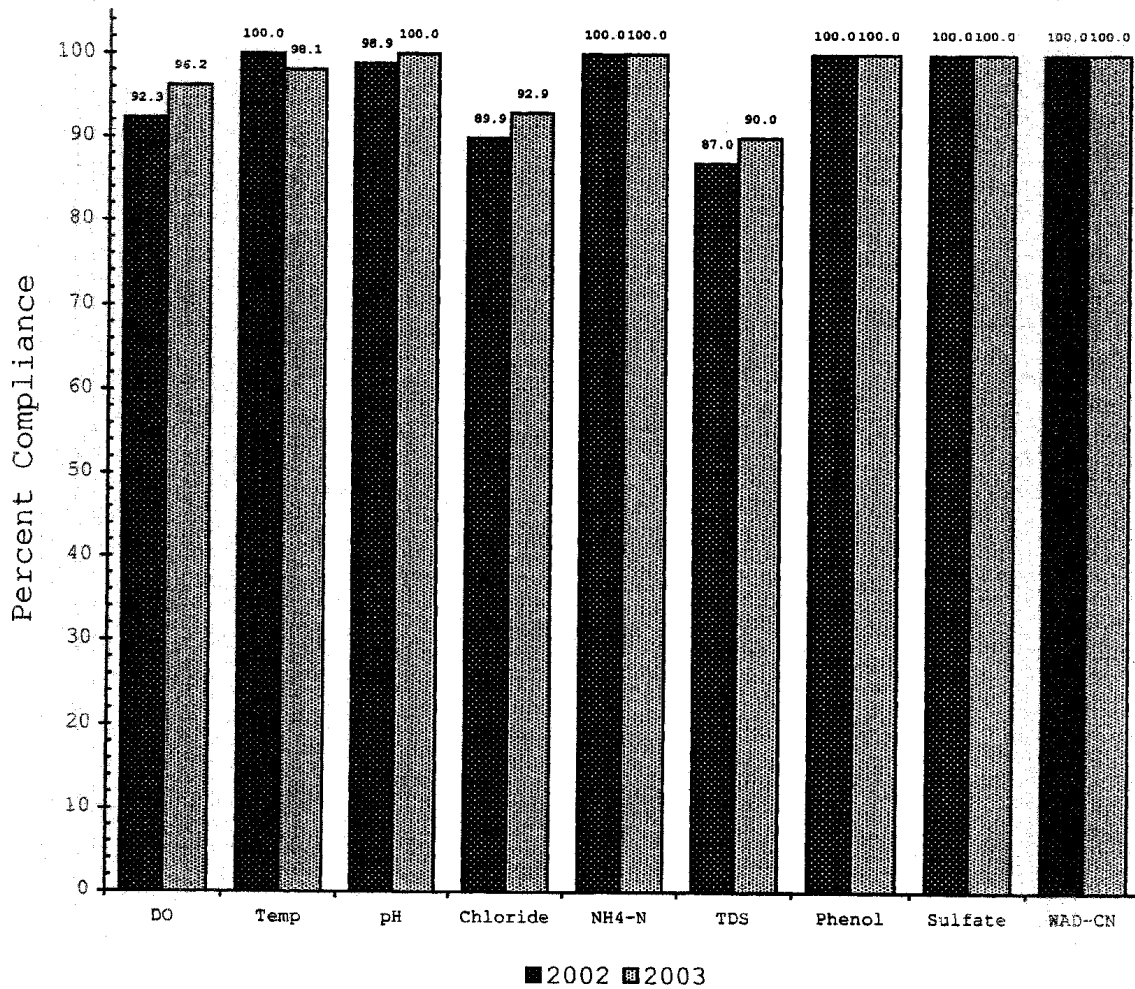
\*\*General Use standard became effective  
in December, 2002



METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 4

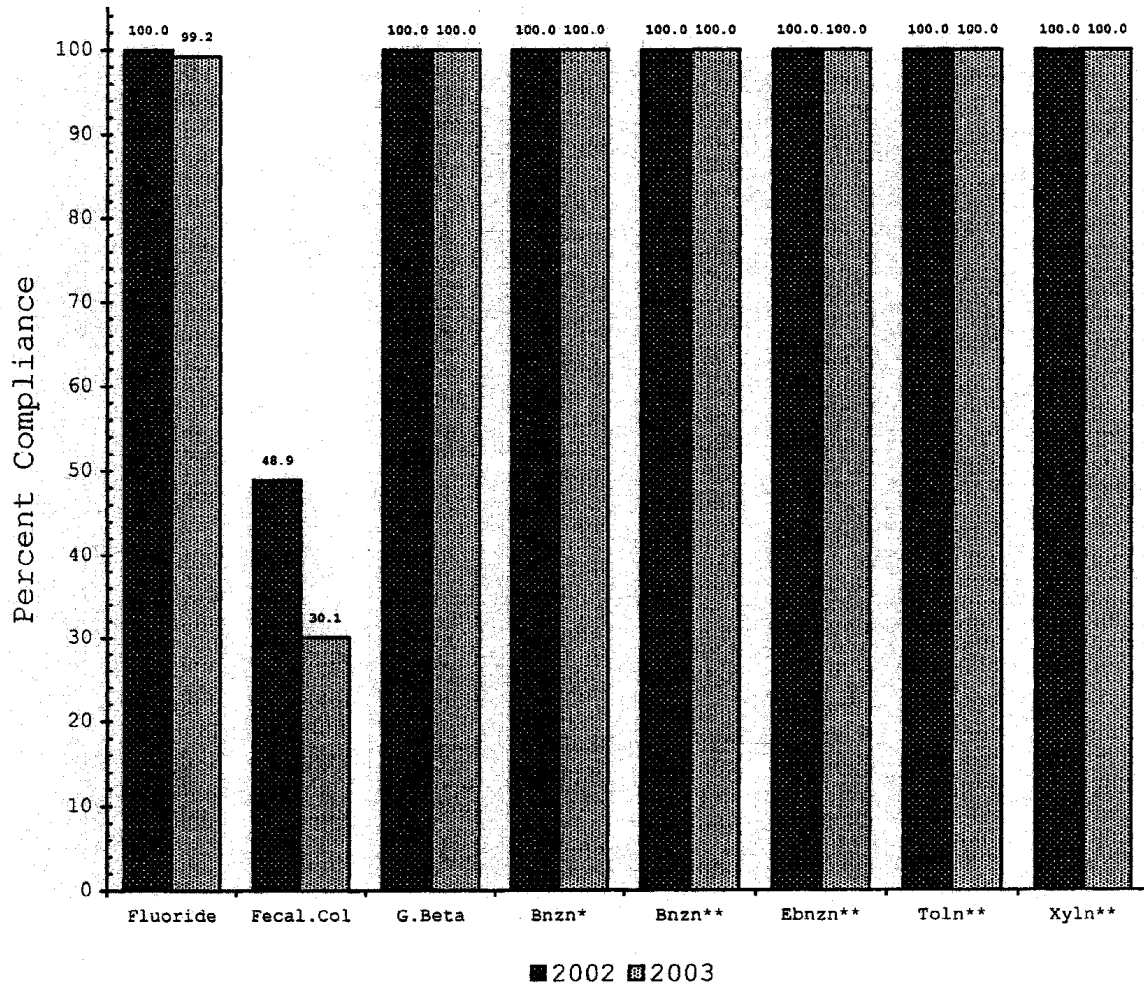
COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE DES PLAINES RIVER IN 2002 AND 2003



METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 4 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE DES PLAINES RIVER IN 2002 AND 2003



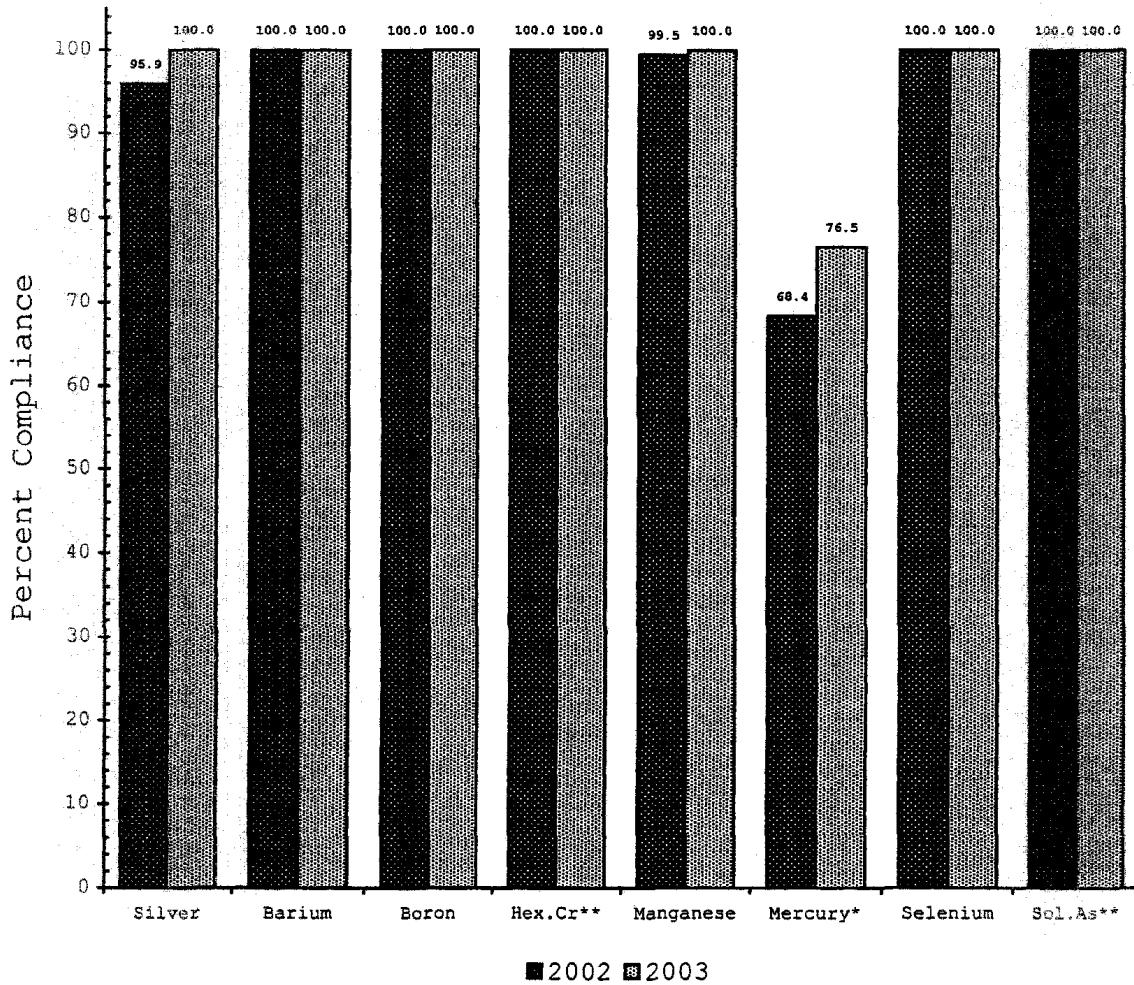
\*Human Health standard became effective in General Use waters in December, 2002

\*\*General Use standard became effective in December, 2002

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 4 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE DES PLAINES RIVER IN 2002 AND 2003



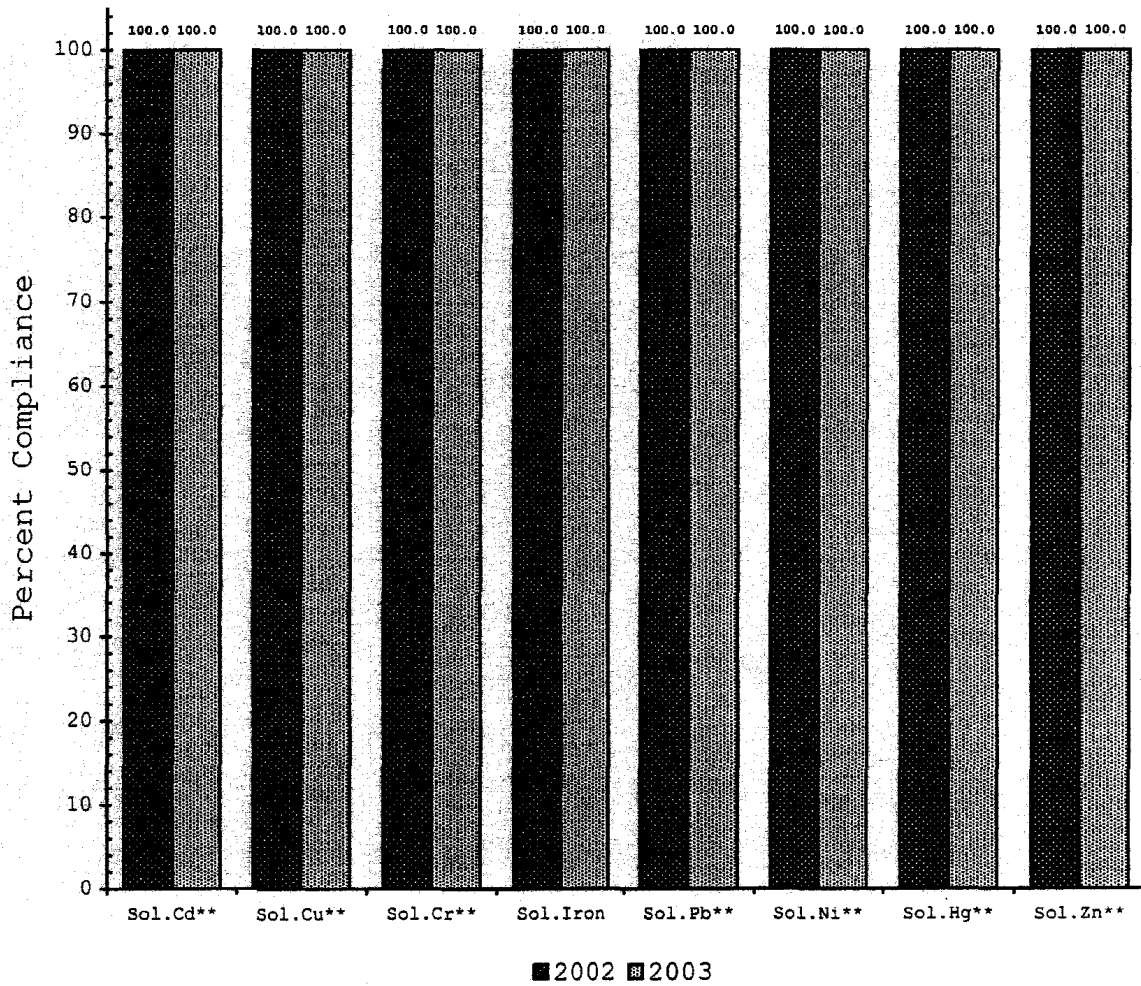
\*Human Health standard became effective in General Use waters in December, 2002

\*\*General Use standard became effective in December, 2002

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 4 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR GENERAL USE WATER SECTION OF  
THE DES PLAINES RIVER IN 2002 AND 2003



\*\*General Use standard became effective  
in December, 2002

COMPLIANCE WITH WATER QUALITY STANDARDS IN SECONDARY  
CONTACT WATERS

Sampling Locations and Frequencies

As shown in Figure 1, the waters designated as Secondary Contact Waters include the principal man-made canals in the Chicago and Calumet River Systems. The sampling locations used during 2003, and the annual frequencies of sampling are shown in Table 6. Also, Tables AII-2 through AII-46 show the number of violations and the annual frequencies of sampling. Location 39 was sampled 11 times in 2003, while 12 other stations (36, 101, 37, 73, 46, 108, 99, 40, 75, 41, 42, and 48) were sampled routinely once a month in the Chicago River System. 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 collecting weekly grab samples at location 92 (Lockport Forebay) in 2002. In the Calumet River System, location 86 was sampled 10 times, location 58 was sampled 12 times while locations 56, 76, 59, and 43 were sampled 11 times each in 2003.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 6

LOCATIONS SAMPLED AND ANNUAL SAMPLING FREQUENCIES OF  
SECONDARY CONTACT WATERS IN 2003

Map Station Name No <sup>1</sup>	Annual No. of Samples
<u>Chicago River System</u>	
36 Touhy Avenue, North Shore Channel	12
101 Foster Avenue, North Shore Channel	12
37 Wilson Avenue, North Branch Chicago River	12
73 Diversey Parkway, North Branch Chicago River	12
46 Grand Avenue, North Branch Chicago River	12
39 Madison Street, South Branch Chicago River	11
108 Loomis Street, South Branch Chicago River	12
99 Archer Avenue, South Fork South Branch Chicago River	12
40 Damen Avenue, Chicago Sanitary & Ship Canal	12
75 Cicero Avenue, Chicago Sanitary & Ship Canal	12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	12
42 Route 83, Chicago Sanitary & Ship Canal	12
48 Stephen Street, Chicago Sanitary & Ship Canal	12
92 Lockport Forebay, Chicago Sanitary & Ship Canal	<u>52</u>
	207
<u>Calumet River System</u>	
86 Burnham Avenue, Grand Calumet River	10
56 Indiana Avenue, Little Calumet River	11
76 Halsted Street, Little Calumet River	11
58 Ashland Avenue, Calumet Sag Channel	12
59 Cicero Avenue, Calumet Sag Channel	11
43 Route 83, Calumet Sag Channel	<u>11</u>
	66

<sup>1</sup>Refer to Figure 1.

### River System Compliance Data

In Secondary Contact Waters sampled during 2003, 23 parameters had IPCB Water Quality Standards. Summary results, including means and compliance standards, are shown in Appendix II for the Chicago and Calumet River Systems.

Generally, compliance with IPCB standards was high in 2003 in both the Chicago and Calumet River Systems. Eighteen water quality parameters were in complete compliance in both of these river systems. They were temperature, pH, total dissolved solids, phenols, total cyanide, fluoride, total silver, total arsenic, total barium, total cadmium, total copper, total hexavalent chromium, total nickel, total manganese, total mercury, total zinc, total selenium, and soluble iron.

Five water quality parameters, which were not in complete compliance in both of the river systems, are listed below with observed compliance rates.

<u>Parameters</u>	<u>Percent Compliance Rate</u>	
	<u>Chicago</u>	<u>Calumet</u>
Dissolved Oxygen	94.7	90.0
Un-ionized Ammonia	100.0	98.6
Fats, Oils, and Greases	98.8	98.6
Total Iron	100.0	92.8
Total Lead	98.5	100.0

## CHICAGO RIVER SYSTEM

In addition to the 18 parameters previously listed, which were in complete compliance in Chicago and Calumet River Systems, un-ionized ammonia and total iron are the other 2 parameters which had complete compliance. The 3 parameters (dissolved oxygen; fats, oils, and greases; and total lead), which were not in total compliance, had a compliance rate in the range of 94.7 to 98.8 percent.

Dissolved oxygen had 11 violations. Location 92 had 5 violations, 1 in April, and 2 each in June and July. Location 75 had 3 violations, 1 each month in May, July, and October. Location 99 had 2 violations, 1 each month in April and May. Location 42 had 1 violation September. Fats, Oils, and Greases had 2 violations at location 92, 1 each in April and September. Total lead had 3 violations in November, 1 each at locations 37, 73, and 46.

## CALUMET RIVER SYSTEM

In addition to the 18 parameters previously listed, which were in complete compliance in the Chicago and the Calumet River Systems, total lead was the only other parameter that had complete compliance. However, the compliance rates for dissolved oxygen; un-ionized ammonia; fats, oils, and greases;



and total iron were 90.0, 98.6, 98.6, and 92.8 percent, respectively.

All 7 violations of dissolved oxygen occurred at location 86, 1 each month in April, May, and July through November.

Un-ionized ammonia had only 1 violation at location 86 in March. Fats, oils, greases also had 1 violation at location 86 in April. Total iron had 5 violations. Location 86 had 3 violation, 1 each month in April, May and September. In July, there were 2 violations, 1 each at locations 58 and 43.

A comparison of 2003 data with 2002 data indicated that there was no significant difference between the 2002 and 2003 compliance rates in both river systems except for dissolved oxygen in the Chicago River System. In the Chicago River System, the compliance rate of dissolved oxygen had significantly increased from 89.4 percent in 2002 to 94.7 percent in 2003.

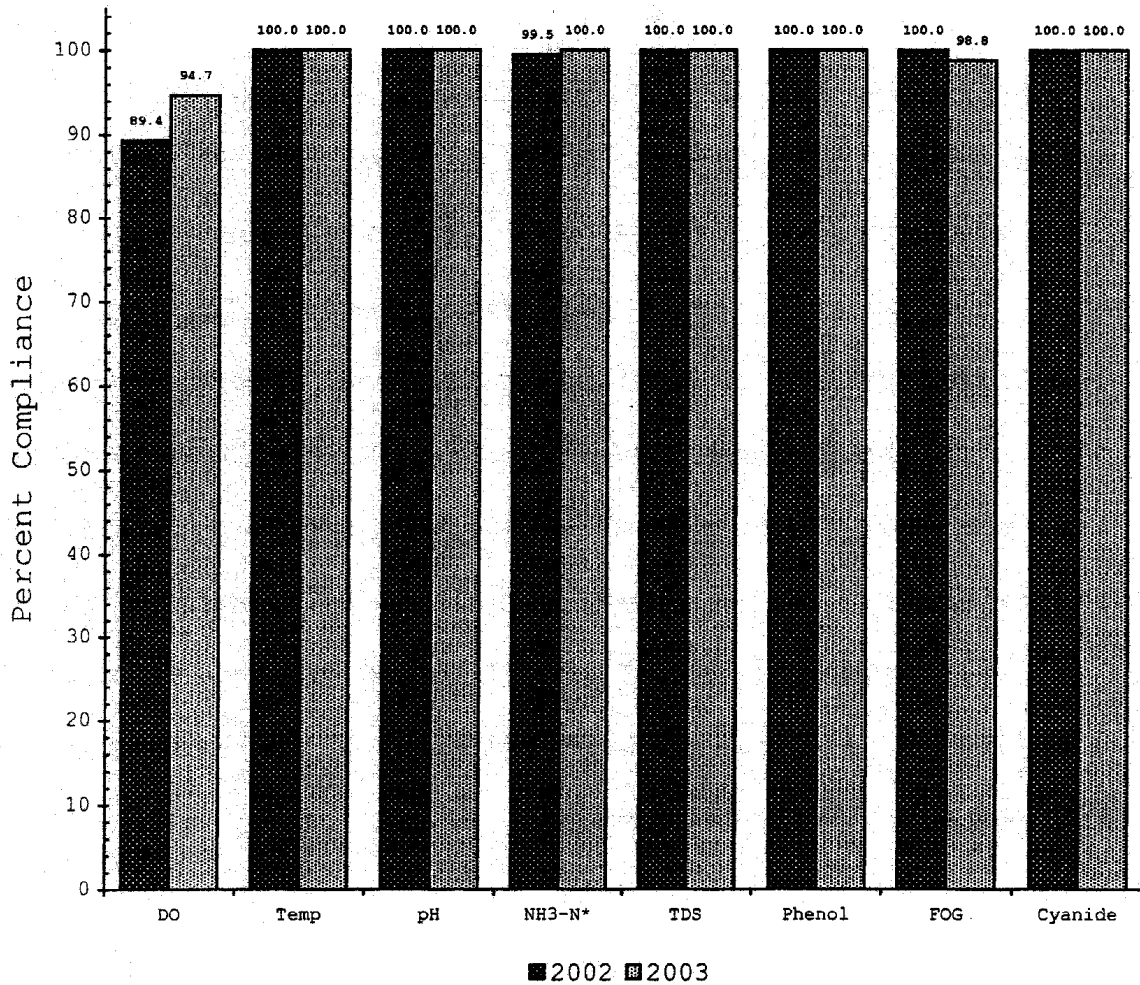
The compliance rates of 23 water quality parameters for the Chicago and the Calumet River Systems are presented in Figures 5 and 6, respectively.

The ratio of violations (number of violations divided by total number of observations) that occurred at each sampling location in the 2 river systems for the last 8 years (1996 through 2003) are presented in Appendix II, Tables AII-2 through AII-46.

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 5

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR SECONDARY CONTACT WATER SECTION OF  
THE CHICAGO RIVER IN 2002 AND 2003

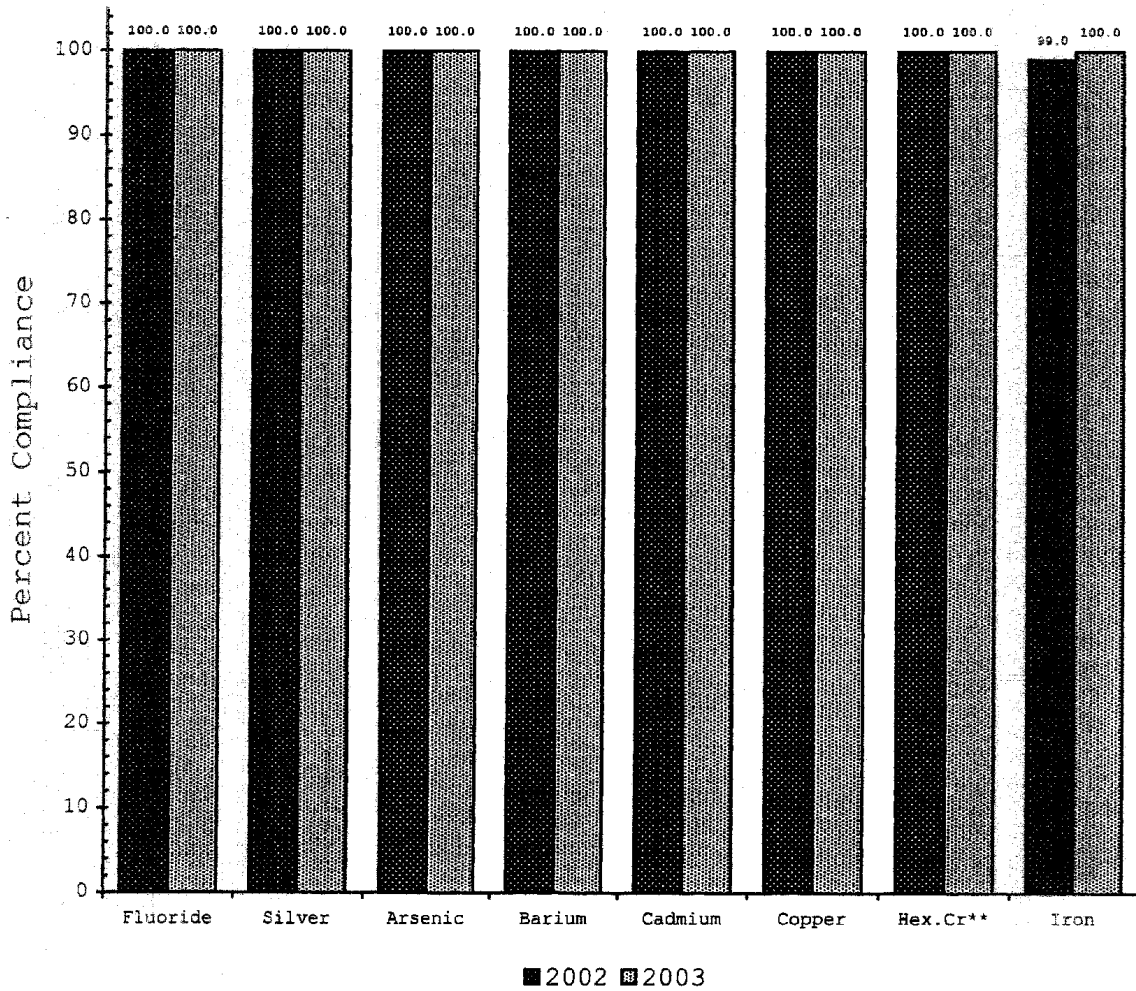


\*Un-ionized Ammonia

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 5 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR SECONDARY CONTACT WATER SECTION OF  
THE CHICAGO RIVER IN 2002 AND 2003

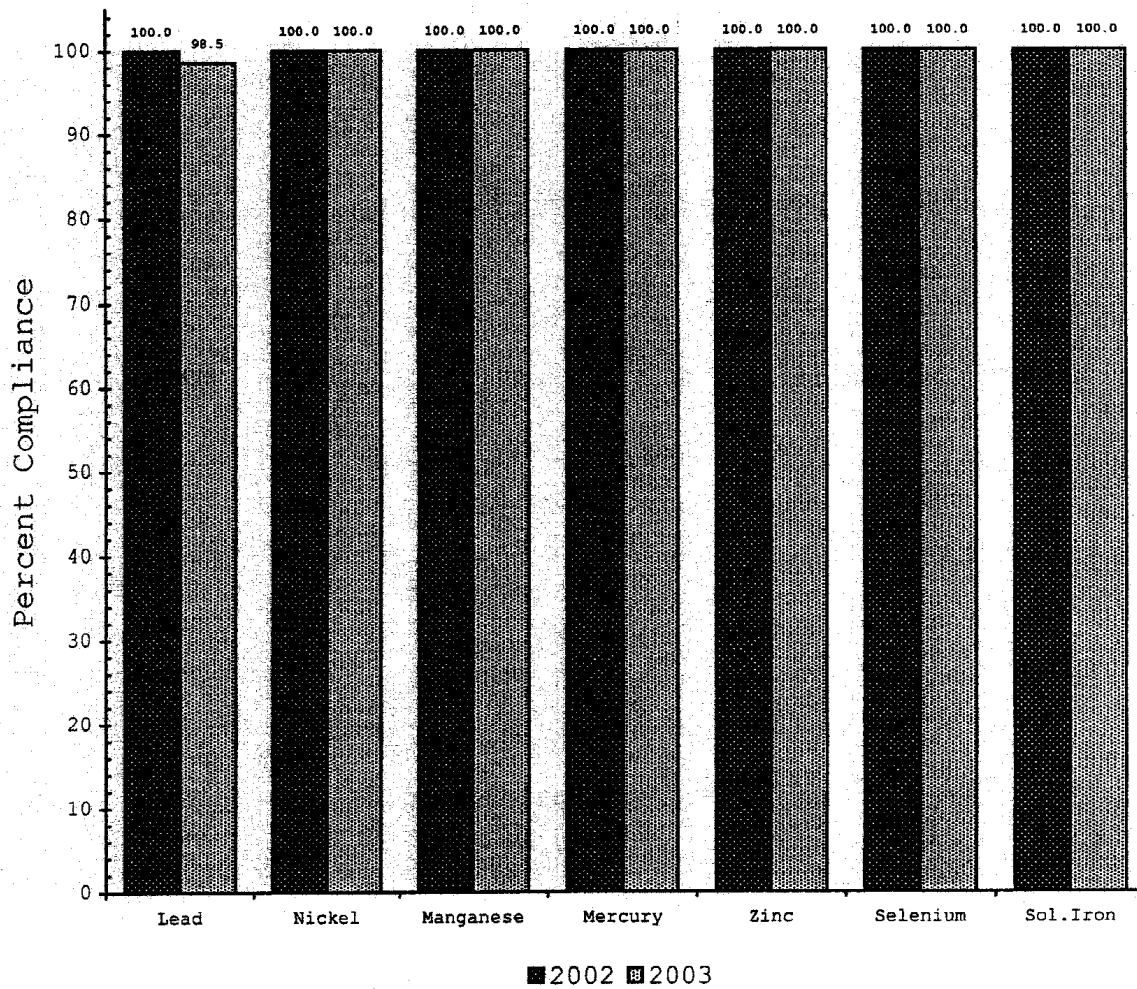


\*\*Secondary Contact standard became effective  
in December, 2002

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 5 (Continued)

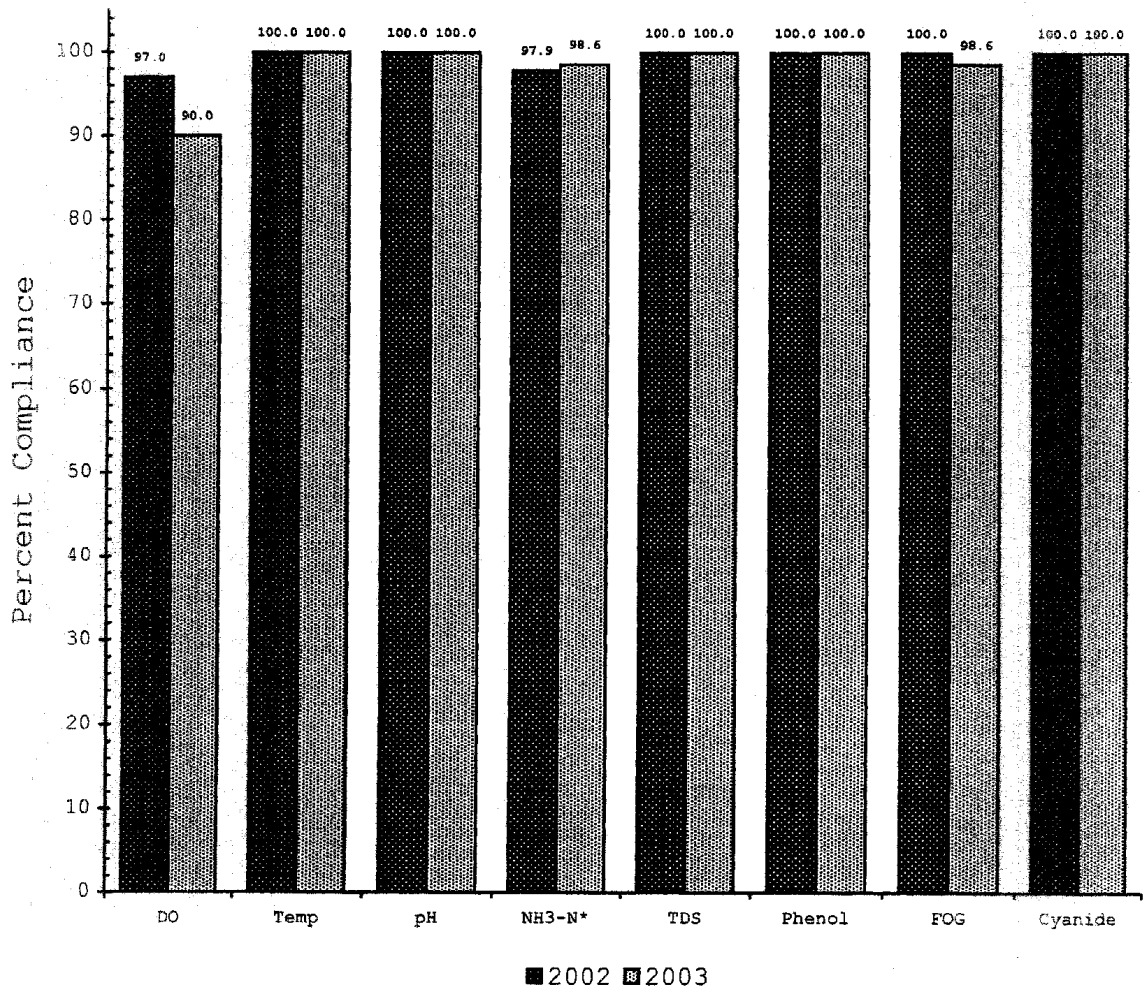
COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR SECONDARY CONTACT WATER SECTION OF  
THE CHICAGO RIVER IN 2002 AND 2003



METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 6

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR SECONDARY CONTACT WATER SECTION OF  
THE CALUMET RIVER IN 2002 AND 2003

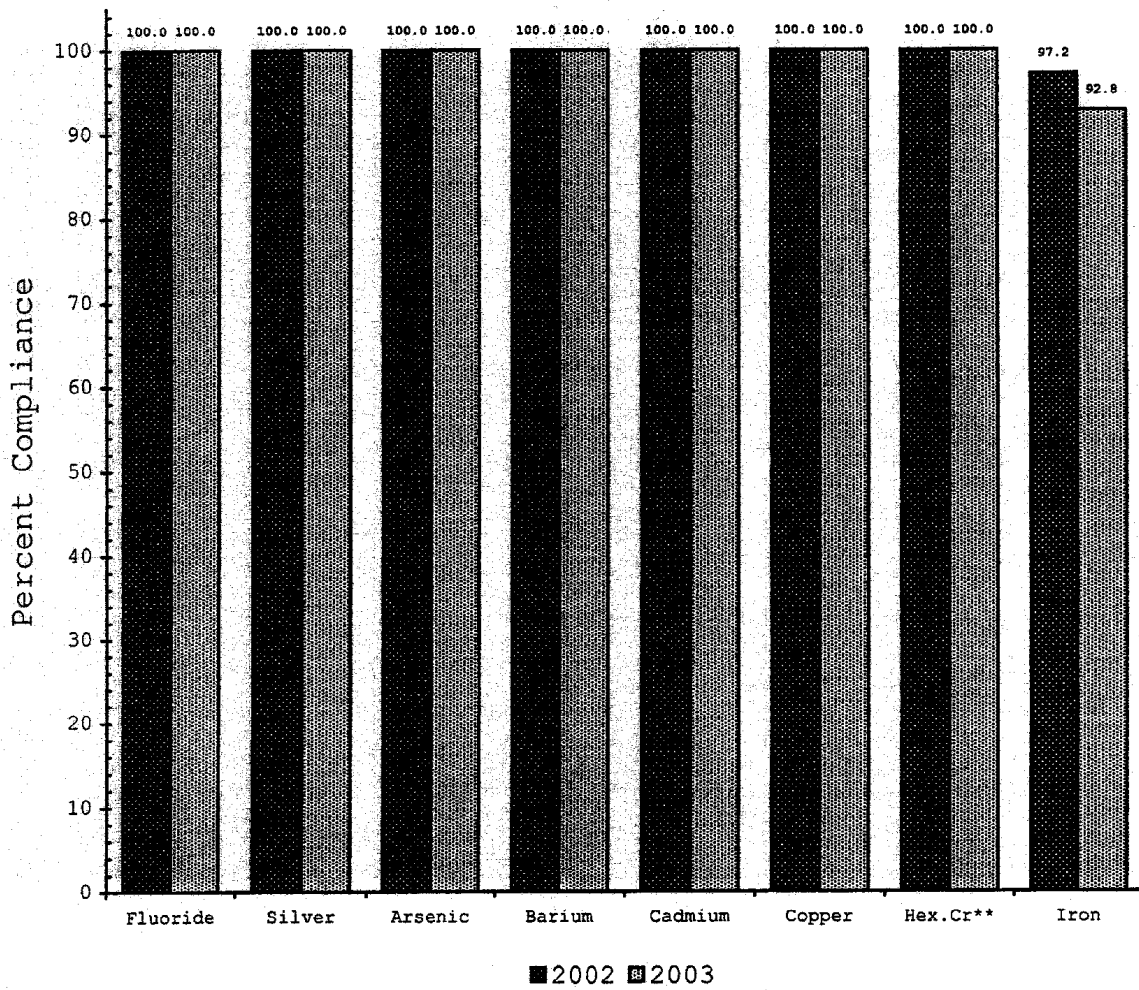


\*Un-ionized Ammonia

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 6 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR SECONDARY CONTACT WATER SECTION OF  
THE CALUMET RIVER IN 2002 AND 2003

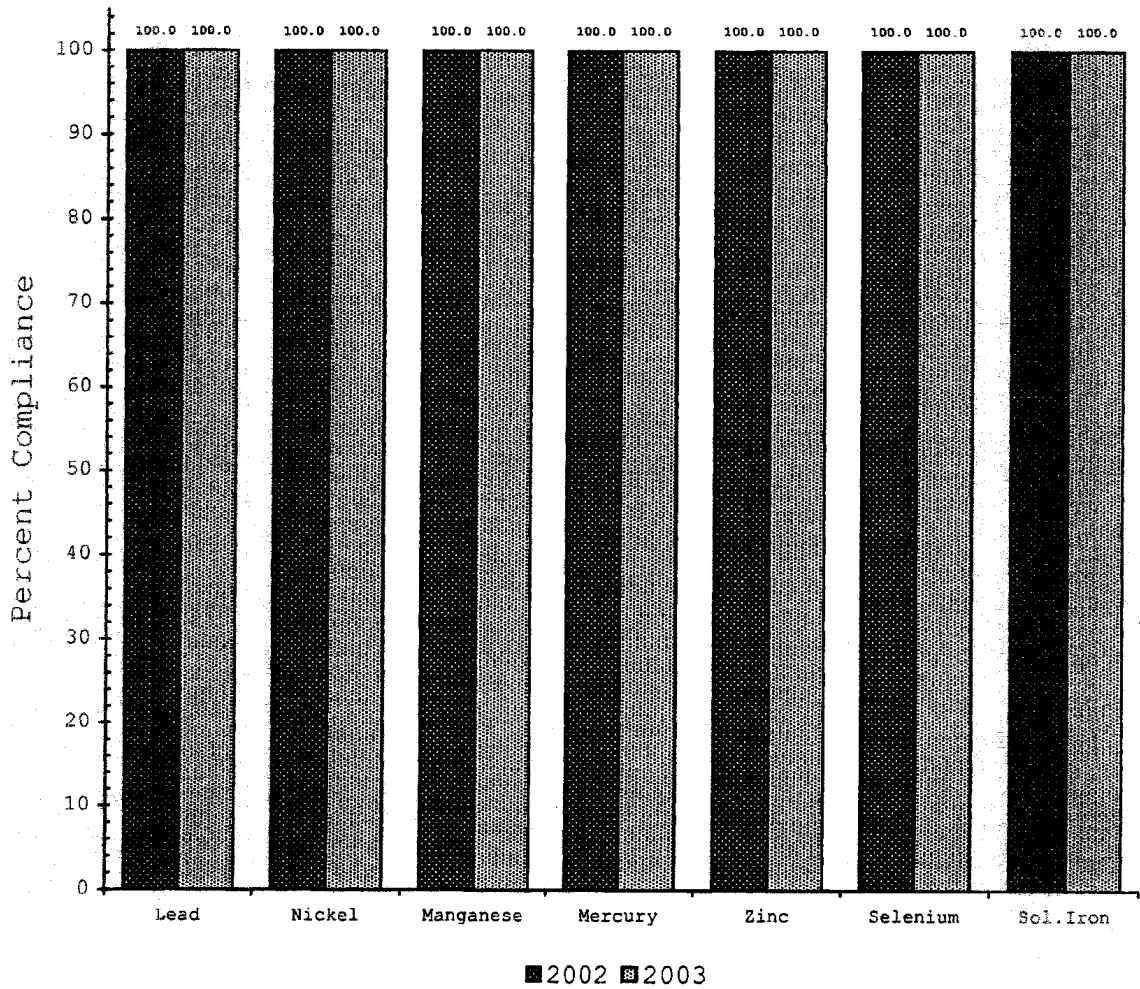


\*\*Secondary Contact standard became effective  
in December, 2002

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO

FIGURE 6 (Continued)

COMPLIANCE RATES OF WATER QUALITY STANDARDS  
FOR SECONDARY CONTACT WATER SECTION OF  
THE CALUMET RIVER IN 2002 AND 2003



RECEIVING WATER QUALITY STANDARDS COMPLIANCE UPSTREAM AND  
DOWNSTREAM OF DISTRICT OUTFALLS

Surface Water Sample Locations and Sample Frequencies

The District currently operates seven WRPs. The receiving waters upstream and downstream of the outfalls, the discharge points of the effluent from WRPs, for six of these WRPs were sampled during 2003. 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 into waters classified as Secondary Contact Water. During 2003, 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 7. Only 1 sample at location 63 upstream of the Hanover Park WRP were taken in 2003 because the water level was too low to obtain a representative sample further without being contaminated by sediments.

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. These streams fall within the General Use Waters classification with the respective sampling locations upstream and downstream as



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 7

ANNUAL SAMPLING FREQUENCIES AT  
UPSTREAM AND DOWNSTREAM LOCATIONS OF DISTRICT  
WATER RECLAMATION PLANTS IN 2003

WRP	Upstream Sample		Downstream Sample			
	Location	No <sup>1</sup> Freq.	Location	No <sup>1</sup> Freq.		
North Side	Central Street, North Shore Channel	35	9	Touhy Avenue, North Shore Channel	36	12
Stickney	Cicero Avenue, Chicago Sanitary & Ship Canal	75	12	Harlem Avenue, Chicago Sanitary & Ship Canal	41	12
Calumet	Indiana Avenue, Little Calumet River	56	11	Halsted Street, Little Calumet River	76	11
John E. Egan	Higgins Road, Salt Creek	79	9	Arlington Heights Road, Salt Creek	80	12
James C. Kirie	Elmhurst Road, Higgins Creek	77	5	Wille Road, Higgins Creek	78	12
Hanover Park	Longmeadow Lane, West Branch DuPage River*	63	1	Walnut Lane, West Branch DuPage River	89	11

<sup>1</sup>Location 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.

shown in Table 7. More specifically, the General Use outfalls are located as follows:

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

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

1. The North Side WRP discharges its treated effluent into the North Shore Channel. The up-

stream 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 Stickney WRP are Cicero Avenue and Harlem Avenue, respectively, both on the Chicago Sanitary and Ship Canal. Cicero Avenue is 7,900 feet above the outfall and Harlem Avenue is 9,200 feet below.
3. The upstream sample point for the Calumet WRP is located at Indiana Avenue on the Little Calumet River. Downstream samples of the outfall are taken at Halsted Street on the Little Calumet River. Indiana Avenue is 5,500 feet above the outfall, and Halsted Street is 6,600 feet below.

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

Several statistical analyses were performed to evaluate the effect of the outfalls of each of the WRPs on the corresponding receiving streams. The sample values of each parameter at the upstream and downstream locations were first tested

to see if they exhibited a normal distribution and then tested for equality of variances. If the sample data of upstream and downstream locations came from a normally distributed population with equal variances, an exact t-test is used for testing the equality of upstream and downstream means. Otherwise, an approximate t-test is used if the data came from two different normally distributed populations. If the upstream and downstream data did not come from normally distributed populations, a Wilcoxon rank-sum test is used to test for the equality of upstream and downstream means.

The mean levels of each parameter measured at the upstream and downstream locations of each WRP, and the corresponding significance probability associated with the exact t-test/approximate t-test or Wilcoxon rank-sum test are tabulated in Tables 8 through 12. Tables AIII-1 through AIII-5 in Appendix AIII show in detail the significance probability due to a normality test and an equal variance test on the upstream and downstream data, and the significance probability for the equality of upstream and downstream means due to Wilcoxon rank-sum test and exact t-test/approximate t-test.

Sixty-eight water quality parameters including 42 parameters which have IPCB General Use, Human Health, or Secondary Contact limits, were assayed in all WRPs in 2003.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 8

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR NORTH SIDE WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Biochemical Oxygen Demand	BOD <sub>5</sub> (mg/L)	2.00		7.58	0.002
Carbonaceous Biochemical- Oxygen Demand	CBOD <sub>5</sub> (mg/L)	1.67		2.25	0.532
Dissolved Oxygen	DO (mg/L)	8.08		7.54	0.576
Temperature	Temp (°C)	17.9		17.0	0.767
pH	pH	7.31		7.25	0.733
Alkalinity (Total)	Alk (mg/L)	117		140	0.007
Chloride	Cl (mg/L)	47.2		143.5	0.076
Turbidity	Turb (NTU)	8.20		7.12	0.363
Total Kjeldahl Nitrogen	TKN (mg/L)	0.841		2.754	0.002
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.331		1.548	0.004
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.003		0.009	0.052
Organic Nitrogen	ORG-N (mg/L)	0.510		1.206	0.007
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	1.00		5.90	0.000
Total Solids	TS (mg/L)	292		491	0.004
Total Suspended Solids	TSS (mg/L)	9.89		9.42	0.864
Volatile Suspended Solids	VSS (mg/L)	2.56		4.33	0.209
Total Dissolved Solids	TDS (mg/L)	282		481	0.004
Phenols	Phenol (µg/L)	2.78		7.25	0.003
Sulfate	SO <sub>4</sub> (mg/L)	36.6		53.4	0.008
Total Phosphorus	T.P (mg/L)	0.213		1.377	0.000
Total Cyanide	CN (mg/L)	0.001		0.003	0.000
WAD Cyanide	WAD-CN (mg/L)	0.000		0.001	0.000
Fluoride	F (mg/L)	0.233		0.721	0.000
Total Organic Carbon	TOC (mg/L)	4.89		8.92	0.000

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 8 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
 AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
 FOR NORTH SIDE WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Fecal Coliform*	FC (cfu/100ml)	291		7588	0.002
Escherichia Coli*	EColi (cfu/100ml)	271		7271	0.142
Total Calcium	Ca (mg/L)	41.0		53.4	0.004
Total Magnesium	Mg (mg/L)	14.1		19.1	0.004
Hardness	Hard (mg/L)	160		212	0.004
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.43		3.54	0.758
Gross Beta Radioactivity	G.Beta (pCi/L)	4.82		7.70	0.002
Chlorophyll a	Chlrphl (µg/L)	8.10		1.21	0.301
Benzene	Bznz (µg/L)	0.000		0.000	-
Ethylbenzene	Ebnzn (µg/L)	0.000		0.000	-
Toluene	Toln (µg/L)	0.000		0.000	-
Xylene	Xyln (µg/L)	0.000		0.000	-
Total Silver	Ag (mg/L)	0.000		0.001	0.489
Total Barium	Ba (mg/L)	0.023		0.020	0.054
Total Boron	B (mg/L)	0.050		0.190	0.000
Total Cadmium	Cd (mg/L)	0.000		0.000	0.629
Total Copper	Cu (mg/L)	0.012		0.015	0.131
Total Chromium	Cr (mg/L)	0.000		0.000	0.944
Total Iron	Fe (mg/L)	0.256		0.171	0.064
Total Lead	Pb (mg/L)	0.003		0.004	0.725
Total Nickel	Ni (mg/L)	0.003		0.005	0.420
Total Manganese	Mn (mg/L)	0.020		0.016	0.478
Total Mercury	Hg (µg/L)	0.010		0.018	0.534
Total Zinc	Zn (mg/L)	0.025		0.045	0.057

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 8 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR NORTH SIDE WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Total Selenium	Se (mg/L)	0.003		0.007	0.252
Soluble Calcium	Sol.Ca (mg/L)	39.0		51.1	0.011
Soluble Magnesium	Sol.Mg (mg/L)	13.4		18.2	0.013
Soluble Silver	Sol.Ag (mg/L)	0.000		0.000	0.694
Soluble Arsenic	Sol.As (mg/L)	0.000		0.000	-
Soluble Barium	Sol.Ba (mg/L)	0.021		0.017	0.065
Soluble Boron	Sol.B (mg/L)	0.044		0.173	0.000
Soluble Copper	Sol.Cu (mg/L)	0.001		0.001	0.543
Soluble Chromium	Sol.Cr (mg/L)	0.001		0.001	0.233
Soluble Iron	Sol.Fe (mg/L)	0.021		0.026	0.539
Soluble Lead	Sol.Pb (mg/L)	0.001		0.002	0.052
Soluble Nickel	Sol.Ni (mg/L)	0.000		0.003	0.061
Soluble Manganese	Sol.Mn (mg/L)	0.010		0.010	0.829
Soluble Mercury	Sol.Hg (µg/L)	0.000		0.000	-
Soluble Zinc	Sol.Zn (mg/L)	0.006		0.029	0.000
Soluble Selenium	Sol.Se (mg/L)	0.003		0.005	0.406

\*Geometric Mean.

<sup>1</sup>Significance probability  $\leq 0.05$  indicates that up and down population means are not equal.

<sup>2</sup>Some tests may be based on Wilcoxon rank-sum statistic that apply to population medians only in absence of population symmetry. Please see appendix AIII-1 for details.

- = No test is done since standard deviation does not exist.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 9

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR STICKNEY WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Biochemical Oxygen Demand	BOD <sub>5</sub> (mg/L)	4.67		3.33	0.292
Carbonaceous Biochemical- Oxygen Demand	CBOD <sub>5</sub> (mg/L)	0.83		1.33	0.402
Dissolved Oxygen	DO (mg/L)	5.18		6.81	0.002
Temperature	Temp (°C)	20.8		17.5	0.299
pH	pH	7.27		7.23	0.755
Alkalinity (Total)	Alk (mg/L)	132		117	0.103
Chloride	Cl (mg/L)	150		149	0.986
Turbidity	Turb (NTU)	10.45		7.19	0.000
Total Kjeldahl Nitrogen	TKN (mg/L)	1.96		1.50	0.139
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.941		0.499	0.016
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.009		0.004	0.016
Organic Nitrogen	ORG-N (mg/L)	1.02		1.01	0.944
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	4.49		7.84	0.004
Total Solids	TS (mg/L)	502		531	0.741
Total Suspended Solids	TSS (mg/L)	13.92		8.08	0.000
Volatile Suspended Solids	VSS (mg/L)	3.67		2.50	0.060
Total Dissolved Solids	TDS (mg/L)	488		523	0.694
Phenols	Phenol (µg/L)	5.00		5.58	0.583
Sulfate	SO <sub>4</sub> (mg/L)	52.5		72.9	0.000
Fats, Oils, and Greases	FOG (mg/L)	2.89		2.72	0.884
Total Phosphorus	T.P (mg/L)	0.867		1.100	0.273
Total Cyanide	CN (mg/L)	0.003		0.003	0.052
WAD Cyanide	WAD-CN (mg/L)	0.001		0.001	0.557
Fluoride	F (mg/L)	0.578		0.727	0.075



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 9 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR STICKNEY WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Total Organic Carbon	TOC (mg/L)	7.33		8.25	0.218
Fecal Coliform*	FC (cfu/100ml)	153		4314	0.000
Escherichia Coli*	EColi (cfu/100ml)	94		2488	0.027
Total Calcium	Ca (mg/L)	52.1		53.8	0.676
Total Magnesium	Mg (mg/L)	18.5		19.2	0.680
Hardness	Hard (mg/L)	206		213	0.675
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.67		3.49	0.673
Gross Beta Radioactivity	G.Beta (pCi/L)	8.13		8.38	0.801
Chlorophyll a	Chlrphl (µg/L)	6.28		2.67	0.056
Benzene	Bnzn (µg/L)	0.000		0.000	-
Ethylbenzene	Ebnzn (µg/L)	0.000		0.000	-
Toluene	Toln (µg/L)	0.000		0.000	-
Xylene	Xyln (µg/L)	0.000		0.000	-
Total Silver	Ag (mg/L)	0.001		0.001	0.580
Total Barium	Ba (mg/L)	0.024		0.019	0.001
Total Boron	B (mg/L)	0.145		0.192	0.006
Total Cadmium	Cd (mg/L)	0.000		0.000	0.541
Total Copper	Cu (mg/L)	0.015		0.013	0.161
Total Chromium	Cr (mg/L)	0.003		0.003	0.715
Total Hexavalent Chromium	Cr <sup>+6</sup> (µg/L)	0.250		0.667	0.328
Total Iron	Fe (mg/L)	0.493		0.261	0.000
Total Lead	Pb (mg/L)	0.009		0.006	0.019
Total Nickel	Ni (mg/L)	0.007		0.005	0.502
Total Manganese	Mn (mg/L)	0.032		0.017	0.000

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 9 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR STICKNEY WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Total Mercury	Hg (µg/L)	0.038		0.021	0.939
Total Zinc	Zn (mg/L)	0.041		0.038	0.618
Total Selenium	Se (mg/L)	0.004		0.004	0.914
Soluble Calcium	Sol.Ca (mg/L)	49.9		52.0	0.605
Soluble Magnesium	Sol.Mg (mg/L)	17.3		18.1	0.592
Soluble Silver	Sol.Ag (mg/L)	0.000		0.000	0.569
Soluble Arsenic	Sol.As (mg/L)	0.000		0.000	-
Soluble Barium	Sol.Ba (mg/L)	0.017		0.015	0.109
Soluble Boron	Sol.B (mg/L)	0.132		0.176	0.003
Soluble Copper	Sol.Cu (mg/L)	0.002		0.001	0.067
Soluble Chromium	Sol.Cr (mg/L)	0.001		0.003	0.024
Soluble Iron	Sol.Fe (mg/L)	0.020		0.029	0.222
Soluble Lead	Sol.Pb (mg/L)	0.002		0.002	0.732
Soluble Nickel	Sol.Ni (mg/L)	0.003		0.004	0.495
Soluble Manganese	Sol.Mn (mg/L)	0.020		0.013	0.019
Soluble Mercury	Sol.Hg (µg/L)	0.000		0.000	-
Soluble Zinc	Sol.Zn (mg/L)	0.019		0.023	0.423
Soluble Selenium	Sol.Se (mg/L)	0.004		0.003	0.541

\*Geometric Mean.

<sup>1</sup>Significance probability  $\leq 0.05$  indicates that up and down population means are not equal.

<sup>2</sup>Some tests may be based on Wilcoxon rank-sum statistic that apply to population medians only in absence of population symmetry. Please see appendix AIII-2 for details.

- = No test is done since standard deviation does not exist.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 10

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR CALUMET WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Biochemical Oxygen Demand	BOD <sub>5</sub> (mg/L)	2.36		2.64	0.751
Carbonaceous Biochemical- Oxygen Demand	CBOD <sub>5</sub> (mg/L)	1.36		1.00	0.624
Dissolved Oxygen	DO (mg/L)	8.40		7.00	0.046
Temperature	Temp (°C)	16.2		15.7	0.894
pH	pH	7.73		7.36	0.006
Alkalinity (Total)	Alk (mg/L)	127		146	0.049
Chloride	Cl (mg/L)	87.7		132.8	0.042
Turbidity	Turb (NTU)	16.79		8.36	0.000
Total Kjeldahl Nitrogen	TKN (mg/L)	1.02		1.16	0.536
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.317		0.268	0.611
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.004		0.002	0.031
Organic Nitrogen	ORG-N (mg/L)	0.691		0.888	0.243
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	1.78		4.57	0.002
Total Solids	TS (mg/L)	405		547	0.013
Total Suspended Solids	TSS (mg/L)	29.9		10.5	0.001
Volatile Suspended Solids	VSS (mg/L)	5.00		2.55	0.013
Total Dissolved Solids	TDS (mg/L)	375		536	0.005
Phenols	Phenol (µg/L)	2.55		7.18	0.010
Sulfate	SO <sub>4</sub> (mg/L)	74.3		100.7	0.020
Fats, Oils, and Greases	FOG (mg/L)	3.66		2.91	0.508
Total Phosphorus	T.P (mg/L)	0.504		2.126	0.001
Total Cyanide	CN (mg/L)	0.001		0.004	0.001
WAD Cyanide	WAD-CN (mg/L)	0.001		0.001	0.001
Fluoride	F (mg/L)	0.375		0.665	0.007

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 10 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR CALUMET WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v D	Sig Prob <sup>1,2</sup>
Total Organic Carbon	TOC (mg/L)	5.64	8.45	0.003
Fecal Coliform*	FC (cfu/100ml)	75	2990	0.000
Escherichia Coli*	EColi (cfu/100ml)	142	2787	0.057
Total Calcium	Ca (mg/L)	52.0	62.2	0.025
Total Magnesium	Mg (mg/L)	19.2	21.5	0.201
Hardness	Hard (mg/L)	209	244	0.059
Gross Alpha Radioactivity	G.Alpha (pCi/L)	3.76	3.99	0.373
Gross Beta Radioactivity	G.Beta (pCi/L)	7.47	9.54	0.128
Chlorophyll a	Chlrphl (µg/L)	24.4	10.3	0.002
Benzene	Bnzn (µg/L)	0.000	0.000	-
Ethylbenzene	Ebnzn (µg/L)	0.000	0.000	-
Toluene	Toln (µg/L)	0.000	0.000	-
Xylene	Xyln (µg/L)	0.000	0.000	-
Total Silver	Ag (mg/L)	0.001	0.001	0.914
Total Barium	Ba (mg/L)	0.030	0.020	0.000
Total Boron	B (mg/L)	0.128	0.187	0.006
Total Cadmium	Cd (mg/L)	0.000	0.000	0.315
Total Copper	Cu (mg/L)	0.013	0.010	0.331
Total Chromium	Cr (mg/L)	0.002	0.001	0.921
Total Iron	Fe (mg/L)	0.790	0.329	0.003
Total Lead	Pb (mg/L)	0.007	0.006	0.236
Total Nickel	Ni (mg/L)	0.003	0.004	0.110
Total Manganese	Mn (mg/L)	0.039	0.041	0.806
Total Mercury	Hg (µg/L)	0.027	0.007	0.474

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 10 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR CALUMET WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Total Zinc	Zn (mg/L)	0.034		0.050	0.076
Total Selenium	Se (mg/L)	0.003		0.007	0.342
Soluble Calcium	Sol.Ca (mg/L)	47.4		59.3	0.014
Soluble Magnesium	Sol.Mg (mg/L)	17.4		20.1	0.151
Soluble Silver	Sol.Ag (mg/L)	0.000		0.001	0.421
Soluble Arsenic	Sol.As (mg/L)	0.000		0.000	-
Soluble Barium	Sol.Ba (mg/L)	0.023		0.016	0.031
Soluble Boron	Sol.B (mg/L)	0.113		0.177	0.002
Soluble Copper	Sol.Cu (mg/L)	0.001		0.000	0.138
Soluble Chromium	Sol.Cr (mg/L)	0.001		0.002	0.163
Soluble Iron	Sol.Fe (mg/L)	0.013		0.037	0.018
Soluble Lead	Sol.Pb (mg/L)	0.001		0.002	0.382
Soluble Nickel	Sol.Ni (mg/L)	0.001		0.002	0.137
Soluble Manganese	Sol.Mn (mg/L)	0.008		0.026	0.004
Soluble Mercury	Sol.Hg (µg/L)	0.000		0.000	-
Soluble Zinc	Sol.Zn (mg/L)	0.009		0.031	0.007
Soluble Selenium	Sol.Se (mg/L)	0.003		0.005	0.519

\*Geometric Mean.

<sup>1</sup>Significance probability  $\leq 0.05$  indicates that up and down population means are not equal.

<sup>2</sup>Some tests may be based on Wilcoxon rank-sum statistic that apply to population medians only in absence of population symmetry. Please see appendix AIII-3 for details.

- = No test is done since standard deviation does not exist.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 11

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
 AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
 FOR JOHN E. EGAN WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v D	Sig Prob <sup>1,2</sup>
Dissolved Oxygen	DO (mg/L)	7.37	7.79	0.714
Temperature	Temp (°C)	15.1	14.9	0.938
pH	pH	7.54	7.34	0.212
Alkalinity (Total)	Alk (mg/L)	127	133	0.657
Chloride	Cl (mg/L)	235	241	0.920
Turbidity	Turb (NTU)	30.27	8.10	0.006
Total Kjeldahl Nitrogen	TKN (mg/L)	1.47	1.84	0.211
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.214	0.465	0.164
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.002	0.004	0.345
Organic Nitrogen	ORG-N (mg/L)	1.25	1.37	0.424
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.448	6.217	0.001
Total Solids	TS (mg/L)	701	668	0.760
Total Suspended Solids	TSS (mg/L)	44.56	8.75	0.005
Volatile Suspended Solids	VSS (mg/L)	9.56	3.67	0.020
Total Dissolved Solids	TDS (mg/L)	656	659	0.977
Phenols	Phenol (µg/L)	7.89	5.00	0.098
Sulfate	SO <sub>4</sub> (mg/L)	72.8	77.7	0.634
Total Phosphorus	T.P (mg/L)	0.106	1.980	0.002
Total Cyanide	CN (mg/L)	0.002	0.003	0.209
WAD Cyanide	WAD-CN (mg/L)	0.001	0.001	0.010
Fluoride	F (mg/L)	0.191	0.547	0.001
Total Organic Carbon	TOC (mg/L)	9.56	9.92	0.565
Fecal Coliform*	FC (cfu/100ml)	568	678	0.857
Escherichia Coli*	EColi (cfu/100ml)	423	552	0.780

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 11 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR JOHN E. EGAN WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Total Calcium	Ca (mg/L)	58.1		60.9	0.740
Total Magnesium	Mg (mg/L)	23.2		23.4	0.961
Hardness	Hard (mg/L)	241		248	0.826
Gross Alpha Radioactivity	G.Alpha (pCi/L)	4.65		4.28	0.542
Gross Beta Radioactivity	G.Beta (pCi/L)	8.41		9.54	0.297
Chlorophyll a	Chlrphl (µg/L)	37.4		18.6	0.132
Benzene	Bznz (µg/L)	0.000		0.000	-
Ethylbenzene	Ebnzn (µg/L)	0.000		0.000	-
Toluene	Toln (µg/L)	0.000		0.000	-
Xylene	Xyln (µg/L)	0.000		0.000	-
Total Silver	Ag (mg/L)	0.001		0.001	0.859
Total Barium	Ba (mg/L)	0.045		0.031	0.019
Total Boron	B (mg/L)	0.073		0.191	0.000
Total Cadmium	Cd (mg/L)	0.000		0.000	0.796
Total Copper	Cu (mg/L)	0.014		0.017	0.492
Total Chromium	Cr (mg/L)	0.003		0.000	0.004
Total Hexavalent Chromium	Cr <sup>+6</sup> (µg/L)	0.667		0.500	0.721
Total Iron	Fe (mg/L)	1.666		0.345	0.003
Total Lead	Pb (mg/L)	0.006		0.004	0.411
Total Nickel	Ni (mg/L)	0.002		0.002	0.819
Total Manganese	Mn (mg/L)	0.096		0.052	0.009
Total Mercury	Hg (µg/L)	0.032		0.041	0.801
Total Zinc	Zn (mg/L)	0.029		0.036	0.286
Total Selenium	Se (mg/L)	0.001		0.003	0.223

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 11 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
 AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
 FOR JOHN E. EGAN WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Soluble Calcium	Sol.Ca (mg/L)	53.0		56.7	0.623
Soluble Magnesium	Sol.Mg (mg/L)	21.2		21.8	0.843
Soluble Silver	Sol.Ag (mg/L)	0.000		0.000	0.229
Soluble Arsenic	Sol.As (mg/L)	0.000		0.000	-
Soluble Barium	Sol.Ba (mg/L)	0.036		0.026	0.073
Soluble Boron	Sol.B (mg/L)	0.068		0.171	0.001
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	0.861
Soluble Copper	Sol.Cu (mg/L)	0.001		0.002	0.286
Soluble Chromium	Sol.Cr (mg/L)	0.001		0.001	0.803
Soluble Iron	Sol.Fe (mg/L)	0.095		0.055	0.411
Soluble Lead	Sol.Pb (mg/L)	0.001		0.002	0.267
Soluble Manganese	Sol.Mn (mg/L)	0.023		0.020	0.681
Soluble Mercury	Sol.Hg (µg/L)	0.000		0.000	-
Soluble Zinc	Sol.Zn (mg/L)	0.003		0.018	0.003
Soluble Selenium	Sol.Se (mg/L)	0.001		0.002	0.414

\*Geometric Mean.

<sup>1</sup>Significance probability  $\leq 0.05$  indicates that up and down population means are not equal.

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

- = No test is done since standard deviation does not exist.



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 12

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR JAMES C. KIRIE WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Dissolved Oxygen	DO (mg/L)	7.48		8.16	0.351
Temperature	Temp (°C)	15.4		15.4	0.990
pH	pH	7.54		7.58	0.620
Alkalinity (Total)	Alk (mg/L)	102		159	0.003
Chloride	Cl (mg/L)	424		213	0.395
Turbidity	Turb (NTU)	22.98		7.12	0.014
Total Kjeldahl Nitrogen	TKN (mg/L)	1.40		1.49	0.744
Ammonium Nitrogen	NH <sub>4</sub> -N (mg/L)	0.240		0.331	0.321
Un-ionized Ammonia	NH <sub>3</sub> -N (mg/L)	0.003		0.005	0.382
Organic Nitrogen	ORG-N (mg/L)	1.16		1.16	0.982
Nitrite + Nitrate Nitrogen	NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.549		4.853	0.000
Total Solids	TS (mg/L)	908		672	0.536
Total Suspended Solids	TSS (mg/L)	34.80		5.92	0.039
Volatile Suspended Solids	VSS (mg/L)	7.00		2.50	0.003
Total Dissolved Solids	TDS (mg/L)	873		666	0.591
Phenols	Phenol (µg/L)	12.20		8.83	0.295
Sulfate	SO <sub>4</sub> (mg/L)	44.8		90.4	0.000
Total Phosphorus	T.P (mg/L)	0.290		0.478	0.354
Total Cyanide	CN (mg/L)	0.003		0.004	0.658
WAD Cyanide	WAD-CN (mg/L)	0.001		0.001	0.216
Fluoride	F (mg/L)	0.222		0.858	0.000
Total Organic Carbon	TOC (mg/L)	10.4		10.3	0.910
Fecal Coliform*	FC (cfu/100ml)	7317		559	0.002
Escherichia Coli*	EColi (cfu/100ml)	5717		539	0.001

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 12 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR JAMES C. KIRIE WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Total Calcium	Ca (mg/L)	48.3		63.4	0.087
Total Magnesium	Mg (mg/L)	15.6		22.8	0.031
Hardness	Hard (mg/L)	185		252	0.057
Gross Alpha Radioactivity	G.Alpha (pCi/L)	4.54		3.98	0.612
Gross Beta Radioactivity	G.Beta (pCi/L)	9.76		13.15	0.213
Chlorophyll a	Chlrphl (µg/L)	11.44		4.27	0.004
Benzene	Bnzn (µg/L)	0.000		0.000	-
Ethylbenzene	Ebnzn (µg/L)	0.000		0.000	-
Toluene	Toln (µg/L)	0.000		0.000	-
Xylene	Xyln (µg/L)	0.000		0.000	-
Total Silver	Ag (mg/L)	0.000		0.000	0.874
Total Barium	Ba (mg/L)	0.050		0.022	0.022
Total Boron	B (mg/L)	0.063		0.282	0.000
Total Cadmium	Cd (mg/L)	0.000		0.000	0.580
Total Copper	Cu (mg/L)	0.018		0.014	0.125
Total Chromium	Cr (mg/L)	0.003		0.002	0.332
Total Hexavalent Chromium	Cr <sup>+6</sup> (µg/L)	0.200		0.750	0.723
Total Iron	Fe (mg/L)	1.454		0.227	0.014
Total Lead	Pb (mg/L)	0.008		0.004	0.029
Total Nickel	Ni (mg/L)	0.002		0.005	0.142
Total Manganese	Mn (mg/L)	0.115		0.033	0.027
Total Mercury	Hg (µg/L)	0.048		0.038	0.601
Total Zinc	Zn (mg/L)	0.050		0.066	0.346
Total Selenium	Se (mg/L)	0.005		0.006	0.890

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 12 (Continued)

COMPARISON OF LEVELS OF WATER QUALITY PARAMETERS  
AT UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS  
FOR JAMES C. KIRIE WATER RECLAMATION PLANT IN 2003

Parameters	Abbreviation (Units)	U	v s	D	Sig Prob <sup>1,2</sup>
Soluble Calcium	Sol.Ca (mg/L)	46.3		61.2	0.110
Soluble Magnesium	Sol.Mg (mg/L)	14.3		21.7	0.029
Soluble Silver	Sol.Ag (mg/L)	0.000		0.000	0.422
Soluble Arsenic	Sol.As (mg/L)	0.000		0.000	-
Soluble Barium	Sol.Ba (mg/L)	0.040		0.018	0.074
Soluble Boron	Sol.B (mg/L)	0.055		0.256	0.000
Soluble Cadmium	Sol.Cd (mg/L)	0.000		0.000	0.812
Soluble Copper	Sol.Cu (mg/L)	0.003		0.002	0.337
Soluble Chromium	Sol.Cr (mg/L)	0.001		0.002	0.760
Soluble Iron	Sol.Fe (mg/L)	0.086		0.044	0.198
Soluble Lead	Sol.Pb (mg/L)	0.003		0.002	0.775
Soluble Nickel	Sol.Ni (mg/L)	0.001		0.004	0.052
Soluble Manganese	Sol.Mn (mg/L)	0.074		0.019	0.175
Soluble Mercury	Sol.Hg (µg/L)	0.000		0.000	-
Soluble Zinc	Sol.Zn (mg/L)	0.016		0.049	0.096
Soluble Selenium	Sol.Se (mg/L)	0.003		0.004	0.574

\*Geometric Mean.

<sup>1</sup>Significance probability  $\leq 0.05$  indicates that up and down population means are not equal.

<sup>2</sup>Some tests may be based on Wilcoxon rank-sum statistic that apply to population medians only in absence of population symmetry. Please see appendix AIII-5 for details.

- = No test is done since standard deviation does not exist.

Comparison of the mean concentrations of the common parameters (maximum of 68) at upstream and downstream locations show that the downstream mean concentrations are significantly different from the upstream mean concentration for some parameters, and about the same for the other parameters. This is indicated by the value of significance probability given in Tables 8 through 12. A value of 0.05 or smaller indicates that the two means are significantly different, and a value greater than 0.05 indicates no difference between means.

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

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

by compliance with the water quality standard pertinent to that parameter.

A study of the concentrations of various water quality parameters presented in Tables 8 through 12, and the Appendix II tables reveal that the quality of effluents from the District's WRPs is high in most cases. This conclusion is based on the interpretation of the statistical inferences.

In general, statistically significant differences exist between upstream and downstream locations for those parameters that are affected by the wastewater treatment technology. For some of the parameters water quality standards exist, whereas for others there are no such standards. A discussion of the results from each WRP follows. Parameters, which are significantly different in the downstream location from the upstream location, and which have a water quality limit to comply with, are identified for each WRP.

#### NORTH SIDE WRP

Location 35 of the North Side WRP is classified as General Use Waters, and location 36 is classified as Secondary Contact Waters sections of the Chicago River System. Sixty-four water quality parameters are considered for comparison of mean concentrations between upstream and downstream locations.

The following 25 water quality parameters mean concentrations are significantly different between upstream and downstream locations:

- Biochemical oxygen demand, alkalinity (total), total Kjeldahl nitrogen, ammonium nitrogen, organic nitrogen, nitrite plus nitrate nitrogen, total solids, total dissolved solids, phenols, sulfate, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, total organic carbon, fecal coliform, total calcium, total magnesium, hardness, gross beta radioactivity, total boron, soluble calcium, soluble magnesium, soluble boron, and soluble zinc.

The downstream average concentrations of these 25 parameters were significantly higher than the upstream.

Among the 25 parameters listed above, 11 parameters have either IPCB General Use or Secondary Contact Water quality limits. These parameters are:

- ammonium nitrogen, total dissolved solids, phenols, sulfate, total cyanide, weak acid dissociable cyanide, fluoride, fecal coliform, gross

beta radioactivity, total boron, and soluble zinc.

At location 35, 9 parameters were in total compliance:

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

The percent compliance for fecal coliform was 66.7 percent. General Use waters do not have an IPCB cyanide water quality limit.

At location 36, 4 parameters have Secondary Contact Water quality limits. These parameters are:

- total dissolved solids, phenols, total cyanide, and fluoride.

All 4 parameters were in total compliance with IPCB standards.

#### STICKNEY WRP

Both locations of Stickney (75 and 41) are classified as Secondary Contact Waters sections of the Chicago River Systems. Seventeen water quality parameters had significantly different mean concentrations between the upstream and the downstream locations. These parameters were:

- Dissolved oxygen, turbidity, ammonium nitrogen, un-ionized ammonia, nitrite plus nitrate nitrogen, total suspended solids, sulfate, fecal coliform, escherichia coli, total barium, total boron, total iron, total lead, total manganese, soluble boron, soluble chromium, and soluble manganese.

The upstream averages of 9 parameters were significantly higher than the downstream averages. These parameters were:

- Turbidity, ammonium nitrogen, un-ionized ammonia, total suspended solids, total barium, total iron, total lead, total manganese, and soluble manganese.

The downstream averages of 8 parameters were significantly higher than the upstream averages. These parameters were:

- Dissolved oxygen, nitrite plus nitrate nitrogen, sulfate, fecal coliform, Escherichia coli, total boron, soluble boron, and soluble chromium.

Among the 17 parameters listed above, dissolved oxygen, un-ionized ammonia, total barium, total iron, total lead, and total manganese have Secondary Contact Water quality limits.



Dissolved oxygen had 75.0 percent compliance at the upstream location and total compliance at the downstream location. Un-ionized ammonia, total barium, total iron, total lead, and total manganese were in complete compliance at both locations.

#### CALUMET WRP

Locations 56 and 76 are classified as Secondary Contact Waters of Calumet River System. Thirty water quality parameters had significantly different mean concentrations between upstream and downstream locations. These parameters were:

- Dissolved oxygen, pH, alkalinity (total), chloride, turbidity, un-ionized ammonia, nitrite plus nitrate nitrogen, total solids, total suspended solids, volatile suspended solids, total dissolved solids, phenols, sulfate, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, total organic carbon, fecal coliform, total calcium, chlorophyll a, total barium, total boron, total iron, soluble calcium, soluble barium, soluble boron, soluble iron, soluble manganese, and soluble zinc.

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

- Dissolved oxygen, pH, turbidity, un-ionized ammonia, total suspended solids, volatile suspended solids, chlorophyll a, total barium, total iron, and soluble barium.

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

- alkalinity (total), chloride, nitrite plus nitrate nitrogen, total solids, total dissolved solids, phenols, sulfate, total phosphorus, total cyanide, weak acid dissociable cyanide, fluoride, total organic carbon, fecal coliform, total calcium, total boron, soluble calcium, soluble boron, soluble iron, soluble manganese, and soluble zinc.

Among the 30 parameters listed above, 10 parameters have Secondary Contact Water quality limits. These parameters were:

- Dissolved oxygen, pH, un-ionized ammonia, total dissolved solids, phenols, total cyanide, fluoride, total barium, total iron, and soluble iron.

All 10 parameters had complete compliance at both locations.

JOHN E. EGAN WRP

Both locations (79 and 80) of John E. Egan WRP are classified as General Use Waters of the Des Plaines River System. Fourteen water quality parameters had significantly different mean concentrations between the upstream and the downstream locations. These parameters were:

- Turbidity, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, total phosphorus, weak acid dissociable cyanide, fluoride, total barium, total boron, total chromium, total iron, total manganese, soluble boron, and soluble zinc.

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

- Turbidity, total suspended solids, volatile suspended solids, total barium, total chromium, total iron, and total manganese.

Seven parameters had significantly higher mean concentrations at the downstream location versus the upstream location. These parameters were:

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

Among the 14 parameters listed above which had significantly different mean concentrations between the upstream and the downstream locations, 6 parameters have applicable General Use Water quality limits. These parameters are:

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

All 6 parameters had complete compliance at both locations.

#### JAMES C. KIRIE WRP

Locations 77 and 78 of the James C. Kirie WRP are classified as General Use Waters of the Des Plaines River System.

Eighteen parameters had significantly different mean concentrations between the upstream and the downstream locations.

These parameters were:

- Alkalinity (total), turbidity, nitrite plus nitrate nitrogen, total suspended solids, volatile suspended solids, sulfate, fluoride, fecal coliform, Escherichia coli, total magnesium, chloro-

phyll a, total barium, total boron, total iron, total lead, total manganese, soluble manganese, and soluble boron.

Ten parameters had significantly higher mean concentrations at the upstream location than the downstream location.

These parameters were:

- Turbidity, total suspended solids, volatile suspended solids, fecal coliform, Escherichia coli, Chlorophyll a, total barium, total iron, total lead, and total manganese.

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

- Alkalinity (total), nitrite plus nitrate nitrogen, sulfate, fluoride, total magnesium, total boron, soluble magnesium, and soluble boron.

Among the 18 parameters listed above, 6 parameters have General Use Water quality limits. These parameters are:

- sulfate, fluoride, fecal coliform, total barium, total boron, and total manganese.

Fecal coliform had zero percent compliance, while the remaining 5 parameters had complete compliance at the upstream location. Fluoride had 91.7 percent compliance, fecal coliform

had 33.3 percent compliance, and the remaining 4 parameters had complete compliance at the downstream location.

#### HANOVER PARK WRP

Both locations (63 and 89) of the Hanover Park WRP are classified as General Use Waters of the Des Plaines River System. Only 1 sample was taken at location 63, the upstream location of Hanover Park WRP in 2003, because the water level at this location was too low for most of the year to obtain a representative water sample without it being contaminated by sediments. Therefore, no comparison of mean concentrations between upstream and downstream locations was made.

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APPENDIX I

WATERWAYS DATA MANAGEMENT SYSTEM DESCRIPTION

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-1

DIRECTORY OF WATER QUALITY PARAMETERS ASSAYED IN 2003

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
BOD <sub>5</sub>	Biochemical Oxygen Demand	mg/L	None	None
CBOD <sub>5</sub>	Carbonaceous Biochemical-Oxygen Demand	mg/L	None	None
DO	Dissolved Oxygen	mg/L	5.00	(3.00,4.00) <sup>1</sup>
Temp	Temperature	°C	16.0 (32.0 Apr-Nov)	37.8
pH	pH		6.50-9.00	6.00-9.00
Alk	Alkalinity (Total)	mg/L	None	None
Cl	Chloride	mg/L	500	None
Turb	Turbidity	NTU	None	None
TKN	Total Kjeldahl Nitrogen	mg/L	None	None
NH <sub>4</sub> -N	Ammonium Nitrogen	mg/L	Variable <sup>2</sup>	None
NH <sub>3</sub> -N	Un-ionized Ammonia	mg/L	None	0.100
ORG-N	Organic Nitrogen	mg/L	None	None
NO <sub>2</sub> +NO <sub>3</sub>	Nitrite Plus Nitrate Nitrogen	mg/L	None	None
TS	Total Solids	mg/L	None	None
TSS	Total Suspended Solids	mg/L	None	None
VSS	Volatile Suspended Solids	mg/L	None	None
TDS	Total Dissolved Solids	mg/L	1000	1500
Phenol	Phenols	µg/L	100	300
SO <sub>4</sub>	Sulfate	mg/L	500	None
FOG	Fats, Oils, and Greases	mg/L	None	15.0
T.P	Total Phosphorus	mg/L	None	None
CN	Total Cyanide	mg/L	None	0.100
WAD-CN	Weak Acid Dissociable Cyanide	mg/L	0.022	None
F	Fluoride	mg/L	1.40	15.00
TOC	Total Organic Carbon	mg/L	None	None
FC	Fecal Coliform	cfu/100ml	400	None
EColi	Escherichia Coli	cfu/100ml	None	None
Ca	Total Calcium	mg/L	None	None
Mg	Total Magnesium	mg/L	None	None
Hard	Hardness	mg/L	None	None
G.Alpha	Gross Alpha Radioactivity	pCi/L	None	None
G.Beta	Gross Beta Radioactivity	pCi/L	100	None

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-1 (Continued)

DIRECTORY OF WATER QUALITY PARAMETERS ASSAYED IN 2003

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
Chlrphl	Chlorophyll a	µg/L	None	None
Bnzn	Benzene**	µg/L	310	None
Bnzn	Benzene	µg/L	4200	None
Ebnzn	Ethylbenzene	µg/L	150	None
Toln	Toluene	µg/L	2000	None
Xyln	Xylene	µg/L	920	None
Ag	Total Silver	mg/L	0.005	1.100
As	Total Arsenic	mg/L	None	1.00
Ba	Total Barium	mg/L	5.00	5.00
B	Total Boron	mg/L	1.00	None
Cd	Total Cadmium	mg/L	None	0.150
Cu	Total Copper	mg/L	None	1.00
Cr	Total Chromium	mg/L	None	None
Cr <sup>+6</sup>	Total Hexavalent Chromium	µg/L	16.0	300.0
Fe	Total Iron	mg/L	None	2.00
Pb	Total Lead	mg/L	None	0.100
Ni	Total Nickel	mg/L	None	1.00
Mn	Total Manganese	mg/L	1.00	1.00
Hg	Total Mercury**	µg/L	0.012	None
Hg	Total Mercury	µg/L	None	0.500
Zn	Total Zinc	mg/L	None	1.00
Se	Total Selenium	mg/L	1.00	1.00
Sol.Ca	Soluble Calcium	mg/L	None	None
Sol.Mg	Soluble Magnesium	mg/L	None	None
Sol.Ag	Soluble Silver	mg/L	None	None
Sol.As	Soluble Arsenic	mg/L	0.360	None
Sol.Ba	Soluble Barium	mg/L	None	None
Sol.B	Soluble Boron	mg/L	None	None
Sol.Cd	Soluble Cadmium	mg/L	Variable <sup>3</sup>	None
Sol.Cu	Soluble Copper	mg/L	Variable <sup>4</sup>	None
Sol.Cr	Soluble Chromium	mg/L	Variable <sup>5</sup>	None
Sol.Fe	Soluble Iron	mg/L	1.000	0.500

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-1 (Continued)

DIRECTORY OF WATER QUALITY PARAMETERS ASSAYED IN 2003

Symbol	Parameter	Unit	Water Quality Standard*	
			General Use	Secondary Contact
Sol.Pb	Soluble Lead	mg/L	Variable <sup>6</sup>	None
Sol.Ni	Soluble Nickel	mg/L	Variable <sup>7</sup>	None
Sol.Mn	Soluble Manganese	mg/L	None	None
Sol.Hg	Soluble Mercury	µg/L	2.21	None
Sol.Zn	Soluble Zinc	mg/L	Variable <sup>8</sup>	None
Sol.Se	Soluble Selenium	mg/L	None	None

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

\*\*Applies as Human Health standard

<sup>1</sup>Standard is 3.00 for locations (43,58,59), and 4.00 for other Secondary Contact locations

<sup>2</sup> $\text{Min}(0.411/(1+10^{(7.204-\text{pH})})+58.4/(1+10^{(\text{pH}-7.204)}), 15)$

<sup>3</sup> $\text{Min}(\text{Exp}(-2.918+1.128*\ln(\text{Hard})) * (1.138672-0.041838*\ln(\text{Hard}))/1000, 0.05)$

<sup>4</sup> $\text{Exp}(-1.464+0.9422*\ln(\text{Hard})) * 0.960/1000$

<sup>5</sup> $\text{Exp}(3.688+0.819*\ln(\text{Hard})) * 0.316/1000$

<sup>6</sup> $\text{Exp}(-1.301+1.273*\ln(\text{Hard})) * (1.46203-0.145712*\ln(\text{Hard}))/1000$

<sup>7</sup> $\text{Exp}(0.5173+0.846*\ln(\text{Hard})) * 0.998/1000$

<sup>8</sup> $\text{Exp}(0.9035+0.8473*\ln(\text{Hard})) * 0.978/1000$

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-2

DIRECTORY OF SAMPLING STATIONS IN WATER QUALITY NETWORK

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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-2 (Continued)

DIRECTORY OF SAMPLING STATIONS IN WATER QUALITY NETWORK

<u>Sampling Station</u>		Type	Water	River
No.	Name	Sample	Use	System
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	GEN	Chicago
45	Lawrence Avenue, North Branch Chicago River*	Grab	SEC	Chicago
46	Grand Avenue, North Branch Chicago River	Grab	SEC	Chicago
47	Randolph Street, South Branch Chicago River*	Grab	SEC	Chicago
48	Stephen Street, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
49	Ewing Avenue, Calumet River	Grab	GEN	Calumet
50	Burnham Avenue, Wolf Lake	Grab	GEN	Calumet
51	IHB Rail Road Bridge, Grand Calumet River*	Grab	SEC	Calumet
52	Wentworth Avenue, Little Calumet River	Grab	GEN	Calumet
53	Wentworth Avenue, North Creek*	Grab	GEN	Calumet
54	Joe Orr Road, Thorn Creek	Grab	GEN	Calumet
55	130th Street, Calumet River	Grab	GEN	Calumet
56	Indiana Avenue, Little Calumet River	Grab	SEC	Calumet
57	Ashland Avenue, Little Calumet River	Grab	GEN	Calumet
58	Ashland Avenue, Calumet Sag Channel	Grab	SEC	Calumet
59	Cicero Avenue, Calumet Sag Channel	Grab	SEC	Calumet
60	Crawford Avenue, Calumet Sag Channel*	Grab	SEC	Calumet
61	Ashland Avenue, South Branch Chicago River*	Grab	SEC	Chicago
62	Stephen Street, Chicago Sanitary & Ship Canal*	Grab	SEC	Chicago
63	Longmeadow Lane, West Branch DuPage River	Grab	GEN	Des Plaines
64	Lake Street, West Branch DuPage River	Grab	GEN	Des Plaines
65	Oltendorf Road, Poplar Creek*	Grab	GEN	Des Plaines
66	Bartlett Road, Poplar Creek*	Grab	GEN	Des Plaines
67	171st Street, Union Drainage Ditch*	Grab	GEN	Calumet
68	Park Street, Union Drainage Ditch*	Grab	GEN	Calumet
69	Lincoln Highway, Deer Creek*	Grab	GEN	Calumet
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

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-2 (Continued)

DIRECTORY OF SAMPLING STATIONS IN WATER QUALITY NETWORK

<u>Sampling Station</u>		Type	Water	River
No.	Name	Sample	Use	System
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*	Grab	SEC	Chicago
82	Lockport Trebler, Chicago Sanitary & Ship Canal*	Grab	SEC	Chicago
83	Lockport Solenoid*	Grab	SEC	Chicago
84	Lockport 16th Street Bridge*	Grab	SEC	Chicago
85	Dempster Street, North Shore Channel*	Grab	SEC	Chicago
86	Burnham Avenue, Grand Calumet River	Grab	SEC	Calumet
89	Walnut Lane, West Branch DuPage River	Grab	GEN	Des Plaines
90	Route 19, Poplar Creek	Grab	GEN	Des Plaines
91	Material Service Road, Des Plaines River	Grab	GEN	Des Plaines
92	Lockport Forebay, Chicago Sanitary & Ship Canal	Grab	SEC	Chicago
93	Jefferson Street, Joliet, Des Plaines River <sup>1</sup>	Grab	SEC	Des Plaines
94	Empress Casino, Des Plaines River <sup>1</sup>	Grab	SEC	Des Plaines
95	I-55, Des Plaines River <sup>1</sup>	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

GEN: General Use; SEC: Secondary Contact; EFF: Effluent

\*Excluded in 2003 Sampling

<sup>1</sup>Kept for Special Studies Separately

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AI-3

DIRECTORY OF SAMPLING LOCATIONS IN 2002 AND 2003

Location No.	Location Sampled in 2002	Location Sampled in 2003
<u>Chicago River System</u>		
106	Dundee Road, West Fork North Branch Chicago River	Dundee Road, West Fork North Branch Chicago River
103	Golf Road, West Fork North Branch Chicago River	Golf Road, West Fork North Branch Chicago River
31	Lake-Cook Road, Middle Fork North Branch	Lake-Cook Road, Middle Fork North Branch
104	Glenview Road, North Branch Chicago River	Glenview Road, North Branch Chicago River
32	Lake-Cook Road, Skokie River	Lake-Cook Road, Skokie River
105	Frontage Road, Skokie River	Frontage Road, Skokie River
34	Dempster Street, North Branch Chicago River	Dempster Street, North Branch Chicago River
96	Albany Avenue, North Branch Chicago River	Albany Avenue, North Branch Chicago River
35	Central Street, North Shore Channel	Central Street, North Shore Channel
102	Oakton Street, North Shore Channel	Oakton Street, North Shore Channel
36	Touhy Avenue, North Shore Channel	Touhy Avenue, North Shore Channel
101	Foster Avenue, North Shore Channel	Foster Avenue, North Shore Channel
37	Wilson Avenue, North Branch Chicago River	Wilson Avenue, North Branch Chicago River
73	Diversey Parkway, North Branch Chicago River	Diversey Parkway, North Branch Chicago River
46	Grand Avenue, North Branch Chicago River	Grand Avenue, North Branch Chicago River
74	Lake Shore Drive, Chicago River	Lake Shore Drive, Chicago River
100	Wells Street, Chicago River	Wells Street, Chicago River
39	Madison Street, South Branch Chicago River	Madison Street, South Branch Chicago River
108	Loomis Street, South Branch Chicago River	Loomis Street, South Branch Chicago River
99	Archer Avenue, South Fork South Branch Chicago R	Archer Avenue, South Fork South Branch Chicago River
40	<b>Not Sampled</b>	<b>Not Sampled</b>
107	Western Avenue, Chicago Sanitary & Ship Canal	Western Avenue, Chicago Sanitary & Ship Canal
75	Cicero Avenue, Chicago Sanitary & Ship Canal	Cicero Avenue, Chicago Sanitary & Ship Canal
41	Harlem Avenue, Chicago Sanitary & Ship Canal	Harlem Avenue, Chicago Sanitary & Ship Canal
42	Route 83, Chicago Sanitary & Ship Canal	Route 83, Chicago Sanitary & Ship Canal
48	Stephen Street, Chicago Sanitary & Ship Canal	Stephen Street, Chicago Sanitary & Ship Canal
92	Lockport Forebay, Chicago Sanitary & Ship Canal	Lockport Forebay, Chicago Sanitary & Ship Canal
<u>Calumet River System</u>		
49	Ewing Avenue, Calumet River	Ewing Avenue, Calumet River
50	Burnham Avenue, Wolf Lake	Burnham Avenue, Wolf Lake
55	130th Street, Calumet River	130th Street, Calumet River
86	Burnham Avenue, Grand Calumet River	Burnham Avenue, Grand Calumet River
56	Indiana Avenue, Little Calumet River	Indiana Avenue, Little Calumet River
76	Halsted Street, Little Calumet River	Halsted Street, Little Calumet River
52	Wentworth Avenue, Little Calumet River	Wentworth Avenue, Little Calumet River
54	Joe Orr Road, Thorn Creek	Joe Orr Road, Thorn Creek
97	170th Street, Thorn Creek	170th Street, Thorn Creek
57	Ashland Avenue, Little Calumet River	Ashland Avenue, Little Calumet River
58	Ashland Avenue, Calumet Sag Channel	Ashland Avenue, Calumet Sag Channel
59	Cicero Avenue, Calumet Sag Channel	Cicero Avenue, Calumet Sag Channel
43	Route 83, Calumet Sag Channel	Route 83, Calumet Sag Channel
<u>Des Plaines River System</u>		
90	Route 19, Poplar Creek	Route 19, Poplar Creek
63	<b>Not Sampled</b>	<b>Not Sampled</b>
89	Walnut Lane, West Branch Du Page River	Walnut Lane, West Branch DuPage River
64	Lake Street, West Branch Du Page River	Lake Street, West Branch DuPage River
79	Higgins Road, Salt Creek	Higgins Road, Salt Creek
80	Arlington Heights Road, Salt Creek	Arlington Heights Road, Salt Creek
18	Devon Avenue, Salt Creek	Devon Avenue, Salt Creek
24	Wolf Road, Salt Creek	Wolf Road, Salt Creek
109	Brookfield Avenue, Salt Creek	Brookfield Avenue, Salt Creek
21	First Avenue, Salt Creek	<b>Not Sampled</b>
77	Elmhurst Road, Higgins Creek	Elmhurst Road, Higgins Creek
78	Wille Road, Higgins Creek	Wille Road, Higgins Creek
12	Lake-Cook Road, Buffalo Creek	Lake-Cook Road, Buffalo Creek
13	Lake-Cook Road, Des Plaines River	Lake-Cook Road, Des Plaines River
17	Oakton Street, Des Plaines River	Oakton Street, Des Plaines River
19	Belmont Avenue, Des Plaines River	Belmont Avenue, Des Plaines River
20	Roosevelt Road, Des Plaines River	Roosevelt Road, Des Plaines River
22	Ogden Avenue, Des Plaines River	Ogden Avenue, Des Plaines River
23	Willow Springs Road, Des Plaines River	Willow Springs Road, Des Plaines River
29	Stephen Street, Des Plaines River	Stephen Street, Des Plaines River
51	Material Service Road, Des Plaines River	Material Service Road, Des Plaines River



APPENDIX II

WATER QUALITY RESULTS

ANNUAL MEAN, STANDARD COMPLIANCE VIOLATION HISTORY, AND  
MEAN HISTORY

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>	BOD <sub>5</sub>	CBOD <sub>5</sub>	DO	Temp
No. Name	mg/L	mg/L	mg/L	°C
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	ND	ND	7.00	19.4
103 Golf Road, West Fork North Branch Chicago River	ND	ND	6.86	15.2
31 Lake-Cook Road, Middle Fork North Branch	ND	ND	6.22	16.7
104 Glenview Road, North Branch Chicago River	ND	ND	7.47	16.5
32 Lake-Cook Road, Skokie River	ND	ND	6.67	16.1
105 Frontage Road, Skokie River	ND	ND	7.95	15.1
34 Dempster Street, North Branch Chicago River	ND	ND	7.45	14.3
96 Albany Avenue, North Branch Chicago River	2.89	1.78	7.77	15.2
35 Central Street, North Shore Channel	2.00	1.67	8.08	17.9
102 Oakton Street, North Shore Channel	3.30	1.44	6.32	16.2
36 Touhy Avenue, North Shore Channel	7.58	2.25	7.54	17.0
101 Foster Avenue, North Shore Channel	5.42	1.75	7.42	17.9
37 Wilson Avenue, North Branch Chicago River	5.25	2.50	7.14	17.1
73 Diversey Parkway, North Branch Chicago River	3.25	1.17	6.25	16.0
46 Grand Avenue, North Branch Chicago River	2.67	0.92	6.12	14.5
74 Lake Shore Drive, Chicago River	2.70	2.80	7.62	15.4
100 Wells Street, Chicago River	3.25	1.67	7.54	14.1
39 Madison Street, South Branch Chicago River	3.91	2.00	5.73	12.7
108 Loomis Street, South Branch Chicago River	4.25	2.58	5.97	17.1
99 Archer Avenue, South Fork South Branch Chicago River	3.73	1.58	5.29	16.1
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.08	2.08	5.66	16.8
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.67	0.83	5.18	20.8
41 Harlem Avenue, Chicago Sanitary & Ship Canal	3.33	1.33	6.81	17.5
42 Route 83, Chicago Sanitary & Ship Canal	2.75	1.25	5.85	17.5
48 Stephen Street, Chicago Sanitary & Ship Canal	2.50	1.17	5.78	15.6
82 Lockport Trebier, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.65	0.52	5.57	17.9
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	0.92	1.33	9.73	12.4
50 Burnham Avenue, Wolf Lake	ND	ND	8.91	14.2
55 130th Street, Calumet River	1.90	1.40	8.27	14.4
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	3.94	15.6
56 Indiana Avenue, Little Calumet River	2.36	1.36	8.40	16.2
76 Halsted Street, Little Calumet River	2.64	1.00	7.00	15.7
52 Wentworth Avenue, Little Calumet River	ND	ND	6.53	16.2
54 Joe Orr Road, Thorn Creek	ND	ND	8.40	14.9
97 170th Street, Thorn Creek	ND	ND	7.80	15.3
57 Ashland Avenue, Little Calumet River	4.50	2.10	5.42	17.1
58 Ashland Avenue, Calumet Sag Channel	3.00	1.50	6.97	15.1
59 Cicero Avenue, Calumet Sag Channel	2.00	1.27	7.23	16.9
43 Route 83, Calumet Sag Channel	2.00	1.18	7.88	16.8
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	ND	ND	9.16	13.8
63 Longmeadow Lane, West Branch DuPage River	ND	ND	8.90	20.4
89 Walnut Lane, West Branch DuPage River	ND	ND	7.48	16.6
64 Lake Street, West Branch DuPage River	ND	ND	8.05	14.4
79 Higgins Road, Salt Creek	ND	ND	7.37	15.1
80 Arlington Heights Road, Salt Creek	ND	ND	7.79	14.9
18 Devon Avenue, Salt Creek	ND	ND	7.59	16.0
24 Wolf Road, Salt Creek	ND	ND	8.64	12.9
109 Brookfield Avenue, Salt Creek	ND	ND	8.13	14.1
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	ND	ND	7.48	15.4
78 Wille Road, Higgins Creek	ND	ND	8.16	15.4
12 Lake-Cook Road, Buffalo Creek	ND	ND	8.11	13.7
13 Lake-Cook Road, Des Plaines River	ND	ND	8.30	12.4
17 Oakton Street, Des Plaines River	ND	ND	7.57	15.4
19 Belmont Avenue, Des Plaines River	ND	ND	7.64	13.6
20 Roosevelt Road, Des Plaines River	ND	ND	7.16	15.3
22 Ogden Avenue, Des Plaines River	ND	ND	12.06	6.0
23 Willow Springs Road, Des Plaines River	ND	ND	8.66	15.0
29 Stephen Street, Des Plaines River	ND	ND	9.95	13.8
91 Material Service Road, Des Plaines River	ND	ND	9.65	13.2

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u> No. Name	pH	Alk mg/L	Cl mg/L	Turb NTU
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	7.57	138	181	32.2
103 Golf Road, West Fork North Branch Chicago River	7.65	168	270	16.9
31 Lake-Cook Road, Middle Fork North Branch	7.59	194	217	13.1
104 Glenview Road, North Branch Chicago River	7.97	170	215	14.7
32 Lake-Cook Road, Skokie River	7.59	191	220	12.6
105 Frontage Road, Skokie River	7.65	160	177	12.0
34 Dempster Street, North Branch Chicago River	7.72	159	205	14.5
96 Albany Avenue, North Branch Chicago River	7.69	170	230	14.1
35 Central Street, North Shore Channel	7.31	117	47	8.2
102 Oakton Street, North Shore Channel	7.13	128	80	11.6
36 Touhy Avenue, North Shore Channel	7.25	140	143	7.1
101 Foster Avenue, North Shore Channel	7.13	137	123	8.0
37 Wilson Avenue, North Branch Chicago River	7.50	139	159	9.2
73 Diversey Parkway, North Branch Chicago River	7.26	139	168	9.5
46 Grand Avenue, North Branch Chicago River	7.41	145	174	10.2
74 Lake Shore Drive, Chicago River	7.33	116	73	5.5
100 Wells Street, Chicago River	7.30	130	108	7.0
39 Madison Street, South Branch Chicago River	7.25	140	136	9.8
108 Loomis Street, South Branch Chicago River	7.36	138	137	9.1
99 Archer Avenue, South Fork South Branch Chicago River	7.35	133	134	9.3
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.38	136	137	10.3
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.27	132	150	10.5
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.23	117	149	7.2
42 Route 83, Chicago Sanitary & Ship Canal	7.12	126	156	8.0
48 Stephen Street, Chicago Sanitary & Ship Canal	7.25	138	160	9.9
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.33	133	166	9.5
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	7.65	110	35	6.9
50 Burnham Avenue, Wolf Lake	8.18	104	42	5.3
55 130th Street, Calumet River	7.86	111	64	7.8
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	7.58	196	176	9.4
56 Indiana Avenue, Little Calumet River	7.73	127	88	16.8
76 Halsted Street, Little Calumet River	7.36	146	133	8.4
52 Wentworth Avenue, Little Calumet River	7.63	208	179	16.1
54 Joe Orr Road, Thorn Creek	7.37	158	94	29.4
97 170th Street, Thorn Creek	7.61	172	217	19.8
57 Ashland Avenue, Little Calumet River	7.39	182	193	20.1
58 Ashland Avenue, Calumet Sag Channel	7.47	155	155	14.5
59 Cicero Avenue, Calumet Sag Channel	7.54	151	150	14.3
43 Route 83, Calumet Sag Channel	7.66	150	142	20.7
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	7.58	185	201	17.1
63 Longmeadow Lane, West Branch DuPage River	7.40	118	154	22.6
89 Walnut Lane, West Branch DuPage River	7.37	135	205	10.2
64 Lake Street, West Branch DuPage River	7.47	129	186	19.0
79 Higgins Road, Salt Creek	7.54	127	235	30.3
80 Arlington Heights Road, Salt Creek	7.34	133	241	8.1
18 Devon Avenue, Salt Creek	7.39	132	250	9.6
24 Wolf Road, Salt Creek	7.31	126	241	22.6
109 Brookfield Avenue, Salt Creek	7.44	125	208	27.8
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	7.54	102	424	23.0
78 Wille Road, Higgins Creek	7.58	159	213	7.1
12 Lake-Cook Road, Buffalo Creek	7.70	170	229	24.9
13 Lake-Cook Road, Des Plaines River	7.62	168	202	18.7
17 Oakton Steet, Des Plaines River	7.67	167	202	21.7
19 Belmont Avenue, Des Plaines River	7.68	155	255	20.8
20 Roosevelt Road, Des Plaines River	7.71	153	173	21.3
22 Ogden Avenue, Des Plaines River	7.46	155	261	24.2
23 Willow Springs Road, Des Plaines River	7.59	141	197	19.6
29 Stephen Street, Des Plaines River	7.67	149	210	20.9
91 Material Service Road, Des Plaines River	7.80	146	200	22.4

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

Sampling Station No. Name	TKN mg/L	Un-ionized		
		NH <sub>4</sub> -N mg/L	NH <sub>3</sub> -N mg/L	ORG-N mg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1.88	0.327	0.006	1.56
103 Golf Road, West Fork North Branch Chicago River	1.25	0.215	0.003	1.04
31 Lake-Cook Road, Middle Fork North Branch	1.24	0.178	0.003	1.06
104 Glenview Road, North Branch Chicago River	1.33	0.113	0.003	1.22
32 Lake-Cook Road, Skokie River	0.97	0.221	0.003	0.75
105 Frontage Road, Skokie River	1.16	0.102	0.001	1.05
34 Dempster Street, North Branch Chicago River	1.12	0.167	0.002	0.95
96 Albany Avenue, North Branch Chicago River	1.16	0.153	0.002	1.01
35 Central Street, North Shore Channel	0.84	0.331	0.003	0.51
102 Oakton Street, North Shore Channel	1.91	0.930	0.007	0.98
36 Touhy Avenue, North Shore Channel	2.75	1.548	0.009	1.21
101 Foster Avenue, North Shore Channel	3.02	1.828	0.007	1.19
37 Wilson Avenue, North Branch Chicago River	2.63	1.365	0.017	1.27
73 Diversey Parkway, North Branch Chicago River	2.39	1.197	0.008	1.20
46 Grand Avenue, North Branch Chicago River	2.16	1.216	0.010	0.94
74 Lake Shore Drive, Chicago River	0.73	0.348	0.002	0.38
100 Wells Street, Chicago River	1.59	0.798	0.004	0.79
39 Madison Street, South Branch Chicago River	2.35	1.270	0.006	1.08
108 Loomis Street, South Branch Chicago River	1.69	0.819	0.007	0.87
99 Archer Avenue, South Fork South Branch Chicago River	2.07	1.062	0.008	1.01
40 Damen Avenue, Chicago Sanitary & Ship Canal	1.97	0.969	0.007	1.00
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	1.96	0.941	0.008	1.02
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.50	0.499	0.003	1.01
42 Route 83, Chicago Sanitary & Ship Canal	1.62	0.643	0.003	0.98
48 Stephen Street, Chicago Sanitary & Ship Canal	1.57	0.598	0.003	0.98
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.58	0.588	0.006	0.99
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	0.23	0.124	0.002	0.12
50 Burnham Avenue, Wolf Lake	0.52	0.118	0.008	0.40
55 130th Street, Calumet River	0.58	0.249	0.006	0.33
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	3.85	1.735	0.048	2.12
56 Indiana Avenue, Little Calumet River	1.02	0.317	0.004	0.69
76 Halsted Street, Little Calumet River	1.16	0.268	0.002	0.89
52 Wentworth Avenue, Little Calumet River	1.58	0.319	0.005	1.26
54 Joe Orr Road, Thorn Creek	1.19	0.127	0.001	1.06
97 170th Street, Thorn Creek	1.28	0.248	0.003	1.03
57 Ashland Avenue, Little Calumet River	1.23	0.330	0.004	0.90
58 Ashland Avenue, Calumet Sag Channel	1.22	0.294	0.003	0.93
59 Cicero Avenue, Calumet Sag Channel	1.26	0.256	0.003	1.01
43 Route 83, Calumet Sag Channel	1.32	0.260	0.004	1.06
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	1.03	0.149	0.002	0.88
63 Longmeadow Lane, West Branch DuPage River	1.93	0.240	0.003	1.69
89 Walnut Lane, West Branch DuPage River	2.28	0.482	0.004	1.79
64 Lake Street, West Branch DuPage River	2.37	0.596	0.005	1.77
79 Higgins Road, Salt Creek	1.47	0.214	0.002	1.25
80 Arlington Heights Road, Salt Creek	1.84	0.465	0.004	1.37
18 Devon Avenue, Salt Creek	1.86	0.501	0.005	1.36
24 Wolf Road, Salt Creek	1.48	0.241	0.002	1.23
109 Brockfield Avenue, Salt Creek	1.48	0.211	0.002	1.27
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	1.40	0.240	0.003	1.16
78 Wille Road, Higgins Creek	1.49	0.331	0.005	1.16
12 Lake-Cook Road, Buffalo Creek	1.41	0.186	0.003	1.22
13 Lake-Cook Road, Des Plaines River	1.51	0.162	0.002	1.35
17 Oakton Street, Des Plaines River	1.54	0.150	0.003	1.39
19 Belmont Avenue, Des Plaines River	1.66	0.198	0.004	1.47
20 Roosevelt Road, Des Plaines River	1.65	0.166	0.004	1.48
22 Ogden Avenue, Des Plaines River	2.00	0.144	0.001	1.86
23 Willow Springs Road, Des Plaines River	1.26	0.162	0.003	1.10
29 Stephen Street, Des Plaines River	1.52	0.166	0.003	1.35
91 Material Service Road, Des Plaines River	1.62	0.161	0.003	1.45

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u> No. Name	NO <sub>2</sub> +NO <sub>3</sub> mg/L	TS mg/L	TSS mg/L	VSS mg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	5.27	645	50.7	13.33
103 Golf Road, West Fork North Branch Chicago River	2.97	790	25.6	5.63
31 Lake-Cook Road, Middle Fork North Branch	0.35	687	21.2	4.78
104 Glenview Road, North Branch Chicago River	3.81	733	30.3	7.33
32 Lake-Cook Road, Skokie River	1.07	682	18.7	4.56
105 Frontage Road, Skokie River	6.42	637	19.4	5.33
34 Dempster Street, North Branch Chicago River	5.10	880	20.9	4.91
96 Albany Avenue, North Branch Chicago River	4.24	651	20.3	5.10
35 Central Street, North Shore Channel	1.00	292	9.9	2.56
102 Oakton Street, North Shore Channel	2.25	359	19.7	4.10
36 Touhy Avenue, North Shore Channel	5.90	491	9.4	4.33
101 Foster Avenue, North Shore Channel	6.72	469	9.6	3.33
37 Wilson Avenue, North Branch Chicago River	6.50	561	12.3	3.83
73 Diversey Parkway, North Branch Chicago River	6.02	565	14.1	3.83
46 Grand Avenue, North Branch Chicago River	5.86	610	13.5	3.42
74 Lake Shore Drive, Chicago River	1.38	312	2.5	0.90
100 Wells Street, Chicago River	3.41	409	6.4	2.17
39 Madison Street, South Branch Chicago River	5.19	500	11.6	3.09
108 Loomis Street, South Branch Chicago River	4.40	495	12.5	2.92
99 Archer Avenue, South Fork South Branch Chicago River	4.52	484	11.8	3.83
40 Damen Avenue, Chicago Sanitary & Ship Canal	4.73	485	13.7	3.33
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	4.49	502	13.9	3.67
41 Harlem Avenue, Chicago Sanitary & Ship Canal	7.84	531	8.1	2.50
42 Route 83, Chicago Sanitary & Ship Canal	7.17	568	10.6	3.00
48 Stephen Street, Chicago Sanitary & Ship Canal	6.36	602	16.2	3.58
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	6.24	610	14.7	3.69
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	0.35	241	8.7	1.25
50 Burnham Avenue, Wolf Lake	0.09	245	5.8	2.83
55 130th Street, Calumet River	0.48	334	9.3	1.70
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	5.91	911	17.0	8.20
56 Indiana Avenue, Little Calumet River	1.78	405	29.9	5.00
76 Halsted Street, Little Calumet River	4.57	547	10.5	2.55
52 Wentworth Avenue, Little Calumet River	4.16	828	28.7	5.50
54 Joe Orr Road, Thorn Creek	7.67	979	42.0	6.67
97 170th Street, Thorn Creek	6.76	1308	30.2	5.60
57 Ashland Avenue, Little Calumet River	4.01	951	33.0	6.30
58 Ashland Avenue, Calumet Sag Channel	4.57	609	24.4	5.00
59 Cicero Avenue, Calumet Sag Channel	4.48	633	24.0	4.91
43 Route 83, Calumet Sag Channel	4.11	625	35.9	5.64
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	0.61	662	30.4	6.20
63 Longmeadow Lane, West Branch DuPage River	1.74	646	36.0	8.00
89 Walnut Lane, West Branch DuPage River	7.58	608	18.3	6.36
64 Lake Street, West Branch DuPage River	7.32	632	40.3	8.75
79 Higgins Road, Salt Creek	0.45	701	44.6	9.56
80 Arlington Heights Road, Salt Creek	6.22	668	8.8	3.67
18 Devon Avenue, Salt Creek	6.46	714	19.9	5.50
24 Wolf Road, Salt Creek	6.71	739	43.3	8.00
109 Brookfield Avenue, Salt Creek	5.42	707	56.1	9.80
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.55	908	34.8	7.00
78 Wille Road, Higgins Creek	4.85	672	5.9	2.50
12 Lake-Cook Road, Buffalo Creek	0.37	765	47.6	10.13
13 Lake-Cook Road, Des Plaines River	6.79	713	36.8	7.58
17 Oakton Steet, Des Plaines River	4.97	663	42.1	8.70
19 Belmont Avenue, Des Plaines River	4.56	749	41.8	7.75
20 Roosevelt Road, Des Plaines River	4.40	648	43.4	7.86
22 Ogden Avenue, Des Plaines River	5.91	712	52.6	11.00
23 Willow Springs Road, Des Plaines River	4.30	670	33.4	7.00
29 Stephen Street, Des Plaines River	5.03	667	41.6	8.82
91 Material Service Road, Des Plaines River	4.83	708	46.1	9.83

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>		TDS	Phenol	SO <sub>4</sub>	FOG
No.	Name	mg/L	µg/L	mg/L	mg/L
<u>Chicago River System</u>					
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	595	9.0	64.3	ND
103	Golf Road, West Fork North Branch Chicago River	764	5.6	76.4	ND
31	Lake-Cook Road, Middle Fork North Branch	666	9.4	76.4	ND
104	Glenview Road, North Branch Chicago River	703	4.3	67.8	ND
32	Lake-Cook Road, Skokie River	664	7.9	80.4	ND
105	Frontage Road, Skokie River	617	3.2	64.9	ND
34	Dempster Street, North Branch Chicago River	859	5.5	71.6	ND
96	Albany Avenue, North Branch Chicago River	630	6.4	74.0	ND
35	Central Street, North Shore Channel	282	2.8	36.6	ND
102	Oakton Street, North Shore Channel	339	6.5	43.0	3.69
36	Touhy Avenue, North Shore Channel	481	7.3	53.4	4.47
101	Foster Avenue, North Shore Channel	460	6.2	53.2	2.73
37	Wilson Avenue, North Branch Chicago River	548	6.5	57.3	3.38
73	Diversy Parkway, North Branch Chicago River	551	6.8	59.0	3.38
46	Grand Avenue, North Branch Chicago River	597	5.3	58.9	2.59
74	Lake Shore Drive, Chicago River	309	3.0	35.6	ND
100	Wells Street, Chicago River	403	3.8	44.3	ND
39	Madison Street, South Branch Chicago River	488	7.6	54.8	3.56
108	Loomis Street, South Branch Chicago River	482	5.5	53.2	2.87
99	Archer Avenue, South Fork South Branch Chicago River	473	5.8	55.1	2.96
40	Damen Avenue, Chicago Sanitary & Ship Canal	471	5.6	53.1	3.16
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	488	5.0	52.5	2.89
41	Harlem Avenue, Chicago Sanitary & Ship Canal	523	5.6	72.9	2.72
42	Route 83, Chicago Sanitary & Ship Canal	558	6.2	82.4	2.06
48	Stephen Street, Chicago Sanitary & Ship Canal	586	6.6	94.6	2.74
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	595	5.7	96.7	3.85
<u>Calumet River System</u>					
49	Ewing Avenue, Calumet River	232	1.6	29.2	ND
50	Burnham Avenue, Wolf Lake	239	3.2	35.2	ND
55	130th Street, Calumet River	325	1.1	54.2	ND
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	894	7.6	260.1	6.40
56	Indiana Avenue, Little Calumet River	375	2.5	74.3	3.66
76	Halsted Street, Little Calumet River	536	7.2	100.7	2.91
52	Wentworth Avenue, Little Calumet River	800	12.6	180.2	ND
54	Joe Orr Road, Thorn Creek	937	6.0	460.4	ND
97	170th Street, Thorn Creek	1277	6.2	498.3	ND
57	Ashland Avenue, Little Calumet River	918	7.5	293.1	ND
58	Ashland Avenue, Calumet Sag Channel	585	7.8	142.4	3.36
59	Cicero Avenue, Calumet Sag Channel	609	7.9	136.4	2.58
43	Route 83, Calumet Sag Channel	589	5.5	128.4	3.41
<u>Des Plaines River System</u>					
90	Route 19, Poplar Creek	631	6.5	46.9	ND
63	Longmeadow Lane, West Branch DuPage River	610	9.0	60.2	ND
89	Walnut Lane, West Branch DuPage River	590	8.8	68.1	ND
64	Lake Street, West Branch DuPage River	592	7.9	68.1	ND
79	Higgins Road, Salt Creek	656	7.9	72.8	ND
80	Arlington Heights Road, Salt Creek	659	5.0	77.7	ND
18	Devon Avenue, Salt Creek	694	6.3	76.4	ND
24	Wolf Road, Salt Creek	696	6.0	84.1	ND
109	Brookfield Avenue, Salt Creek	650	5.4	82.4	ND
21	First Avenue, Salt Creek	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	873	12.2	44.8	ND
78	Wille Road, Higgins Creek	666	8.8	90.4	ND
12	Lake-Cook Road, Buffalo Creek	717	7.9	92.9	ND
13	Lake-Cook Road, Des Plaines River	677	4.4	91.6	ND
17	Oakton Steet, Des Plaines River	620	5.0	88.4	ND
19	Belmont Avenue, Des Plaines River	708	5.8	85.4	ND
20	Roosevelt Road, Des Plaines River	605	6.0	85.7	ND
22	Ogden Avenue, Des Plaines River	660	7.6	89.1	ND
23	Willow Springs Road, Des Plaines River	637	4.5	92.2	ND
29	Stephen Street, Des Plaines River	625	5.3	95.6	ND
91	Material Service Road, Des Plaines River	662	5.5	97.5	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>	T.P	Tot-CN	WAD-CN	F
No. Name	mg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	1.620	0.002	0.001	0.450
103 Golf Road, West Fork North Branch Chicago River	0.614	0.002	0.001	0.394
31 Lake-Cook Road, Middle Fork North Branch	0.112	0.001	0.001	0.334
104 Glenview Road, North Branch Chicago River	1.033	0.002	0.001	0.460
32 Lake-Cook Road, Skokie River	0.331	0.002	0.001	0.364
105 Frontage Road, Skokie River	1.708	0.002	0.001	0.686
34 Dempster Street, North Branch Chicago River	1.269	0.003	0.001	0.581
96 Albany Avenue, North Branch Chicago River	1.002	0.002	0.001	0.528
35 Central Street, North Shore Channel	0.213	0.001	0.000	0.233
102 Oakton Street, North Shore Channel	0.548	0.002	0.001	0.376
36 Touhy Avenue, North Shore Channel	1.377	0.003	0.001	0.721
101 Foster Avenue, North Shore Channel	1.287	0.003	0.001	0.717
37 Wilson Avenue, North Branch Chicago River	1.143	0.003	0.001	0.678
73 Diversey Parkway, North Branch Chicago River	1.055	0.003	0.001	0.688
46 Grand Avenue, North Branch Chicago River	0.982	0.003	0.001	0.690
74 Lake Shore Drive, Chicago River	0.226	0.000	0.000	0.250
100 Wells Street, Chicago River	0.639	0.002	0.001	0.458
39 Madison Street, South Branch Chicago River	1.089	0.004	0.001	0.665
108 Loomis Street, South Branch Chicago River	0.775	0.003	0.001	0.596
99 Archer Avenue, South Fork South Branch Chicago River	0.857	0.003	0.001	0.577
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.884	0.003	0.001	0.592
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.867	0.003	0.001	0.578
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.100	0.003	0.001	0.727
42 Route 83, Chicago Sanitary & Ship Canal	0.836	0.004	0.001	0.825
48 Stephen Street, Chicago Sanitary & Ship Canal	1.082	0.003	0.001	0.800
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	1.138	0.003	0.001	0.769
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	0.032	0.001	0.001	0.150
50 Burnham Avenue, Wolf Lake	0.029	0.000	0.000	0.223
55 130th Street, Calumet River	0.035	0.001	0.000	0.312
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.607	0.005	0.001	0.812
56 Indiana Avenue, Little Calumet River	0.504	0.001	0.001	0.375
76 Halsted Street, Little Calumet River	2.126	0.003	0.001	0.665
52 Wentworth Avenue, Little Calumet River	0.561	0.005	0.001	2.838
54 Joe Orr Road, Thorn Creek	1.650	0.003	0.001	0.483
97 170th Street, Thorn Creek	2.101	0.002	0.001	0.634
57 Ashland Avenue, Little Calumet River	1.223	0.004	0.001	1.107
58 Ashland Avenue, Calumet Sag Channel	1.898	0.003	0.001	1.020
59 Cicero Avenue, Calumet Sag Channel	2.048	0.003	0.001	0.719
43 Route 83, Calumet Sag Channel	1.686	0.002	0.001	0.659
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	0.108	0.001	0.001	0.206
63 Longmeadow Lane, West Branch DuPage River	0.140	0.002	0.001	0.170
89 Walnut Lane, West Branch DuPage River	2.440	0.005	0.002	0.625
64 Lake Street, West Branch DuPage River	2.338	0.004	0.002	0.601
79 Higgins Road, Salt Creek	0.106	0.002	0.001	0.191
80 Arlington Heights Road, Salt Creek	1.980	0.003	0.001	0.547
18 Devon Avenue, Salt Creek	2.007	0.003	0.001	0.568
24 Wolf Road, Salt Creek	1.584	0.002	0.001	0.542
109 Brookfield Avenue, Salt Creek	1.328	0.002	0.001	0.474
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.290	0.003	0.001	0.222
78 Wille Road, Higgins Creek	0.478	0.004	0.001	0.858
12 Lake-Cook Road, Buffalo Creek	0.157	0.001	0.001	0.206
13 Lake-Cook Road, Des Plaines River	1.332	0.002	0.001	0.525
17 Oakton Steet, Des Plaines River	0.958	0.002	0.001	0.459
19 Belmont Avenue, Des Plaines River	0.852	0.003	0.001	0.541
20 Roosevelt Road, Des Plaines River	0.891	0.002	0.001	0.496
22 Ogden Avenue, Des Plaines River	1.272	0.003	0.001	0.592
23 Willow Springs Road, Des Plaines River	0.919	0.002	0.001	0.488
29 Stephen Street, Des Plaines River	1.077	0.002	0.001	0.536
91 Material Service Road, Des Plaines River	1.104	0.002	0.001	0.545

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>	TOC	FC*	EColi*	Ca
No. Name	mg/L	cfu/100ml	cfu/100ml	mg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	10.67	3740	5099	54.9
103 Golf Road, West Fork North Branch Chicago River	8.88	839	380	70.9
31 Lake-Cook Road, Middle Fork North Branch	11.00	773	319	64.1
104 Glenview Road, North Branch Chicago River	9.00	777	180	65.5
32 Lake-Cook Road, Skokie River	9.89	546	418	69.8
105 Frontage Road, Skokie River	7.75	225	134	59.9
34 Dempster Street, North Branch Chicago River	8.82	1333	1110	65.7
96 Albany Avenue, North Branch Chicago River	9.30	1498	934	64.6
35 Central Street, North Shore Channel	4.89	291	271	41.0
102 Oakton Street, North Shore Channel	7.44	1487	4035	50.4
36 Touhy Avenue, North Shore Channel	8.92	7588	7271	53.4
101 Foster Avenue, North Shore Channel	8.42	7917	8204	54.3
37 Wilson Avenue, North Branch Chicago River	8.67	5940	7083	56.4
73 Diversey Parkway, North Branch Chicago River	8.92	4228	4688	55.4
46 Grand Avenue, North Branch Chicago River	8.92	2402	2882	56.6
74 Lake Shore Drive, Chicago River	4.30	53	44	40.9
100 Wells Street, Chicago River	6.25	301	231	48.0
39 Madison Street, South Branch Chicago River	7.91	799	427	55.2
108 Loomis Street, South Branch Chicago River	8.00	181	70	52.8
99 Archer Avenue, South Fork South Branch Chicago River	7.83	294	251	52.5
40 Damen Avenue, Chicago Sanitary & Ship Canal	7.67	173	30	53.4
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	7.33	153	94	52.1
41 Harlem Avenue, Chicago Sanitary & Ship Canal	8.25	4314	2488	53.8
42 Route 83, Chicago Sanitary & Ship Canal	8.00	866	787	56.6
48 Stephen Street, Chicago Sanitary & Ship Canal	7.92	345	322	58.7
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	8.29	179	81	59.0
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	3.17	12	14	38.6
50 Burnham Avenue, Wolf Lake	6.17	37	58	35.3
55 130th Street, Calumet River	4.70	32	90	43.4
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	12.90	1695	6709	86.9
56 Indiana Avenue, Little Calumet River	5.64	75	142	52.0
76 Halsted Street, Little Calumet River	8.45	2990	2787	62.2
52 Wentworth Avenue, Little Calumet River	11.60	2247	1169	96.3
54 Jos Orr Road, Thorn Creek	9.67	2922	22000	64.1
97 170th Street, Thorn Creek	9.60	1347	2984	80.6
57 Ashland Avenue, Little Calumet River	9.60	2329	2705	84.3
58 Ashland Avenue, Calumet Sag Channel	8.50	2135	1264	66.2
59 Cicero Avenue, Calumet Sag Channel	8.64	1105	418	64.8
43 Route 83, Calumet Sag Channel	8.55	103	39	65.3
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	9.90	387	103	61.3
63 Longmeadow Lane, West Branch DuPage River	12.00	1400	ND	59.8
89 Walnut Lane, West Branch DuPage River	11.91	2181	2139	55.8
64 Lake Street, West Branch DuPage River	10.83	1731	1357	55.6
79 Higgins Road, Salt Creek	9.56	568	423	58.1
80 Arlington Heights Road, Salt Creek	9.92	678	552	60.9
18 Devon Avenue, Salt Creek	10.08	1668	2722	58.9
24 Wolf Road, Salt Creek	8.67	2012	7589	59.2
109 Brookfield Avenue, Salt Creek	8.70	3461	ND	58.5
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	10.40	7317	5717	48.3
78 Willie Road, Higgins Creek	10.25	559	539	63.4
12 Lake-Cook Road, Buffalo Creek	11.50	764	737	67.0
13 Lake-Cook Road, Des Plaines River	9.67	566	223	65.2
17 Oakton Street, Des Plaines River	9.40	1128	147	64.1
19 Belmont Avenue, Des Plaines River	9.50	1021	277	62.4
20 Roosevelt Road, Des Plaines River	9.00	1309	773	60.9
22 Ogden Avenue, Des Plaines River	9.20	1023	88	68.7
23 Willow Springs Road, Des Plaines River	9.10	1664	1220	61.7
29 Stephen Street, Des Plaines River	9.36	568	117	65.9
91 Material Service Road, Des Plaines River	8.92	564	363	65.6

ND = No Data  
\* Geometric Mean



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>	Mg	Hard	Alpha	Beta
No. Name	mg/L	mg/L	pCi/L	pCi/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	23.6	234	3.79	8.90
103 Golf Road, West Fork North Branch Chicago River	28.3	294	4.80	10.27
31 Lake-Cook Road, Middle Fork North Branch	29.2	280	4.53	7.37
104 Glenview Road, North Branch Chicago River	28.3	280	4.47	8.90
32 Lake-Cook Road, Skokie River	29.8	297	4.34	7.35
105 Frontage Road, Skokie River	25.3	254	3.87	9.93
34 Dempster Street, North Branch Chicago River	27.0	275	4.92	10.17
96 Albany Avenue, North Branch Chicago River	26.6	271	4.25	9.53
35 Central Street, North Shore Channel	14.1	160	3.43	4.82
102 Oakton Street, North Shore Channel	17.5	198	3.67	6.45
36 Touhy Avenue, North Shore Channel	19.1	212	3.54	7.70
101 Foster Avenue, North Shore Channel	19.4	215	ND	ND
37 Wilson Avenue, North Branch Chicago River	20.5	225	ND	ND
73 Diversey Parkway, North Branch Chicago River	20.0	221	ND	ND
46 Grand Avenue, North Branch Chicago River	20.4	226	ND	ND
74 Lake Shore Drive, Chicago River	13.7	159	3.14	4.80
100 Wells Street, Chicago River	16.7	189	3.41	6.36
39 Madison Street, South Branch Chicago River	19.9	219	ND	ND
108 Loomis Street, South Branch Chicago River	18.8	209	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	18.7	208	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	19.1	212	ND	ND
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	18.5	206	3.67	8.13
41 Harlem Avenue, Chicago Sanitary & Ship Canal	19.2	213	3.49	8.38
42 Route 83, Chicago Sanitary & Ship Canal	20.2	225	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	21.3	234	ND	ND
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	21.4	235	3.62	9.22
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	12.8	149	3.21	3.99
50 Burnham Avenue, Wolf Lake	13.2	143	3.12	4.81
55 130th Street, Calumet River	14.8	169	3.50	6.10
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	65.6	487	ND	ND
56 Indiana Avenue, Little Calumet River	19.2	209	3.76	7.47
76 Halsted Street, Little Calumet River	21.5	244	3.99	9.54
52 Wentworth Avenue, Little Calumet River	37.2	393	4.59	12.91
54 Joe Orr Road, Thorn Creek	26.5	269	4.00	10.77
97 170th Street, Thorn Creek	34.6	344	6.15	12.14
57 Ashland Avenue, Little Calumet River	35.0	355	4.73	10.93
58 Ashland Avenue, Calumet Sag Channel	24.2	265	ND	ND
59 Cicero Avenue, Calumet Sag Channel	23.7	260	ND	ND
43 Route 83, Calumet Sag Channel	24.1	262	ND	ND
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	27.5	266	3.92	6.76
63 Longmeadow Lane, West Branch DuPage River	22.3	241	3.57	5.41
89 Walnut Lane, West Branch DuPage River	20.2	222	3.78	10.50
64 Lake Street, West Branch DuPage River	20.3	222	3.68	10.56
79 Higgins Road, Salt Creek	23.2	241	4.65	8.41
80 Arlington Heights Road, Salt Creek	23.4	248	4.28	9.54
18 Devon Avenue, Salt Creek	22.7	241	4.28	10.54
24 Wolf Road, Salt Creek	23.3	244	4.32	10.43
109 Brookfield Avenue, Salt Creek	23.2	242	4.26	9.41
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	15.6	185	4.54	9.76
78 Wille Road, Higgins Creek	22.8	252	3.98	13.15
12 Lake-Cook Road, Buffalo Creek	30.3	292	4.73	8.44
13 Lake-Cook Road, Des Plaines River	28.7	281	4.04	10.71
17 Oakton Steet, Des Plaines River	27.9	275	4.08	10.61
19 Belmont Avenue, Des Plaines River	25.9	263	4.15	10.62
20 Roosevelt Road, Des Plaines River	25.5	257	4.15	10.23
22 Ogden Avenue, Des Plaines River	27.8	286	4.25	9.44
23 Willow Springs Road, Des Plaines River	25.9	260	4.19	9.32
29 Stephen Street, Des Plaines River	27.4	278	4.29	10.23
91 Material Service Road, Des Plaines River	27.5	277	4.19	10.75

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

Sampling Station No. Name	Chlrphl µg/L	Bnzn µg/L	Ebnzn µg/L	ToIn µg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	47.9	0.000	0.000	0.000
103 Golf Road, West Fork North Branch Chicago River	19.0	0.000	0.000	0.000
31 Lake-Cook Road, Middle Fork North Branch	11.1	0.000	0.000	0.000
104 Glenview Road, North Branch Chicago River	32.9	0.000	0.000	0.000
32 Lake-Cook Road, Skokie River	10.3	0.000	0.000	0.000
105 Frontage Road, Skokie River	21.5	0.000	0.000	0.000
34 Dempster Street, North Branch Chicago River	16.7	0.000	0.000	0.000
96 Albany Avenue, North Branch Chicago River	18.1	0.000	0.000	0.000
35 Central Street, North Shore Channel	8.1	0.000	0.000	0.000
102 Oakton Street, North Shore Channel	4.8	0.000	0.000	0.000
36 Touhy Avenue, North Shore Channel	1.2	0.000	0.000	0.000
101 Foster Avenue, North Shore Channel	4.3	0.000	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	4.9	0.000	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	4.7	0.000	0.000	0.500
46 Grand Avenue, North Branch Chicago River	5.7	0.000	0.000	0.500
74 Lake Shore Drive, Chicago River	3.2	0.000	0.000	0.000
100 Wells Street, Chicago River	3.7	0.000	0.000	0.000
39 Madison Street, South Branch Chicago River	5.2	0.000	0.000	0.000
108 Loomis Street, South Branch Chicago River	6.1	0.000	0.000	0.000
99 Archer Avenue, South Fork North Branch Chicago River	9.5	0.000	0.000	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	6.8	0.000	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	6.3	0.000	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	2.7	0.000	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	4.4	0.000	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	7.2	0.000	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	7.2	0.000	0.000	0.000
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	1.6	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	8.7	0.000	0.000	0.000
55 130th Street, Calumet River	7.1	0.000	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	38.1	0.000	0.000	0.000
56 Indiana Avenue, Little Calumet River	24.4	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	10.3	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	9.0	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	8.5	ND	ND	ND
97 170th Street, Thorn Creek	11.4	0.000	0.000	0.000
57 Ashland Avenue, Little Calumet River	9.9	0.000	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	15.3	0.000	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	20.3	0.000	0.000	0.000
43 Route 83, Calumet Sag Channel	24.5	0.000	0.000	0.000
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	14.6	0.000	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	25.4	0.000	0.000	0.000
89 Walnut Lane, West Branch DuPage River	9.0	0.000	0.000	0.000
64 Lake Street, West Branch DuPage River	29.5	0.000	0.000	0.000
79 Higgins Road, Salt Creek	37.4	0.000	0.000	0.000
80 Arlington Heights Road, Salt Creek	18.6	0.000	0.000	0.000
18 Devon Avenue, Salt Creek	19.5	0.000	0.000	0.000
24 Wolf Road, Salt Creek	12.9	0.000	0.000	0.000
109 Brookfield Avenue, Salt Creek	17.9	ND	ND	ND
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	11.4	0.000	0.000	0.000
78 Willie Road, Higgins Creek	4.3	0.000	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	30.2	0.000	0.000	0.000
13 Lake-Cook Road, Des Plaines River	34.1	0.000	0.000	0.000
17 Oakton Street, Des Plaines River	42.2	0.000	0.000	0.000
19 Belmont Avenue, Des Plaines River	35.3	0.000	0.000	0.000
20 Roosevelt Road, Des Plaines River	28.7	0.000	0.000	0.000
22 Ogden Avenue, Des Plaines River	45.5	0.000	0.000	0.000
23 Willow Springs Road, Des Plaines River	33.0	0.000	0.000	0.000
29 Stephen Street, Des Plaines River	49.1	0.000	0.000	0.000
91 Material Service Road, Des Plaines River	56.2	0.000	0.000	0.000

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>		Xyln	Ag	As	Ba
No.	Name	µg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>					
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0.000	0.001	0.000	0.048
103	Golf Road, West Fork North Branch Chicago River	0.000	0.001	0.000	0.051
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	0.045
104	Glenview Road, North Branch Chicago River	0.000	0.001	0.000	0.038
32	Lake-Cook Road, Skokie River	0.000	0.001	0.001	0.045
105	Frontage Road, Skokie River	0.000	0.000	0.000	0.029
34	Dempster Street, North Branch Chicago River	0.000	0.000	0.000	0.039
96	Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	0.039
35	Central Street, North Shore Channel	0.000	0.000	0.001	0.024
102	Oakton Street, North Shore Channel	0.000	0.000	0.000	0.026
36	Touhy Avenue, North Shore Channel	0.000	0.001	0.000	0.020
101	Foster Avenue, North Shore Channel	0.000	0.000	0.000	0.021
37	Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	0.024
73	Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	0.027
46	Grand Avenue, North Branch Chicago River	0.000	0.002	0.001	0.024
74	Lake Shore Drive, Chicago River	0.000	0.000	0.000	0.023
100	Wells Street, Chicago River	0.000	0.001	0.000	0.023
39	Madison Street, South Branch Chicago River	0.000	0.001	0.000	0.023
108	Loomis Street, South Branch Chicago River	0.000	0.001	0.000	0.024
99	Archer Avenue, South Fork South Branch Chicago River	0.000	0.001	0.000	0.023
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.025
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.024
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.019
42	Route 83, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.021
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.023
82	Lockport Trehler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	0.022
<u>Calumet River System</u>					
49	Ewing Avenue, Calumet River	0.000	0.001	0.000	0.024
50	Burnham Avenue, Wolf Lake	0.000	0.001	0.000	0.028
55	130th Street, Calumet River	0.000	0.001	0.000	0.031
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	0.031
56	Indiana Avenue, Little Calumet River	0.000	0.001	0.000	0.030
76	Halsted Street, Little Calumet River	0.000	0.001	0.000	0.020
52	Wentworth Avenue, Little Calumet River	0.000	0.000	0.000	0.043
54	Joe Orr Road, Thorn Creek	ND	0.001	0.000	0.030
97	170th Street, Thorn Creek	0.000	0.001	0.000	0.038
57	Ashland Avenue, Little Calumet River	0.000	0.000	0.000	0.039
58	Ashland Avenue, Calumer Sag Channel	0.000	0.000	0.000	0.029
59	Cicero Avenue, Calumet Sag Channel	0.000	0.000	0.000	0.026
43	Route 83, Calumet Sag Channel	0.000	0.001	0.000	0.028
<u>Des Plaines River System</u>					
90	Route 19, Poplar Creek	0.000	0.001	0.000	0.079
63	Longmeadow Lane, West Branch DuPage River	0.000	0.000	0.000	0.047
89	Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	0.028
64	Lake Street, West Branch DuPage River	0.000	0.001	0.000	0.033
79	Higgins Road, Salt Creek	0.000	0.001	0.000	0.045
80	Arlington Heights Road, Salt Creek	0.000	0.001	0.000	0.031
18	Devon Avenue, Salt Creek	0.000	0.000	0.000	0.030
24	Wolf Road, Salt Creek	0.000	0.001	0.000	0.031
109	Brookfield Avenue, Salt Creek	ND	0.001	0.000	0.034
21	First Avenue, Salt Creek	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.000	0.000	0.000	0.050
78	Wille Road, Higgins Creek	0.000	0.000	0.000	0.022
12	Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	0.048
13	Lake-Cook Road, Des Plaines River	0.000	0.000	0.001	0.038
17	Oakton Steet, Des Plaines River	0.000	0.000	0.001	0.041
19	Belmont Avenue, Des Plaines River	0.000	0.001	0.000	0.037
20	Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.035
22	Ogden Avenue, Des Plaines River	0.000	0.000	0.000	0.036
23	Willow Springs Road, Des Plaines River	0.000	0.001	0.000	0.034
29	Stephen Street, Des Plaines River	0.000	0.001	0.000	0.036
91	Material Service Road, Des Plaines River	0.000	0.001	0.000	0.036

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>	B	Cd	Cu	Cr
No. Name	mg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.147	0.001	0.020	0.003
103 Golf Road, West Fork North Branch Chicago River	0.137	0.000	0.015	0.001
31 Lake-Cook Road, Middle Fork North Branch	0.113	0.000	0.013	0.001
104 Glenview Road, North Branch Chicago River	0.138	0.000	0.013	0.000
32 Lake-Cook Road, Skokie River	0.137	0.000	0.011	0.000
105 Frontage Road, Skokie River	0.193	0.000	0.018	0.002
34 Dempster Street, North Branch Chicago River	0.176	0.000	0.015	0.001
96 Albany Avenue, North Branch Chicago River	0.163	0.000	0.016	0.001
35 Central Street, North Shore Channel	0.050	0.000	0.012	0.000
102 Oakton Street, North Shore Channel	0.090	0.000	0.014	0.002
36 Touhy Avenue, North Shore Channel	0.190	0.000	0.015	0.000
101 Foster Avenue, North Shore Channel	0.176	0.000	0.013	0.001
37 Wilson Avenue, North Branch Chicago River	0.166	0.000	0.015	0.001
73 Diversey Parkway, North Branch Chicago River	0.175	0.000	0.015	0.002
46 Grand Avenue, North Branch Chicago River	0.162	0.000	0.017	0.003
74 Lake Shore Drive, Chicago River	0.057	0.000	0.014	0.001
100 Wells Street, Chicago River	0.103	0.000	0.015	0.001
39 Madison Street, South Branch Chicago River	0.149	0.000	0.015	0.002
108 Loomis Street, South Branch Chicago River	0.144	0.000	0.016	0.002
99 Archer Avenue, South Fork South Branch Chicago River	0.143	0.000	0.016	0.002
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.145	0.000	0.017	0.003
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.145	0.000	0.015	0.003
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.192	0.000	0.013	0.003
42 Route 83, Chicago Sanitary & Ship Canal	0.226	0.000	0.014	0.004
48 Stephen Street, Chicago Sanitary & Ship Canal	0.217	0.000	0.015	0.004
82 Lockport Treblex, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.203	0.000	0.014	0.003
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	0.035	0.000	0.011	0.000
50 Burnham Avenue, Wolf Lake	0.105	0.000	0.013	0.000
55 130th Street, Calumet River	0.084	0.000	0.012	0.000
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.430	0.000	0.017	0.004
56 Indiana Avenue, Little Calumet River	0.128	0.000	0.013	0.001
76 Halsted Street, Little Calumet River	0.187	0.000	0.010	0.001
52 Wentworth Avenue, Little Calumet River	0.267	0.000	0.012	0.001
54 Joe Orr Road, Thorn Creek	0.252	0.000	0.008	0.003
97 170th Street, Thorn Creek	0.279	0.000	0.014	0.002
57 Ashland Avenue, Little Calumet River	0.265	0.000	0.010	0.002
58 Ashland Avenue, Calumet Sag Channel	0.210	0.000	0.011	0.002
59 Cicero Avenue, Calumet Sag Channel	0.192	0.000	0.011	0.003
43 Route 83, Calumet Sag Channel	0.182	0.000	0.013	0.004
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	0.056	0.000	0.012	0.001
63 Longmeadow Lane, West Branch DuPage River	0.040	0.000	0.017	0.000
89 Walnut Lane, West Branch DuPage River	0.264	0.000	0.018	0.001
64 Lake Street, West Branch DuPage River	0.228	0.000	0.019	0.001
79 Higgins Road, Salt Creek	0.073	0.000	0.014	0.003
80 Arlington Heights Road, Salt Creek	0.191	0.000	0.017	0.000
18 Devon Avenue, Salt Creek	0.187	0.000	0.016	0.001
24 Wolf Road, Salt Creek	0.177	0.000	0.017	0.004
109 Brookfield Avenue, Salt Creek	0.198	0.000	0.022	0.003
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.063	0.000	0.018	0.003
78 Wille Road, Higgins Creek	0.282	0.000	0.014	0.002
12 Lake-Cook Road, Buffalo Creek	0.078	0.000	0.012	0.002
13 Lake-Cook Road, Des Plaines River	0.192	0.000	0.016	0.001
17 Oakton Steet, Des Plaines River	0.186	0.000	0.015	0.003
19 Belmont Avenue, Des Plaines River	0.209	0.000	0.016	0.031
20 Roosevelt Road, Des Plaines River	0.207	0.000	0.017	0.018
22 Ogden Avenue, Des Plaines River	0.211	0.000	0.017	0.003
23 Willow Springs Road, Des Plaines River	0.176	0.000	0.015	0.004
29 Stephen Street, Des Plaines River	0.195	0.000	0.016	0.003
91 Material Service Road, Des Plaines River	0.217	0.000	0.015	0.003

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>	Cr <sup>+6</sup>	Fe	Pb	Ni
No. Name	µg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	2.000	1.601	0.006	0.004
103 Golf Road, West Fork North Branch Chicago River	0.375	0.823	0.004	0.003
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.922	0.004	0.002
104 Glenview Road, North Branch Chicago River	0.000	0.847	0.007	0.001
32 Lake-Cook Road, Skokie River	0.556	0.683	0.004	0.002
105 Frontage Road, Skokie River	0.500	0.534	0.006	0.005
34 Dempster Street, North Branch Chicago River	0.455	0.744	0.076	0.003
96 Albany Avenue, North Branch Chicago River	0.400	0.701	0.006	0.002
35 Central Street, North Shore Channel	0.444	0.256	0.003	0.003
102 Oakton Street, North Shore Channel	0.300	0.522	0.006	0.003
36 Touhy Avenue, North Shore Channel	0.000	0.171	0.004	0.005
101 Foster Avenue, North Shore Channel	0.500	0.236	0.005	0.005
37 Wilson Avenue, North Branch Chicago River	0.500	0.355	0.031	0.005
73 Diversey Parkway, North Branch Chicago River	0.667	0.509	0.125	0.006
46 Grand Avenue, North Branch Chicago River	0.667	0.466	0.105	0.008
74 Lake Shore Drive, Chicago River	0.400	0.158	0.003	0.001
100 Wells Street, Chicago River	0.500	0.222	0.004	0.004
39 Madison Street, South Branch Chicago River	0.364	0.389	0.006	0.006
108 Loomis Street, South Branch Chicago River	0.500	0.392	0.007	0.006
99 Archer Avenue, South Fork South Branch Chicago River	0.500	0.454	0.008	0.005
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.583	0.446	0.008	0.007
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.250	0.493	0.009	0.007
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.667	0.261	0.006	0.005
42 Route 83, Chicago Sanitary & Ship Canal	0.167	0.318	0.007	0.008
48 Stephen Street, Chicago Sanitary & Ship Canal	0.167	0.516	0.008	0.007
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.442	0.434	0.007	0.006
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	0.583	0.249	0.004	0.001
50 Burnham Avenue, Wolf Lake	0.833	0.110	0.004	0.001
55 130th Street, Calumet River	1.000	0.330	0.004	0.002
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.700	1.315	0.014	0.005
56 Indiana Avenue, Little Calumet River	0.000	0.791	0.007	0.003
76 Halsted Street, Little Calumet River	0.545	0.330	0.006	0.004
52 Wentworth Avenue, Little Calumet River	1.200	1.350	0.004	0.002
54 Joe Orr Road, Thorn Creek	0.667	1.481	0.005	0.003
97 170th Street, Thorn Creek	1.200	1.088	0.006	0.003
57 Ashland Avenue, Little Calumet River	0.300	1.084	0.007	0.004
58 Ashland Avenue, Calumet Sag Channel	0.583	0.787	0.006	0.004
59 Cicero Avenue, Calumet Sag Channel	1.273	0.745	0.007	0.005
43 Route 83, Calumet Sag Channel	1.273	0.973	0.009	0.005
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	0.700	0.982	0.004	0.001
63 Longmeadow Lane, West Branch DuPage River	0.000	1.353	0.006	0.002
89 Walnut Lane, West Branch DuPage River	0.364	0.608	0.006	0.001
64 Lake Street, West Branch DuPage River	0.750	1.154	0.005	0.002
79 Higgins Road, Salt Creek	0.667	1.666	0.006	0.002
80 Arlington Heights Road, Salt Creek	0.500	0.345	0.004	0.002
18 Devon Avenue, Salt Creek	0.333	0.590	0.004	0.002
24 Wolf Road, Salt Creek	0.583	1.312	0.007	0.004
109 Brookfield Avenue, Salt Creek	0.900	1.579	0.008	0.004
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.200	1.454	0.008	0.002
78 Wille Road, Higgins Creek	0.750	0.227	0.004	0.005
12 Lake-Cook Road, Buffalo Creek	1.250	1.516	0.005	0.002
13 Lake-Cook Road, Des Plaines River	0.667	0.964	0.005	0.005
17 Oakton Street, Des Plaines River	0.500	1.499	0.006	0.004
19 Belmont Avenue, Des Plaines River	0.750	1.145	0.006	0.005
20 Roosevelt Road, Des Plaines River	1.143	1.292	0.005	0.004
22 Ogden Avenue, Des Plaines River	0.000	1.300	0.008	0.005
23 Willow Springs Road, Des Plaines River	0.700	1.068	0.007	0.004
29 Stephen Street, Des Plaines River	0.909	1.176	0.008	0.005
91 Material Service Road, Des Plaines River	0.667	1.213	0.008	0.005

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>	Mn	Hg	Zn	Se
No. Name	mg/L	µg/L	mg/L	mg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.097	0.000	0.045	0.003
103 Golf Road, West Fork North Branch Chicago River	0.070	0.016	0.028	0.003
31 Lake-Cook Road, Middle Fork North Branch	0.077	0.029	0.022	0.005
104 Glenview Road, North Branch Chicago River	0.062	0.013	0.038	0.002
32 Lake-Cook Road, Skokie River	0.081	0.019	0.024	0.005
105 Frontage Road, Skokie River	0.108	0.021	0.047	0.006
34 Dempster Street, North Branch Chicago River	0.112	0.012	0.046	0.008
96 Albany Avenue, North Branch Chicago River	0.072	0.016	0.036	0.006
35 Central Street, North Shore Channel	0.020	0.010	0.025	0.003
102 Oakton Street, North Shore Channel	0.031	0.000	0.042	0.004
36 Touhy Avenue, North Shore Channel	0.016	0.018	0.045	0.007
101 Foster Avenue, North Shore Channel	0.019	0.006	0.046	0.006
37 Wilson Avenue, North Branch Chicago River	0.030	0.017	0.043	0.006
73 Diversey Parkway, North Branch Chicago River	0.046	0.010	0.058	0.006
46 Grand Avenue, North Branch Chicago River	0.038	0.041	0.064	0.007
74 Lake Shore Drive, Chicago River	0.013	0.044	0.024	0.004
100 Wells Street, Chicago River	0.020	0.033	0.030	0.004
39 Madison Street, South Branch Chicago River	0.028	0.058	0.042	0.004
108 Loomis Street, South Branch Chicago River	0.027	0.040	0.041	0.004
99 Archer Avenue, South Fork South Branch Chicago River	0.032	0.018	0.038	0.005
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.035	0.033	0.065	0.005
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.032	0.038	0.041	0.004
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.017	0.021	0.038	0.004
42 Route 83, Chicago Sanitary & Ship Canal	0.029	0.023	0.047	0.004
48 Stephen Street, Chicago Sanitary & Ship Canal	0.039	0.031	0.047	0.005
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.037	0.045	0.049	0.005
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	0.020	0.013	0.010	0.005
50 Burnham Avenue, Wolf Lake	0.035	0.038	0.019	0.003
55 130th Street, Calumet River	0.039	0.009	0.022	0.003
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.158	0.079	0.081	0.004
56 Indiana Avenue, Little Calumet River	0.039	0.027	0.034	0.003
76 Halsted Street, Little Calumet River	0.041	0.007	0.050	0.007
52 Wentworth Avenue, Little Calumet River	0.124	0.027	0.036	0.003
54 Joe Orr Road, Thorn Creek	0.058	0.053	0.040	0.009
97 170th Street, Thorn Creek	0.080	0.034	0.047	0.005
57 Ashland Avenue, Little Calumet River	0.109	0.025	0.050	0.004
58 Ashland Avenue, Calumet Sag Channel	0.055	0.010	0.053	0.006
59 Cicero Avenue, Calumet Sag Channel	0.078	0.007	0.049	0.003
43 Route 83, Calumet Sag Channel	0.094	0.007	0.055	0.004
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	0.083	0.016	0.033	0.015
63 Longmeadow Lane, West Branch DuPage River	0.060	0.000	0.032	0.000
89 Walnut Lane, West Branch DuPage River	0.043	0.016	0.053	0.005
64 Lake Street, West Branch DuPage River	0.076	0.044	0.051	0.004
79 Higgins Road, Salt Creek	0.096	0.032	0.029	0.001
80 Arlington Heights Road, Salt Creek	0.052	0.041	0.036	0.003
18 Devon Avenue, Salt Creek	0.054	0.040	0.036	0.005
24 Wolf Road, Salt Creek	0.069	0.066	0.051	0.003
109 Brookfield Avenue, Salt Creek	0.072	0.035	0.049	0.003
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.115	0.048	0.050	0.005
78 Wille Road, Higgins Creek	0.033	0.038	0.066	0.006
12 Lake-Cook Road, Buffalo Creek	0.134	0.029	0.032	0.001
13 Lake-Cook Road, Des Plaines River	0.083	0.021	0.043	0.006
17 Oakton Street, Des Plaines River	0.093	0.075	0.048	0.004
19 Belmont Avenue, Des Plaines River	0.076	0.052	0.060	0.004
20 Roosevelt Road, Des Plaines River	0.074	0.114	0.059	0.002
22 Ogden Avenue, Des Plaines River	0.077	0.054	0.055	0.007
23 Willow Springs Road, Des Plaines River	0.062	0.037	0.045	0.004
29 Stephen Street, Des Plaines River	0.066	0.016	0.048	0.003
91 Material Service Road, Des Plaines River	0.068	0.015	0.052	0.005

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>	Sol.Ca	Sol.Mg	Sol.Ag	Sol.As
No. Name	mg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	53.7	21.6	0.000	0.000
103 Golf Road, West Fork North Branch Chicago River	66.0	26.0	0.000	0.001
31 Lake-Cook Road, Middle Fork North Branch	62.0	27.6	0.000	0.000
104 Glenview Road, North Branch Chicago River	65.7	28.0	0.001	0.000
32 Lake-Cook Road, Skokie River	66.4	27.9	0.000	0.001
105 Frontage Road, Skokie River	56.8	23.9	0.001	0.000
34 Dempster Street, North Branch Chicago River	61.4	24.8	0.000	0.000
96 Albany Avenue, North Branch Chicago River	62.4	25.7	0.000	0.000
35 Central Street, North Shore Channel	39.0	13.4	0.000	0.000
102 Oakton Street, North Shore Channel	46.2	15.6	0.000	0.000
36 Touhy Avenue, North Shore Channel	51.1	18.2	0.000	0.000
101 Foster Avenue, North Shore Channel	52.2	18.5	0.000	0.000
37 Wilson Avenue, North Branch Chicago River	53.8	19.4	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	52.7	18.8	0.000	0.000
46 Grand Avenue, North Branch Chicago River	54.4	19.4	0.000	0.000
74 Lake Shore Drive, Chicago River	39.1	13.1	0.000	0.000
100 Wells Street, Chicago River	46.2	16.0	0.000	0.000
39 Madison Street, South Branch Chicago River	53.0	19.1	0.000	0.000
108 Loomis Street, South Branch Chicago River	51.5	18.1	0.000	0.000
99 Archer Avenue, South Fork South Branch Chicago River	49.8	17.5	0.001	0.000
40 Damen Avenue, Chicago Sanitary & Ship Canal	50.3	17.8	0.001	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	49.9	17.3	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	52.0	18.1	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	55.2	19.5	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	57.7	20.4	0.000	0.000
82 Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	55.7	20.1	0.000	0.000
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	35.8	11.9	0.000	0.000
50 Burnham Avenue, Wolf Lake	31.8	12.2	0.000	0.001
55 130th Street, Calumet River	41.1	13.7	0.000	0.000
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	83.9	62.4	0.000	0.000
56 Indiana Avenue, Little Calumet River	47.4	17.4	0.000	0.000
76 Halsted Street, Little Calumet River	59.3	20.1	0.001	0.000
52 Wentworth Avenue, Little Calumet River	90.7	35.3	0.001	0.000
54 Joe Orr Road, Thorn Creek	60.7	24.8	0.000	0.000
97 170th Street, Thorn Creek	77.4	33.5	0.000	0.000
57 Ashland Avenue, Little Calumet River	82.1	33.3	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	62.8	22.8	0.000	0.000
59 Cicero Avenue, Calumet Sag Channel	61.7	22.2	0.000	0.000
43 Route 83, Calumet Sag Channel	61.1	22.2	0.000	0.000
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	60.5	26.4	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	53.2	19.4	0.001	0.000
89 Walnut Lane, West Branch DuPage River	53.0	18.9	0.000	0.000
64 Lake Street, West Branch DuPage River	52.7	18.9	0.000	0.000
79 Higgins Road, Salt Creek	53.0	21.2	0.000	0.000
80 Arlington Heights Road, Salt Creek	56.7	21.8	0.000	0.000
18 Devon Avenue, Salt Creek	57.2	21.4	0.000	0.000
24 Wolf Road, Salt Creek	56.9	21.9	0.000	0.000
109 Brookfield Avenue, Salt Creek	55.1	21.4	0.000	0.000
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	46.3	14.3	0.000	0.000
78 Wille Road, Higgins Creek	61.2	21.7	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	61.3	27.5	0.000	0.000
13 Lake-Cook Road, Des Plaines River	62.0	27.1	0.000	0.001
17 Oakton Steet, Des Plaines River	59.4	25.6	0.000	0.000
19 Belmont Avenue, Des Plaines River	59.3	23.8	0.000	0.000
20 Roosevelt Road, Des Plaines River	54.0	22.3	0.000	0.000
22 Ogden Avenue, Des Plaines River	64.9	25.3	0.000	0.000
23 Willow Springs Road, Des Plaines River	56.2	22.9	0.000	0.000
29 Stephen Street, Des Plaines River	60.3	24.6	0.000	0.000
91 Material Service Road, Des Plaines River	62.2	25.5	0.000	0.000

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>	Sol.Ba	Sol.B	Sol.Cd	Sol.Cu
No. Name	mg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.034	0.132	0.000	0.005
103 Golf Road, West Fork North Branch Chicago River	0.043	0.122	0.000	0.002
31 Lake-Cook Road, Middle Fork North Branch	0.037	0.098	0.000	0.001
104 Glenview Road, North Branch Chicago River	0.033	0.130	0.000	0.001
32 Lake-Cook Road, Skokie River	0.039	0.115	0.000	0.001
105 Frontage Road, Skokie River	0.024	0.174	0.000	0.001
34 Dempster Street, North Branch Chicago River	0.032	0.159	0.000	0.001
96 Albany Avenue, North Branch Chicago River	0.032	0.149	0.000	0.001
35 Central Street, North Shore Channel	0.021	0.044	0.000	0.001
102 Oakton Street, North Shore Channel	0.021	0.081	0.000	0.001
36 Touhy Avenue, North Shore Channel	0.017	0.173	0.000	0.001
101 Foster Avenue, North Shore Channel	0.018	0.157	0.000	0.001
37 Wilson Avenue, North Branch Chicago River	0.020	0.148	0.000	0.001
73 Diversey Parkway, North Branch Chicago River	0.019	0.155	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.019	0.150	0.000	0.001
74 Lake Shore Drive, Chicago River	0.021	0.050	0.000	0.002
100 Wells Street, Chicago River	0.020	0.096	0.000	0.001
39 Madison Street, South Branch Chicago River	0.017	0.130	0.000	0.002
108 Loomis Street, South Branch Chicago River	0.019	0.118	0.000	0.002
99 Archer Avenue, South Fork South Branch Chicago River	0.017	0.130	0.000	0.001
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.018	0.128	0.000	0.002
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.017	0.132	0.000	0.002
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.015	0.176	0.000	0.001
42 Route 83, Chicago Sanitary & Ship Canal	0.015	0.206	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.017	0.202	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.017	0.186	0.000	0.001
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	0.019	0.028	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.025	0.082	0.000	0.001
55 130th Street, Calumet River	0.024	0.065	0.000	0.001
51 INB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.018	0.375	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.023	0.113	0.000	0.001
76 Halsted Street, Little Calumet River	0.016	0.177	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.034	0.255	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.024	0.243	0.000	0.000
97 170th Street, Thorn Creek	0.027	0.230	0.000	0.001
57 Ashland Avenue, Little Calumet River	0.032	0.254	0.000	0.000
58 Ashland Avenue, Calumet Sag Channel	0.018	0.181	0.000	0.001
59 Cicero Avenue, Calumet Sag Channel	0.019	0.184	0.000	0.000
43 Route 83, Calumet Sag Channel	0.017	0.156	0.000	0.001
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	0.071	0.046	0.000	0.001
63 Longmeadow Lane, West Branch DuPage River	0.035	0.039	0.000	0.004
89 Walnut Lane, West Branch DuPage River	0.024	0.231	0.000	0.004
64 Lake Street, West Branch DuPage River	0.025	0.204	0.000	0.002
79 Higgins Road, Salt Creek	0.036	0.068	0.000	0.001
80 Arlington Heights Road, Salt Creek	0.027	0.171	0.000	0.002
18 Devon Avenue, Salt Creek	0.026	0.163	0.000	0.002
24 Wolf Road, Salt Creek	0.024	0.160	0.000	0.003
109 Brookfield Avenue, Salt Creek	0.025	0.158	0.000	0.003
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.040	0.055	0.000	0.003
78 Wille Road, Higgins Creek	0.018	0.256	0.000	0.002
12 Lake-Cook Road, Buffalo Creek	0.034	0.065	0.000	0.001
13 Lake-Cook Road, Des Plaines River	0.031	0.179	0.000	0.002
17 Oakton Street, Des Plaines River	0.032	0.165	0.000	0.001
19 Belmont Avenue, Des Plaines River	0.027	0.169	0.000	0.002
20 Roosevelt Road, Des Plaines River	0.027	0.184	0.000	0.001
22 Ogden Avenue, Des Plaines River	0.027	0.182	0.000	0.002
23 Willow Springs Road, Des Plaines River	0.027	0.165	0.000	0.002
29 Stephen Street, Des Plaines River	0.028	0.184	0.000	0.002
91 Material Service Road, Des Plaines River	0.028	0.195	0.000	0.002

ND = No Data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>		Sol.Cr	Sol.Fe	Sol.Pb	Sol.Ni
No. Name		mg/L	mg/L	mg/L	mg/L
<u>Chicago River System</u>					
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0.001	0.042	0.002	0.000
103	Golf Road, West Fork North Branch Chicago River	0.001	0.024	0.002	0.001
31	Lake-Cook Road, Middle Fork North Branch	0.001	0.070	0.001	0.000
104	Glenview Road, North Branch Chicago River	0.001	0.045	0.002	0.000
32	Lake-Cook Road, Skokie River	0.001	0.071	0.001	0.000
105	Frontage Road, Skokie River	0.001	0.036	0.002	0.000
34	Dempster Street, North Branch Chicago River	0.001	0.035	0.002	0.000
96	Albany Avenue, North Branch Chicago River	0.001	0.038	0.002	0.001
35	Central Street, North Shore Channel	0.001	0.021	0.001	0.000
102	Oakton Street, North Shore Channel	0.001	0.047	0.001	0.002
36	Touhy Avenue, North Shore Channel	0.001	0.026	0.002	0.003
101	Foster Avenue, North Shore Channel	0.001	0.037	0.002	0.003
37	Wilson Avenue, North Branch Chicago River	0.001	0.038	0.002	0.003
73	Diversey Parkway, North Branch Chicago River	0.001	0.049	0.002	0.003
46	Grand Avenue, North Branch Chicago River	0.002	0.048	0.002	0.005
74	Lake Shore Drive, Chicago River	0.001	0.012	0.001	0.001
100	Wells Street, Chicago River	0.001	0.021	0.002	0.002
39	Madison Street, South Branch Chicago River	0.002	0.035	0.002	0.004
108	Loomis Street, South Branch Chicago River	0.001	0.027	0.002	0.004
99	Archer Avenue, South Fork South Branch Chicago River	0.001	0.027	0.002	0.004
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.001	0.030	0.002	0.004
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.020	0.002	0.003
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.029	0.002	0.004
42	Route 83, Chicago Sanitary & Ship Canal	0.002	0.033	0.002	0.005
48	Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.031	0.002	0.005
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.030	0.002	0.005
<u>Calumet River System</u>					
49	Ewing Avenue, Calumet River	0.001	0.006	0.001	0.000
50	Burnham Avenue, Wolf Lake	0.001	0.010	0.001	0.000
55	130th Street, Calumet River	0.001	0.011	0.001	0.000
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.002	0.052	0.001	0.002
56	Indiana Avenue, Little Calumet River	0.001	0.013	0.001	0.001
76	Halsted Street, Little Calumet River	0.002	0.037	0.002	0.002
52	Wentworth Avenue, Little Calumet River	0.001	0.054	0.001	0.000
54	Joe Orr Road, Thorn Creek	0.002	0.082	0.001	0.000
97	170th Street, Thorn Creek	0.002	0.053	0.002	0.001
57	Ashland Avenue, Little Calumet River	0.001	0.057	0.001	0.002
58	Ashland Avenue, Calumet Sag Channel	0.001	0.040	0.002	0.001
59	Cicero Avenue, Calumet Sag Channel	0.001	0.034	0.002	0.002
43	Route 83, Calumet Sag Channel	0.001	0.025	0.002	0.002
<u>Des Plaines River System</u>					
90	Route 19, Poplar Creek	0.001	0.057	0.002	0.000
63	Longmeadow Lane, West Branch DuPage River	0.001	0.108	0.001	0.000
89	Walnut Lane, West Branch DuPage River	0.001	0.069	0.002	0.000
64	Lake Street, West Branch DuPage River	0.001	0.049	0.002	0.000
79	Higgins Road, Salt Creek	0.001	0.095	0.001	0.000
80	Arlington Heights Road, Salt Creek	0.001	0.055	0.002	0.001
18	Devon Avenue, Salt Creek	0.001	0.049	0.002	0.000
24	Wolf Road, Salt Creek	0.001	0.056	0.002	0.002
109	Brookfield Avenue, Salt Creek	0.001	0.040	0.002	0.002
21	First Avenue, Salt Creek	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.001	0.086	0.003	0.001
78	Wille Road, Higgins Creek	0.001	0.044	0.002	0.004
12	Lake-Cook Road, Buffalo Creek	0.001	0.043	0.001	0.000
13	Lake-Cook Road, Des Plaines River	0.001	0.037	0.002	0.003
17	Oakton Steet, Des Plaines River	0.001	0.032	0.001	0.002
19	Belmont Avenue, Des Plaines River	0.025	0.034	0.002	0.003
20	Roosevelt Road, Des Plaines River	0.013	0.040	0.001	0.002
22	Ogden Avenue, Des Plaines River	0.001	0.046	0.003	0.003
23	Willow Springs Road, Des Plaines River	0.001	0.033	0.001	0.002
29	Stephen Street, Des Plaines River	0.001	0.026	0.002	0.002
91	Material Service Road, Des Plaines River	0.001	0.032	0.002	0.003

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-1 (Continued)

WATERWAYS SAMPLE MEANS IN 2003

<u>Sampling Station</u>	Sol.Mn	Sol.Hg	Sol.Zn	Sol.Se
No. Name	mg/L	µg/L	mg/L	mg/L
<u>Chicago River System</u>				
30 Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND
106 Dundee Road, West Fork North Branch Chicago River	0.032	ND	0.012	0.000
103 Golf Road, West Fork North Branch Chicago River	0.037	0.020	0.008	0.004
31 Lake-Cook Road, Middle Fork North Branch	0.057	0.075	0.004	0.002
104 Glenview Road, North Branch Chicago River	0.025	ND	0.013	0.002
32 Lake-Cook Road, Skokie River	0.065	0.065	0.006	0.004
105 Frontage Road, Skokie River	0.012	0.000	0.022	0.006
34 Dempster Street, North Branch Chicago River	0.034	0.075	0.014	0.005
96 Albany Avenue, North Branch Chicago River	0.025	0.075	0.012	0.003
35 Central Street, North Shore Channel	0.010	0.000	0.006	0.003
102 Oakton Street, North Shore Channel	0.019	ND	0.015	0.001
36 Touhy Avenue, North Shore Channel	0.010	0.000	0.029	0.005
101 Foster Avenue, North Shore Channel	0.012	0.000	0.027	0.004
37 Wilson Avenue, North Branch Chicago River	0.015	0.000	0.024	0.004
73 Diversey Parkway, North Branch Chicago River	0.021	0.000	0.024	0.004
46 Grand Avenue, North Branch Chicago River	0.024	0.000	0.026	0.005
74 Lake Shore Drive, Chicago River	0.007	0.015	0.009	0.003
100 Wells Street, Chicago River	0.016	0.000	0.018	0.004
39 Madison Street, South Branch Chicago River	0.022	0.075	0.023	0.002
108 Loomis Street, South Branch Chicago River	0.020	0.000	0.023	0.005
99 Archer Avenue, South Fork South Branch Chicago River	0.024	0.000	0.020	0.004
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.022	0.003	0.027	0.004
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.000	0.019	0.004
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.013	0.007	0.023	0.003
42 Route 83, Chicago Sanitary & Ship Canal	0.020	0.000	0.026	0.002
48 Stephen Street, Chicago Sanitary & Ship Canal	0.026	0.087	0.024	0.004
82 Lockport Treblez, Chicago Sanitary & Ship Canal	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.026	0.002	0.024	0.004
<u>Calumet River System</u>				
49 Ewing Avenue, Calumet River	0.006	0.000	0.005	0.004
50 Burnham Avenue, Wolf Lake	0.004	0.000	0.001	0.003
55 130th Street, Calumet River	0.005	ND	0.003	0.003
51 IHS Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0.108	0.022	0.021	0.002
56 Indiana Avenue, Little Calumet River	0.008	0.000	0.009	0.003
76 Halsted Street, Little Calumet River	0.026	0.000	0.031	0.005
52 Wentworth Avenue, Little Calumet River	0.090	0.000	0.012	0.003
54 Joe Orr Road, Thorn Creek	0.026	0.070	0.021	0.008
97 170th Street, Thorn Creek	0.046	0.000	0.023	0.004
57 Ashland Avenue, Little Calumet River	0.083	0.000	0.024	0.003
58 Ashland Avenue, Calumet Sag Channel	0.033	0.070	0.031	0.005
59 Cicero Avenue, Calumet Sag Channel	0.033	0.000	0.019	0.004
43 Route 83, Calumet Sag Channel	0.024	0.000	0.019	0.004
<u>Des Plaines River System</u>				
90 Route 19, Poplar Creek	0.040	0.000	0.010	0.003
63 Longmeadow Lane, West Branch DuPage River	0.029	ND	0.009	0.000
89 Walnut Lane, West Branch DuPage River	0.029	0.000	0.032	0.004
64 Lake Street, West Branch DuPage River	0.037	0.000	0.027	0.005
79 Higgins Road, Salt Creek	0.023	0.000	0.003	0.001
80 Arlington Heights Road, Salt Creek	0.020	0.000	0.018	0.002
18 Devon Avenue, Salt Creek	0.021	0.070	0.018	0.003
24 Wolf Road, Salt Creek	0.029	0.020	0.025	0.002
109 Brookfield Avenue, Salt Creek	0.026	0.000	0.017	0.003
21 First Avenue, Salt Creek	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	0.074	0.000	0.016	0.003
78 Wille Road, Higgins Creek	0.019	0.000	0.049	0.004
12 Lake-Cook Road, Buffalo Creek	0.025	0.000	0.002	0.003
13 Lake-Cook Road, Des Plaines River	0.030	0.045	0.018	0.005
17 Oakton Street, Des Plaines River	0.025	0.032	0.014	0.002
19 Belmont Avenue, Des Plaines River	0.029	0.000	0.025	0.004
20 Roosevelt Road, Des Plaines River	0.021	0.000	0.020	0.003
22 Ogden Avenue, Des Plaines River	0.033	0.090	0.028	0.005
23 Willow Springs Road, Des Plaines River	0.019	0.000	0.017	0.002
29 Stephen Street, Des Plaines River	0.018	0.005	0.019	0.002
91 Material Service Road, Des Plaines River	0.019	0.000	0.021	0.003

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-2

DISSOLVED OXYGEN VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-3

TEMPERATURE VIOLATION HISTORY THROUGH 2003

Sampling Station No. Name	Ratio of Violations/Sampling Frequency per year							
	03	02	01	00	99	98	97	96
<u>Chicago River System</u>								
30 Lake-Cook Road, West Fork North Branch	ND	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4
106 Dundee Road, West Fork North Branch Chicago River	0/ 3	0/ 5	0/ 5	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0/ 8	0/ 9	0/ 10	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0/ 8	0/ 7	0/ 11	0/ 9	0/ 10	0/ 12	0/ 8	0/ 8
104 Glenview Road, North Branch Chicago River	0/ 3	0/ 7	0/ 10	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0/ 8	0/ 7	0/ 11	0/ 9	0/ 10	0/ 12	0/ 8	0/ 8
105 Frontage Road, Skokie River	0/ 11	0/ 10	0/ 10	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0/ 11	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 10	0/ 12
96 Albany Avenue, North Branch Chicago River	0/ 10	0/ 11	0/ 12	0/ 6	ND	ND	ND	ND
35 Central Street, North Branch Channel	0/ 9	0/ 7	0/ 9	0/ 8	0/ 9	0/ 9	0/ 8	0/ 9
102 Oakton Street, North Shore Channel	0/ 10	0/ 10	0/ 10	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 10	0/ 12
101 Foster Avenue, North Shore Channel	0/ 11	0/ 11	0/ 10	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12
73 Diversy Parkway, North Branch Chicago River	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12
46 Grand Avenue, North Branch Chicago River	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11	0/ 12	0/ 9	0/ 12
74 Lake Shore Drive, Chicago River	0/ 10	0/ 12	0/ 11	0/ 12	0/ 10	0/ 12	0/ 7	0/ 11
100 Wells Street, Chicago River	0/ 12	0/ 12	0/ 7	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0/ 11	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12	0/ 7	0/ 12
108 Loomis Street, South Branch Chicago River	0/ 12	0/ 11	0/ 9	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 11	0/ 10	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0/ 12	ND	ND	0/ 9	0/ 10	0/ 12	0/ 10	0/ 12
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	0/ 11	0/ 10	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 11	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10	0/ 12
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10	0/ 12	0/ 9	0/ 12
42 Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 7	0/ 12
48 Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 10	0/ 12	0/ 9	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/ 46	0/ 54	0/ 48	ND	ND	ND	ND
<u>Calumet River System</u>								
49 Ewing Avenue, Calumet River	0/ 12	0/ 10	0/ 13	0/ 11	0/ 20	0/ 24	0/ 23	0/ 14
50 Burnham Avenue, Wolf Lake	1/ 12	0/ 10	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
55 130th Street, Calumet River	0/ 10	0/ 10	0/ 13	0/ 10	0/ 18	0/ 24	0/ 23	0/ 14
51 IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	0/ 10	0/ 9	0/ 9	0/ 10	0/ 10	0/ 12	0/ 12	0/ 10
56 Indiana Avenue, Little Calumet River	0/ 11	0/ 12	0/ 10	0/ 11	0/ 19	0/ 23	0/ 22	0/ 14
76 Halsted Street, Little Calumet River	0/ 11	0/ 12	0/ 14	0/ 11	0/ 19	0/ 24	0/ 24	0/ 4
52 Wentworth Avenue, Little Calumet River	1/ 10	0/ 11	0/ 11	0/ 10	0/ 10	0/ 12	0/ 12	0/ 8
54 Joe Orr Road, Thorn Creek	0/ 3	0/ 7	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11
97 176th Street, Thorn Creek	1/ 10	0/ 11	0/ 10	ND	ND	ND	ND	ND
57 Ashlund Avenue, Little Calumet River	1/ 10	0/ 11	0/ 10	0/ 10	0/ 11	0/ 12	0/ 12	0/ 8
58 Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 11	0/ 14	0/ 11	0/ 20	0/ 16	0/ 15	0/ 15
59 Cicero Avenue, Cal-Sag Channel	0/ 11	0/ 9	0/ 14	0/ 11	0/ 20	0/ 24	0/ 24	0/ 14
43 Route 83, Cal-Sag Channel	0/ 11	0/ 10	0/ 14	0/ 11	0/ 20	0/ 24	0/ 24	0/ 13
<u>Des Plaines River System</u>								
90 Route 19, Poplar Creek	0/ 10	0/ 8	0/ 11	0/ 7	0/ 9	1/ 11	0/ 8	0/ 11
63 Longmeadow Lane, West Branch DuPage River	0/ 1	ND	0/ 4	0/ 9	0/ 9	1/ 8	0/ 8	0/ 11
89 Walnut Lane, West Branch DuPage River	0/ 11	0/ 12	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 12
64 Lake Street, West Branch DuPage River	0/ 12	0/ 12	0/ 11	0/ 10	0/ 10	1/ 12	0/ 10	0/ 11
79 Higgins Road, Salt Creek	0/ 9	0/ 7	0/ 10	0/ 10	0/ 9	1/ 10	0/ 9	0/ 10
60 Arlington Heights Road, Salt Creek	1/ 12	0/ 9	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 11
18 Devon Avenue, Salt Creek	1/ 12	0/ 10	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 11
24 Wolf Road, Salt Creek	0/ 11	0/ 11	0/ 12	0/ 10	0/ 11	1/ 6	0/ 8	0/ 11
109 Brookfield Avenue, Salt Creek	0/ 9	0/ 4	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	0/ 3	0/ 12	0/ 10	0/ 11	1/ 12	0/ 9	0/ 11
77 Elmhurst Road, Higgins Creek	0/ 5	0/ 6	1/ 11	0/ 10	0/ 11	1/ 12	0/ 7	0/ 11
78 Wille Road, Higgins Creek	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11	1/ 12	0/ 8	0/ 11
12 Lake-Cook Road, Buffalo Creek	0/ 8	0/ 6	1/ 11	0/ 10	0/ 10	1/ 11	0/ 10	0/ 11
13 Lake-Cook Road, Des Plaines River	0/ 12	0/ 10	0/ 12	0/ 12	0/ 10	1/ 12	0/ 10	0/ 11
17 Oakton Street, Des Plaines River	0/ 10	0/ 10	0/ 12	0/ 10	0/ 11	1/ 12	0/ 8	0/ 11
19 Belmont Avenue, Des Plaines River	0/ 12	0/ 10	0/ 12	0/ 10	0/ 11	1/ 12	0/ 10	0/ 11
20 Roosevelt Road, Des Plaines River	0/ 7	0/ 10	0/ 12	0/ 10	0/ 11	1/ 12	0/ 10	0/ 11
22 Ogden Avenue, Des Plaines River	0/ 5	0/ 10	0/ 12	0/ 10	0/ 11	1/ 12	0/ 10	0/ 12
23 Willow Springs Road, Des Plaines River	0/ 10	0/ 9	0/ 12	0/ 10	0/ 11	1/ 12	0/ 7	0/ 11
29 Stephen Street, Des Plaines River	0/ 11	0/ 11	0/ 12	0/ 9	0/ 11	1/ 12	0/ 6	0/ 11
91 Material Service Road, Des Plaines River	0/ 12	0/ 11	1/ 52	0/ 48	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-4

pH VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-5

CHLORIDE VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-6

AMMONIUM NITROGEN VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-7

UN-IONIZED AMMONIA VIOLATION HISTORY THROUGH 2003

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

ND = No Data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-8

TOTAL DISSOLVED SOLIDS VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-9

PHENOLS VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-10

SULFATE VIOLATION HISTORY THROUGH 2003

<u>Sampling Station</u>		Ratio of Violations/Sampling Frequency per year							
		03	02	01	00	99	98	97	96
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	ND	ND	0/ 2	0/ 1	ND	ND	ND	0/ 4
106	Dundee Road, West Fork North Branch Chicago River	0/ 3	0/ 6	0/ 5	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0/ 8	0/ 11	0/ 10	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0/ 9	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8
104	Glenview Road, North Branch Chicago River	0/ 3	0/ 9	0/ 10	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0/ 9	0/ 10	0/ 11	0/ 10	0/ 11	0/ 12	0/ 10	0/ 8
105	Frontage Road, Skokie River	0/ 12	0/ 12	0/ 10	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0/ 11	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 11	0/ 12
96	Albany Avenue, North Branch Chicago River	0/ 10	0/ 12	0/ 12	0/ 6	ND	ND	ND	ND
35	Central Street, North Shore Channel	0/ 9	0/ 9	0/ 9	0/ 9	0/ 10	0/ 9	0/ 10	0/ 9
102	Oakton Street, North Shore Channel	0/ 10	0/ 11	0/ 10	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0/ 10	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 11
100	Wells Street, Chicago River	0/ 12	0/ 12	0/ 7	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49	Ewing Avenue, Calumet River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 10
50	Burnham Avenue, Wolf Lake	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
55	130th Street, Calumet River	0/ 10	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 10
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0/ 10	0/ 11	0/ 11	0/ 11	0/ 10	0/ 12	0/ 12	0/ 9
54	Joe Orr Road, Thorn Creek	1/ 3	6/ 7	8/ 12	2/ 12	3/ 12	4/ 12	4/ 12	3/ 12
97	170th Street, Thorn Creek	6/ 10	6/ 12	0/ 10	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1/ 10	0/ 12	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 9
58	Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	0/ 10	0/ 9	0/ 11	0/ 7	0/ 10	0/ 11	0/ 9	0/ 11
63	Longmeadow Lane, West Branch DuPage River	0/ 1	ND	0/ 4	0/ 9	0/ 9	0/ 8	0/ 10	0/ 11
89	Walnut Lane, West Branch DuPage River	0/ 11	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12
64	Lake Street, West Branch DuPage River	0/ 12	0/ 12	0/ 11	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11
79	Higgins Road, Salt Creek	0/ 9	0/ 8	0/ 10	0/ 10	0/ 10	0/ 10	0/ 11	0/ 10
80	Arlington Heights Road, Salt Creek	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12
18	Devon Avenue, Salt Creek	0/ 12	0/ 10	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12
24	Wolf Road, Salt Creek	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11	0/ 6	0/ 12	0/ 12
109	Brookfield Avenue, Salt Creek	0/ 10	0/ 6	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0/ 3	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12
77	Elmhurst Road, Higgins Creek	0/ 5	0/ 6	0/ 11	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12
78	Wille Road, Higgins Creek	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 11	0/ 12	0/ 12
12	Lake-Cook Road, Buffalo Creek	0/ 8	0/ 7	0/ 11	0/ 10	0/ 11	0/ 11	0/ 11	0/ 12
13	Lake-Cook Road, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 11	0/ 12
17	Oakton Street, Des Plaines River	0/ 10	0/ 11	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 12
19	Belmont Avenue, Des Plaines River	0/ 12	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12
20	Roosevelt Road, Des Plaines River	0/ 7	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12
22	Ogden Avenue, Des Plaines River	0/ 5	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 13
23	Willow Springs Road, Des Plaines River	0/ 10	0/ 10	0/ 12	0/ 10	0/ 11	0/ 12	0/ 11	0/ 11
29	Stephen Street, Des Plaines River	0/ 11	0/ 12	0/ 12	0/ 10	0/ 11	0/ 12	0/ 12	0/ 12
91	Material Service Road, Des Plaines River	0/ 12	0/ 12	0/ 52	0/ 50	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-11

FATS, OILS, AND GREASES VIOLATION HISTORY THROUGH 2003

Sampling Station No. Name		Ratio of Violations/Sampling Frequency per year							
		03	02	01	00	99	98	97	96
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0/ 12	0/ 12	0/ 10	ND	ND	0/ 3	1/ 12	0/ 12
101	Foster Avenue, North Shore Channel	0/ 12	0/ 12	0/ 9	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 10	ND	ND	0/ 3	2/ 12	1/ 12
73	Diversey Parkway, North Branch Chicago River	0/ 12	0/ 12	2/ 10	ND	ND	0/ 2	2/ 12	0/ 12
46	Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 10	ND	ND	0/ 2	2/ 11	1/ 12
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0/ 10	0/ 12	0/ 10	ND	ND	0/ 2	0/ 11	0/ 12
108	Loomis Street, South Branch Chicago River	0/ 12	0/ 12	1/ 9	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0/ 11	0/ 12	0/ 10	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0/ 12	ND	ND	ND	ND	0/ 2	0/ 12	0/ 12
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0/ 12	0/ 10	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 11	0/ 12	0/ 10	ND	ND	0/ 2	1/ 12	0/ 12
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 10	ND	ND	0/ 2	1/ 12	0/ 12
42	Route 83, Chicago Sanitary & Ship Canal	0/ 11	0/ 12	0/ 10	ND	ND	0/ 2	1/ 10	0/ 12
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 11	0/ 12	0/ 10	ND	ND	0/ 2	2/ 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/ 49	0/ 50	1/ 45	ND	ND	ND	ND	ND
<u>Calumet River System</u>									
49	Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	1/ 10	0/ 11	0/ 9	ND	ND	0/ 3	2/ 12	1/ 11
56	Indiana Avenue, Little Calumet River	0/ 11	0/ 12	0/ 8	ND	ND	0/ 3	1/ 11	0/ 9
76	Halsted Street, Little Calumet River	0/ 11	0/ 12	0/ 10	ND	ND	0/ 3	2/ 12	0/ 4
52	Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 10	ND	ND	ND	1/ 6	0/ 11
59	Cicero Avenue, Cal-Sag Channel	0/ 11	0/ 12	0/ 10	ND	ND	0/ 3	0/ 12	1/ 11
43	Route 83, Cal-Sag Channel	0/ 11	0/ 12	0/ 10	ND	ND	0/ 3	0/ 12	0/ 11
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-12

TOTAL CYANIDE VIOLATION HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Ratio of Violations/Sampling Frequency per year</u>							
		<u>03</u>	<u>02</u>	<u>01</u>	<u>00</u>	<u>99</u>	<u>98</u>	<u>97</u>	<u>96</u>
<u>Chicago River System</u>									
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND
104	Glennview Road, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	0/ 3
96	Albany Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
101	Foster Avenue, North Shore Channel	0/ 12	0/ 12	0/ 10	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
73	Diversey Parkway, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
46	Grand Avenue, North Branch Chicago River	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	0/ 2
100	Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0/ 11	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12
108	Loomis Street, South Branch Chicago River	0/ 12	0/ 12	0/ 9	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0/ 12	0/ 12	0/ 10	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0/ 12	ND	ND	0/ 9	0/ 11	0/ 12	0/ 12	0/ 12
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0/ 12	0/ 10	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12	0/ 12
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 12
42	Route 83, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 10	0/ 12
48	Stephen Street, Chicago Sanitary & Ship Canal	0/ 12	0/ 12	0/ 12	0/ 11	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/ 52	0/ 50	0/ 54	0/ 48	ND	ND	ND	ND
<u>Calumet River System</u>									
49	Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	0/ 1
50	Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	0/ 3
55	130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	0/ 1
51	IHB Rail Road Bridge, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0/ 10	0/ 11	0/ 10	0/ 11	0/ 11	0/ 12	0/ 12	0/ 11
56	Indiana Avenue, Little Calumet River	0/ 11	0/ 12	0/ 8	0/ 12	0/ 11	0/ 12	0/ 11	0/ 10
76	Halsted Street, Little Calumet River	0/ 11	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 4
52	Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	0/ 3
97	170th Street, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0/ 12	0/ 12	0/ 12	0/ 12	0/ 11	0/ 8	0/ 6	0/ 12
59	Cicero Avenue, Cal-Sag Channel	0/ 11	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
43	Route 83, Cal-Sag Channel	0/ 11	0/ 12	0/ 12	0/ 12	0/ 11	0/ 12	0/ 12	0/ 11
<u>Des Plaines River System</u>									
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	0/ 2
63	Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/ 2
89	Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/ 3
64	Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	0/ 2
79	Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/ 1
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/ 3
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/ 2
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/ 3
109	Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	0/ 3
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	0/ 3
78	Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	0/ 3
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	0/ 3
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	0/ 3
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	0/ 3
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	0/ 3
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	0/ 3
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	0/ 3
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	0/ 2
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	0/ 3
91	Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-13

WEAK ACID DISSOCIABLE CYANIDE VIOLATION HISTORY THROUGH 2003

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

ND - No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-14

FLUORIDE VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-15

FECAL COLIFORM VIOLATION HISTORY THROUGH 2003

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

ND = No Data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-16

GROSS BETA RADIOACTIVITY VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-17

BENZENE VIOLATION HISTORY THROUGH 2003<sup>1</sup>

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

<sup>1</sup>Violation of Human Health standard for General Use waters which became effective in December, 2002  
NA = Not applicable

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-18

BENZENE VIOLATION HISTORY THROUGH 2003<sup>1</sup>

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

<sup>1</sup>Based upon General Use water quality standards which became effective in December, 2002  
 NA = Not applicable, ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-19

ETHYLBENZENE VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-20

TOLUENE VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-21

XYLENE VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-22

TOTAL SILVER VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-23

TOTAL ARSENIC VIOLATION HISTORY THROUGH 2003

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

ND = No Data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-24

TOTAL BARIUM VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-25

TOTAL BORON VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-26

TOTAL CADMIUM VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-27

TOTAL COPPER VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-28

TOTAL CHROMIUM VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-29

TOTAL HEXAVALENT CHROMIUM VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-30

TOTAL IRON VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-31

TOTAL LEAD VIOLATION HISTORY THROUGH 2003

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

ND = No Data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-32

TOTAL NICKEL VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-33

TOTAL MANGANESE VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-34

TOTAL MERCURY VIOLATION HISTORY THROUGH 2003<sup>1</sup>

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

<sup>1</sup>Violation of Human Health standard for General Use waters which became effective in December, 2002  
NA - Not applicable

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-35

TOTAL MERCURY VIOLATION HISTORY THROUGH 2003<sup>1</sup>

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

<sup>1</sup>Based upon General Use water quality standards  
 NA = Not applicable, ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-36

TOTAL ZINC VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-37

TOTAL SELENIUM VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-38

SOLUBLE ARSENIC VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-39

SOLUBLE CADMIUM VIOLATION HISTORY THROUGH 2003

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

ND = No Data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-40

SOLUBLE COPPER VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-41

SOLUBLE CHROMIUM VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-42

SOLUBLE IRON VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-43

SOLUBLE LEAD VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-44

SOLUBLE NICKEL VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-45

SOLUBLE MERCURY VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-46

SOLUBLE ZINC VIOLATION HISTORY THROUGH 2003

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

ND = No Data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-47

BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	2.89	3.50	3.30	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	2.00	2.56	1.56	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	3.30	3.45	2.30	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	7.58	6.58	6.90	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	5.42	6.58	4.90	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	5.25	4.92	4.10	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	3.25	3.00	3.80	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	2.67	1.83	4.00	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	2.70	2.08	0.80	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	3.25	2.33	1.57	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	3.91	2.58	2.50	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	4.25	2.92	1.89	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	3.73	4.83	4.80	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	3.75	4.60	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	4.67	2.58	2.20	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	3.33	2.25	2.90	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	2.75	2.58	2.90	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	2.50	1.25	1.67	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	6.60	6.20	5.29	7.10	6.19	4.41	4.77	4.76
92	Lockport Farebay, Chicago Sanitary & Ship Canal	1.65	1.74	2.82	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.92	0.92	0.60	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	ND	ND	0.00	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	1.90	1.67	0.60	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	ND	ND	4.50	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	2.36	2.42	2.75	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	2.64	1.58	2.90	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	ND	ND	3.00	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	ND	ND	2.00	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	ND	ND	3.50	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	4.50	2.17	3.33	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	3.00	1.25	2.50	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	2.00	2.50	2.30	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	2.00	1.58	2.30	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
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	Willie 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

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-48

CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND MEAN HISTORY THROUGH 2003

Sampling Station No. Name	Annual Means (mg/L)										
	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>											
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	1.778	2.364	2.300	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	1.667	1.111	0.222	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	1.444	1.909	2.000	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	2.250	2.000	2.200	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	1.750	2.333	1.300	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	2.500	2.083	1.400	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	1.167	1.333	1.200	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	0.917	0.500	0.500	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	2.800	1.500	0.500	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	1.667	1.636	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	2.000	1.417	1.100	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	2.583	1.500	0.889	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	1.583	2.250	3.500	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	1.750	1.400	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.833	0.750	1.300	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	1.333	0.500	1.300	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	1.250	0.583	1.100	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	1.167	0.500	1.000	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	0.519	0.400	0.000	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	1.333	0.833	0.600	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	ND	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	1.400	1.250	0.500	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	ND	ND	3.500	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	1.364	1.917	1.375	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	1.000	0.667	1.400	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	ND	ND	1.000	ND	ND	ND	ND	ND	ND	ND	ND
94 Joe Orr Road, Thorn Creek	ND	ND	2.000	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	ND	ND	2.000	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	2.100	1.583	1.778	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Cal-Sag Channel	1.500	0.667	1.100	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Cal-Sag Channel	1.273	0.917	1.500	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Cal-Sag Channel	1.182	0.833	0.700	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
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

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-49

CHEMICAL OXYGEN DEMAND MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	26.3	31.5	38.2
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	21.0	33.3	33.8
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	23.7	33.3	29.9
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	17.5	48.8	25.6
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	8.7	12.5	12.4
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	22.8	27.8	22.4
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	26.6	26.0	21.4
73	Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	16.4	24.7	22.3
46	Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	24.0	25.0	21.3
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	5.8	10.4	13.4
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	19.8	15.8	15.8
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	31.7	20.7	16.1
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	17.2	22.0	18.8
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	18.4	26.3	21.6
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	16.8	26.6	20.4
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	29.8	26.7	25.3
82	Lockport Trestler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	22.3	28.4	26.7
92	Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	9.6	10.2	9.7
50	Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	ND	ND	14.3	23.9	19.2
55	130th Street, Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	12.8	13.6	13.8
86	Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	49.3	59.9	60.7
56	Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	26.0	25.8	28.2
76	Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	29.2	29.3	27.6
52	Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	ND	ND	27.5	37.2	37.9
54	Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	ND	ND	27.8	33.5	34.5
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	27.4	32.8	32.1
58	Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	31.6	30.6	29.2
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	32.0	31.1	31.4
43	Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	31.3	31.5	33.4
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	ND	ND	35.8	33.1	33.8
63	Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	62.5	40.7	40.3
89	Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	54.8	40.9	34.8
64	Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	ND	ND	51.0	44.4	41.8
79	Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	38.6	40.8	34.1
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	28.5	29.9	25.0
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	30.8	35.4	29.1
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	33.8	39.2	32.0
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	31.0	37.7	36.8
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	39.8	57.4	33.8
78	Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	ND	ND	37.2	35.1	29.1
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	ND	ND	34.3	37.5	37.4
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	26.0	36.3	32.2
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	36.5	34.0	30.0
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	45.0	45.4	32.3
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	31.0	40.0	30.9
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	31.2	42.2	34.3
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	30.7	40.4	30.0
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	35.2	44.4	36.0
91	Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-50

DISSOLVED OXYGEN MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	10.75	10.50	ND	ND	ND	8.73	7.51	9.35	6.17
106	Dundee Road, West Fork North Branch Chicago River	7.00	9.12	9.54	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	6.86	7.10	6.98	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	6.22	6.55	6.91	6.99	6.72	6.56	7.44	6.51	5.74	6.04	6.88
104	Glenview Road, North Branch Chicago River	7.47	8.08	7.36	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	6.67	7.14	7.65	7.25	6.59	7.56	7.49	7.91	6.63	6.11	7.41
105	Frontage Road, Skokie River	7.95	8.15	7.49	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	7.45	7.75	7.29	7.50	7.93	8.04	8.18	8.45	6.88	7.66	7.13
96	Albany Avenue, North Branch Chicago River	7.77	7.71	7.42	6.80	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	8.08	7.34	8.03	7.48	7.51	7.20	9.69	6.36	8.18	9.20	9.23
102	Oakton Street, North Shore Channel	6.32	6.58	5.80	ND	ND	ND	ND	ND	ND	ND	ND
36	Toushy Avenue, North Shore Channel	7.54	6.90	7.39	7.24	7.43	7.31	7.85	7.35	6.45	7.58	7.65
101	Foster Avenue, North Shore Channel	7.42	6.53	6.87	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	7.14	6.74	7.13	6.68	6.75	7.04	7.36	6.82	6.37	6.65	7.29
73	Diversey Parkway, North Branch Chicago River	6.25	5.74	6.18	5.84	5.81	6.05	6.36	6.27	6.08	6.67	6.58
46	Grand Avenue, North Branch Chicago River	6.12	5.86	6.00	6.13	6.53	6.35	5.92	6.95	6.93	5.68	5.65
74	Lake Shore Drive, Chicago River	7.62	9.03	7.99	8.04	9.26	9.36	9.79	10.15	9.93	9.68	9.76
100	Wells Street, Chicago River	7.54	7.83	7.27	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	5.73	6.38	6.32	6.67	6.89	7.38	7.82	8.75	8.02	8.30	7.03
108	Loomis Street, South Branch Chicago River	5.97	5.86	5.79	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	5.29	3.91	2.62	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	5.68	ND	ND	5.43	6.19	7.00	7.48	8.21	7.08	7.65	6.03
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	5.60	5.34	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	5.18	5.18	5.28	4.98	5.99	6.21	7.16	6.85	7.00	6.81	5.88
41	Harlem Avenue, Chicago Sanitary & Ship Canal	6.81	6.95	6.60	6.52	7.16	7.13	6.96	7.16	6.97	7.20	6.23
42	Route 83, Chicago Sanitary & Ship Canal	5.85	6.09	5.46	5.46	5.76	5.90	6.23	6.35	6.10	6.10	5.50
48	Stephen Street, Chicago Sanitary & Ship Canal	5.78	5.73	5.38	5.40	5.63	6.03	6.07	6.40	5.84	5.80	5.27
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	5.57	5.32	5.34	5.65	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	9.73	9.65	8.99	9.44	9.81	9.36	10.17	9.53	9.99	8.45	10.56
50	Burnham Avenue, Wolf Lake	8.91	9.77	8.70	9.33	9.45	9.25	9.73	10.25	9.56	8.59	9.92
55	130th Street, Calumet River	8.27	9.17	8.41	8.43	8.97	8.56	8.95	8.97	9.92	9.05	9.63
86	Burnham Avenue, Grand Calumet River	3.94	6.22	4.19	4.43	5.14	5.63	5.25	3.19	3.55	2.50	3.27
56	Indiana Avenue, Little Calumet River	8.40	8.69	8.59	8.20	8.48	7.84	8.16	8.72	8.00	6.59	7.34
76	Halsted Street, Little Calumet River	7.00	6.62	6.69	6.60	6.69	6.60	6.53	7.35	6.29	6.09	5.64
52	Wentworth Avenue, Little Calumet River	6.53	6.47	6.20	6.52	6.23	6.91	6.47	6.08	6.43	6.01	7.43
94	Joe Orr Road, Thorn Creek	8.40	8.54	8.27	8.28	8.85	8.61	8.03	8.36	8.58	8.33	7.72
97	170th Street, Thorn Creek	7.80	8.37	7.29	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	5.42	7.29	5.75	6.28	5.80	6.34	6.08	5.56	6.77	6.25	6.03
58	Ashland Avenue, Cal-Sag Channel	6.98	6.48	6.41	6.37	6.21	5.61	6.66	6.31	5.85	6.34	6.18
59	Cicero Avenue, Cal-Sag Channel	7.23	6.85	5.93	6.35	6.12	6.04	6.44	6.26	6.29	5.81	6.68
43	Route 83, Cal-Sag Channel	7.88	6.93	6.04	6.17	5.95	5.64	6.04	5.83	5.24	5.99	5.64
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	9.16	8.94	9.52	7.91	10.15	8.40	9.26	9.09	9.71	10.03	8.67
63	Longmeadow Lane, West Branch DuPage River	8.90	ND	8.18	7.50	10.04	8.36	9.38	7.76	9.29	8.62	8.76
89	Walnut Lane, West Branch DuPage River	7.48	7.64	6.82	7.01	8.20	7.33	8.22	7.61	8.43	8.52	7.63
64	Lake Street, West Branch DuPage River	8.05	8.38	8.25	7.79	8.74	7.79	7.71	7.37	8.47	9.10	8.49
79	Higgins Road, Salt Creek	7.37	7.59	8.88	7.09	9.07	7.77	8.94	7.35	9.28	8.34	7.65
80	Arlington Heights Road, Salt Creek	7.79	8.07	8.29	7.79	7.97	7.31	8.43	7.74	8.42	8.27	8.58
18	Devon Avenue, Salt Creek	7.59	7.96	8.24	7.78	7.93	7.66	8.98	7.26	8.85	8.30	8.64
24	Wolf Road, Salt Creek	8.64	7.79	8.50	7.74	9.04	9.70	9.73	8.89	8.94	9.32	9.63
109	Brookfield Avenue, Salt Creek	8.13	5.98	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	10.90	7.98	6.72	7.65	6.48	7.07	7.08	7.49	7.63	7.42
77	Elmhurst Road, Higgins Creek	7.48	8.22	8.42	7.71	9.39	7.97	9.23	7.95	8.28	8.75	9.94
78	Wille Road, Higgins Creek	8.16	8.55	8.93	8.43	8.61	7.80	8.97	8.26	8.36	8.87	8.88
12	Lake-Cook Road, Buffalo Creek	8.11	8.60	9.93	7.97	8.60	8.47	8.63	8.50	10.18	8.85	9.42
13	Lake-Cook Road, Des Plaines River	8.30	9.35	9.02	8.04	8.46	8.01	8.55	7.06	8.86	8.97	8.15
17	Oakton Street, Des Plaines River	7.57	8.17	9.00	7.66	8.32	8.11	8.49	7.94	8.14	8.50	8.33
19	Belmont Avenue, Des Plaines River	7.64	7.74	8.59	6.41	7.26	6.58	8.26	7.18	7.38	6.38	7.14
20	Roosevelt Road, Des Plaines River	7.16	7.96	8.31	6.44	7.24	6.44	8.05	7.28	7.63	7.28	7.53
22	Ogden Avenue, Des Plaines River	12.06	9.34	9.20	7.72	8.43	8.40	9.18	8.25	8.61	8.21	8.55
23	Willow Springs Road, Des Plaines River	8.66	8.99	9.44	7.65	8.68	8.41	9.14	8.42	8.85	9.06	7.93
29	Stephen Street, Des Plaines River	9.95	9.53	9.98	7.81	9.15	9.11	9.74	8.82	8.43	9.78	8.12
91	Material Service Road, Des Plaines River	9.65	10.31	8.71	8.42	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-51

TEMPERATURE MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (°C)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	4.1	1.1	ND	ND	ND	15.0	16.3	21.1	14.3
106	Dundee Road, West Fork North Branch Chicago River	19.4	10.8	16.9	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	15.2	12.5	15.8	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	16.7	11.7	14.2	15.5	13.9	12.2	11.6	13.4	12.8	13.3	11.7
104	Glenview Road, North Branch Chicago River	16.5	10.4	15.9	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	16.1	11.9	14.4	15.5	14.0	11.9	12.1	13.1	14.9	15.6	12.1
105	Frontage Road, Skokie River	15.1	12.7	16.7	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	14.3	12.3	14.2	15.3	14.5	13.2	12.4	10.9	14.0	13.6	12.7
96	Albany Avenue, North Branch Chicago River	15.2	12.9	15.3	16.0	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	17.9	14.3	15.3	18.0	15.9	16.2	12.0	13.9	15.0	16.2	11.8
102	Oakton Street, North Shore Channel	16.2	14.9	16.8	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	17.0	16.5	16.9	15.8	16.9	15.8	12.8	14.7	14.2	15.2	15.1
101	Foster Avenue, North Shore Channel	17.9	15.3	17.8	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	17.1	15.1	15.1	14.9	16.0	15.2	12.4	13.7	13.0	14.6	10.6
73	Diversey Parkway, North Branch Chicago River	16.0	15.2	15.3	15.4	16.5	15.4	12.4	13.7	14.5	15.1	14.8
46	Grand Avenue, North Branch Chicago River	14.5	15.3	15.6	14.4	15.1	15.0	14.6	12.1	9.8	14.5	12.2
74	Lake Shore Drive, Chicago River	15.5	12.8	14.0	13.8	14.9	13.3	11.5	10.6	12.4	13.6	9.7
100	Wells Street, Chicago River	14.1	14.0	16.4	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	12.7	14.1	15.0	14.7	14.7	13.8	12.1	10.8	12.2	10.9	11.1
108	Loomis Street, South Branch Chicago River	17.1	17.8	20.0	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	16.1	17.2	18.5	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	16.8	ND	ND	18.3	16.8	15.4	13.3	11.6	14.8	13.8	12.8
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	17.1	17.8	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	20.8	18.8	18.1	18.7	15.6	18.0	12.5	13.5	14.1	14.3	14.5
41	Harlem Avenue, Chicago Sanitary & Ship Canal	17.5	16.9	17.1	17.0	17.9	16.7	13.9	13.5	13.7	15.1	13.6
42	Route 83, Chicago Sanitary & Ship Canal	17.5	16.6	16.9	19.1	18.0	17.2	15.0	14.7	14.8	14.5	14.5
48	Stephen Street, Chicago Sanitary & Ship Canal	15.6	16.4	16.9	18.3	18.5	16.6	14.6	14.2	14.4	14.9	13.3
82	Lockport Treblez, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	17.9	18.7	18.3	19.1	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	12.4	12.7	13.0	13.4	13.5	14.8	12.6	13.3	13.1	13.3	11.7
50	Burnham Avenue, Wolf Lake	14.2	12.1	14.1	13.5	13.6	15.0	12.4	12.5	13.1	14.0	12.7
55	130th Street, Calumet River	14.4	12.3	15.1	14.8	15.7	15.5	13.3	14.8	15.3	14.6	12.8
86	Burnham Avenue, Grand Calumet River	15.6	12.9	15.5	15.1	15.3	15.6	13.7	13.9	14.2	15.4	14.3
56	Indiana Avenue, Little Calumet River	16.2	13.6	17.8	15.2	15.7	16.7	14.1	14.7	14.4	15.2	13.3
76	Halsted Street, Little Calumet River	15.7	14.8	15.0	16.2	16.5	16.4	13.6	4.3	14.9	14.5	14.8
52	Wentworth Avenue, Little Calumet River	16.2	13.1	13.9	14.6	15.3	14.3	11.9	14.7	14.7	14.3	12.5
54	Joe Orr Road, Thorn Creek	14.9	15.0	15.9	17.3	15.0	15.8	13.2	14.0	15.6	14.7	15.2
97	170th Street, Thorn Creek	15.3	14.4	15.5	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	17.1	12.9	15.7	15.6	16.0	14.6	11.2	15.2	13.6	15.5	13.5
58	Ashland Avenue, Cal-Sag Channel	15.1	14.5	14.7	15.7	16.7	19.1	14.1	13.6	15.5	13.7	13.8
59	Cicero Avenue, Cal-Sag Channel	16.9	16.3	14.5	15.5	16.6	16.0	13.1	14.4	13.9	14.1	13.8
43	Route 83, Cal-Sag Channel	16.8	14.9	14.2	15.5	16.5	15.5	14.0	14.9	13.5	13.3	14.2
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	13.8	16.3	14.0	17.7	13.1	17.1	14.6	13.7	15.3	13.2	13.1
63	Longmeadow Lane, West Branch DuPage River	20.4	ND	11.3	16.2	13.9	17.8	10.6	13.4	13.2	15.4	12.5
89	Walnut Lane, West Branch DuPage River	16.6	15.5	15.8	15.2	16.1	18.3	15.1	14.3	15.5	14.0	14.3
64	Lake Street, West Branch DuPage River	14.4	14.2	16.0	15.5	14.7	17.9	13.9	14.7	14.1	14.8	15.0
79	Higgins Road, Salt Creek	15.1	18.9	16.8	15.9	14.4	19.1	14.2	14.5	16.1	16.1	14.1
80	Arlington Heights Road, Salt Creek	14.9	14.2	14.5	14.2	15.2	17.6	14.2	15.2	14.4	12.7	14.1
18	Devon Avenue, Salt Creek	16.0	14.6	14.5	14.5	14.8	17.5	13.5	14.8	14.7	15.0	14.0
24	Wolf Road, Salt Creek	12.9	12.3	13.8	16.3	14.8	9.9	9.6	14.2	13.9	14.3	13.6
109	Brookfield Avenue, Salt Creek	14.1	15.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	3.4	13.5	15.3	13.5	14.8	11.6	13.5	12.5	13.0	12.1
77	Elmhurst Road, Higgins Creek	15.4	15.0	14.5	15.2	14.0	15.3	9.2	12.3	12.7	13.1	12.2
78	Wille Road, Higgins Creek	15.4	16.0	15.6	16.3	16.1	17.3	11.5	15.3	15.4	15.4	14.7
12	Lake-Cook Road, Buffalo Creek	13.7	13.7	13.4	15.4	12.9	16.9	12.1	13.2	14.6	15.7	13.1
13	Lake-Cook Road, Des Plaines River	12.4	12.2	13.3	13.3	12.9	15.7	11.6	13.8	13.1	12.7	12.3
17	Oakton Street, Des Plaines River	15.5	14.4	13.5	15.1	13.8	15.1	10.0	13.3	13.6	2.1	12.8
19	Belmont Avenue, Des Plaines River	13.6	12.1	13.5	15.1	13.7	15.3	10.7	13.4	13.0	12.8	12.7
20	Roosevelt Road, Des Plaines River	15.3	12.2	13.8	15.0	13.3	15.2	10.6	13.5	12.4	12.5	12.2
22	Ogden Avenue, Des Plaines River	6.0	11.3	13.9	15.5	14.1	14.8	11.2	14.6	13.1	14.3	13.0
23	Willow Springs Road, Des Plaines River	15.0	14.4	13.6	16.1	14.8	16.2	10.0	14.2	13.8	14.1	13.3
29	Stephen Street, Des Plaines River	13.8	12.3	14.2	16.6	14.9	16.7	9.0	14.5	13.5	14.7	13.6
91	Material Service Road, Des Plaines River	13.2	12.5	16.2	15.1	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-52

pH MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	7.50	8.00	ND	ND	ND	7.94	8.01	7.86	7.37
106	Dundee Road, West Fork North Branch Chicago River	7.57	7.54	7.38	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	7.65	7.77	7.75	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	7.59	7.44	7.60	7.79	7.87	7.77	6.75	7.93	8.04	7.61	7.58
104	Glenview Road, North Branch Chicago River	7.97	7.73	7.63	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	7.59	7.43	7.61	7.95	7.96	7.82	6.67	7.94	8.10	7.55	7.36
105	Frontage Road, Skokie River	7.65	7.69	7.70	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	7.72	7.59	7.62	7.78	7.84	7.72	6.79	7.73	7.88	7.39	7.38
96	Albany Avenue, North Branch Chicago River	7.69	7.81	7.40	7.65	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	7.31	7.90	7.77	8.31	8.12	8.24	7.03	8.07	8.37	8.05	7.95
102	Oakton Street, North Shore Channel	7.13	7.36	7.37	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	7.25	7.38	7.19	7.63	7.56	7.50	6.95	7.59	7.64	7.47	7.51
101	Foster Avenue, North Shore Channel	7.13	7.28	7.14	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	7.50	7.44	7.29	7.57	7.58	7.68	6.99	7.71	7.38	7.03	7.21
73	Diversey Parkway, North Branch Chicago River	7.26	7.45	7.12	7.59	7.41	7.84	7.16	7.94	7.24	7.28	7.54
46	Grand Avenue, North Branch Chicago River	7.41	7.36	7.09	7.60	7.74	7.82	6.48	7.55	7.60	7.53	7.56
74	Lake Shore Drive, Chicago River	7.33	7.43	7.95	7.70	8.09	8.15	7.96	7.88	7.53	8.08	8.02
100	Wells Street, Chicago River	7.30	7.23	7.66	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	7.25	7.23	7.39	7.54	7.89	7.89	7.75	7.52	7.38	7.65	7.69
108	Loomis Street, South Branch Chicago River	7.36	7.25	7.02	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	7.35	7.13	7.03	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	7.38	ND	ND	7.45	7.72	8.06	7.48	7.68	7.27	7.89	7.60
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	7.10	7.06	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	7.27	7.16	7.23	7.27	7.85	8.02	7.90	7.82	7.24	7.61	7.21
41	Hazlem Avenue, Chicago Sanitary & Ship Canal	7.23	7.17	7.19	7.42	7.67	7.97	7.44	7.38	7.10	7.49	7.38
42	Route 83, Chicago Sanitary & Ship Canal	7.12	7.22	7.13	7.32	7.71	7.98	7.54	7.51	7.33	7.53	7.44
48	Stephen Street, Chicago Sanitary & Ship Canal	7.25	7.26	7.23	7.48	7.62	7.97	7.58	7.49	7.48	7.54	7.54
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	7.75	7.61	7.65	7.80	7.64	7.45	7.72	7.40
92	Lockport Forebay, Chicago Sanitary & Ship Canal	7.33	7.27	7.11	7.28	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	7.65	7.55	7.47	7.96	8.19	8.25	7.88	8.00	7.66	7.86	7.70
50	Burnham Avenue, Wolf Lake	8.18	7.91	7.76	8.06	8.29	8.34	7.93	8.31	8.12	7.72	7.65
55	130th Street, Calumet River	7.86	7.87	7.41	7.72	8.21	8.12	7.91	8.35	8.27	7.87	7.36
86	Burnham Avenue, Grand Calumet River	7.58	7.73	7.39	7.74	7.79	7.94	7.47	8.02	7.55	7.22	7.50
56	Indiana Avenue, Little Calumet River	7.73	7.63	7.79	7.73	8.10	8.03	7.75	8.32	8.16	7.32	7.19
76	Halsted Street, Little Calumet River	7.36	7.35	7.21	7.47	7.82	7.56	7.49	7.32	7.66	7.55	7.38
52	Wentworth Avenue, Little Calumet River	7.63	7.56	7.31	7.84	7.95	8.09	7.70	8.65	7.98	7.58	7.53
54	Joe Orr Road, Thorn Creek	7.37	7.37	7.12	7.51	8.10	7.53	7.07	7.51	7.65	7.34	7.44
97	170th Street, Thorn Creek	7.61	7.58	7.14	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	7.39	7.55	7.20	7.41	7.91	7.65	7.03	7.29	7.61	7.42	7.53
58	Ashland Avenue, Cal-Sag Channel	7.47	7.37	7.26	7.31	7.78	7.92	7.78	7.27	7.68	7.58	7.44
59	Cicero Avenue, Cal-Sag Channel	7.54	7.07	7.19	7.17	7.79	7.74	7.43	7.45	7.54	7.37	7.46
43	Route 83, Cal-Sag Channel	7.66	6.99	7.16	7.17	7.72	7.74	7.63	7.39	7.26	7.36	7.30
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	7.58	7.64	7.54	8.08	8.16	8.17	7.93	7.94	8.00	7.90	7.73
63	Longmeadow Lane, West Branch DuPage River	7.40	ND	7.43	7.95	7.90	8.13	7.66	7.94	7.95	7.81	7.46
89	Walnut Lane, West Branch DuPage River	7.37	7.46	7.42	8.13	7.89	7.90	7.67	7.92	7.85	7.76	7.54
64	Lake Street, West Branch DuPage River	7.48	7.66	7.50	8.30	7.71	8.06	7.88	8.06	7.87	7.82	7.63
79	Higgins Road, Salt Creek	7.54	7.74	7.50	8.16	8.24	8.29	8.09	7.73	8.11	7.65	7.85
80	Arlington Heights Road, Salt Creek	7.34	7.56	7.44	8.16	7.87	7.97	7.94	7.75	8.00	7.83	7.91
18	Devon Avenue, Salt Creek	7.39	7.26	7.58	8.03	7.85	7.87	7.82	7.73	7.89	7.35	7.56
24	Wolf Road, Salt Creek	7.31	7.45	7.63	7.78	8.05	7.91	6.77	7.73	8.18	7.92	6.63
109	Brookfield Avenue, Salt Creek	7.44	7.13	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	7.40	7.43	7.40	7.68	7.65	7.65	7.87	7.64	7.64	6.94
77	Elmhurst Road, Higgins Creek	7.54	7.35	7.65	7.81	8.02	7.75	6.87	7.84	8.07	7.63	7.08
78	Willie Road, Higgins Creek	7.58	7.14	7.72	7.60	7.77	7.75	6.66	7.81	8.13	7.77	6.96
12	Lake-Cook Road, Buffalo Creek	7.70	7.80	7.70	7.85	7.75	7.87	7.81	7.63	7.85	7.02	7.71
13	Lake-Cook Road, Des Plaines River	7.62	7.52	7.68	7.92	7.80	7.93	7.92	8.02	7.73	7.36	7.71
17	Oakton Street, Des Plaines River	7.67	7.34	7.69	7.75	7.89	7.78	7.92	8.00	8.18	8.09	6.96
19	Belmont Avenue, Des Plaines River	7.68	7.40	7.65	7.64	7.78	7.74	8.05	8.09	7.91	7.81	6.93
20	Roosevelt Road, Des Plaines River	7.71	7.32	7.59	7.68	7.77	7.70	7.78	7.93	7.92	7.61	7.03
22	Ogden Avenue, Des Plaines River	7.46	7.49	7.55	7.12	7.43	7.65	7.95	7.88	7.43	7.52	7.23
23	Willow Springs Road, Des Plaines River	7.59	7.60	7.66	7.83	8.13	7.87	6.47	7.95	8.26	8.07	6.63
29	Stephen Street, Des Plaines River	7.67	7.82	7.71	7.82	8.12	7.96	6.74	8.02	8.41	8.17	6.72
91	Material Service Road, Des Plaines River	7.80	7.85	7.40	7.65	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-53

ALKALINITY (TOTAL) MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	196	170	ND	ND	ND	152	148	106	278
106	Dundee Road, West Fork North Branch Chicago River	138	187	180	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	168	185	177	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	194	213	201	189	205	209	183	206	197	202	209
104	Glenview Road, North Branch Chicago River	170	183	189	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	191	210	210	200	191	231	200	237	199	200	222
105	Frontage Road, Skokie River	160	178	182	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	159	180	179	163	171	194	180	177	134	184	183
96	Albany Avenue, North Branch Chicago River	170	176	186	161	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	117	119	111	126	129	126	119	140	121	119	118
102	Oakton Street, North Shore Channel	128	130	119	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	140	149	151	137	142	152	144	151	171	159	154
101	Foster Avenue, North Shore Channel	137	149	142	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	139	148	156	141	152	161	162	157	174	151	168
73	Diversey Parkway, North Branch Chicago River	139	144	155	138	150	161	149	156	155	157	158
46	Grand Avenue, North Branch Chicago River	145	147	157	143	151	167	149	160	178	158	155
74	Lake Shore Drive, Chicago River	116	120	125	123	117	120	115	114	122	122	114
100	Wells Street, Chicago River	130	130	132	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	140	141	147	137	144	148	131	136	140	133	140
108	Loomis Street, South Branch Chicago River	138	154	137	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	133	148	157	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	136	ND	ND	136	149	152	132	139	133	143	143
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	150	139	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	132	153	141	135	140	144	133	134	148	144	142
41	Harlem Avenue, Chicago Sanitary & Ship Canal	117	137	139	121	129	137	131	122	142	138	142
42	Route 83, Chicago Sanitary & Ship Canal	126	140	137	126	131	140	137	133	145	148	147
48	Stephen Street, Chicago Sanitary & Ship Canal	138	158	144	158	139	142	143	137	152	156	157
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	143	135	149	244	480	212	179	182
92	Lockport Forebay, Chicago Sanitary & Ship Canal	133	141	148	137	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	110	110	112	115	115	111	116	111	120	119	114
50	Burnham Avenue, Wolf Lake	104	96	96	101	98	102	106	102	109	156	104
55	130th Street, Calumet River	111	117	116	116	117	114	118	129	119	127	119
86	Burnham Avenue, Grand Calumet River	196	176	165	168	155	141	158	127	221	219	185
56	Indiana Avenue, Little Calumet River	127	138	126	127	129	129	130	133	146	149	151
76	Halsted Street, Little Calumet River	146	156	159	154	158	153	153	154	170	165	170
52	Wenworth Avenue, Little Calumet River	208	225	190	195	193	200	215	215	214	203	220
54	Joe Orr Road, Thorn Creek	158	183	195	172	175	203	216	223	238	262	215
97	170th Street, Thorn Creek	172	190	182	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	182	194	174	190	184	179	199	201	215	187	196
58	Ashland Avenue, Cal-Sag Channel	155	167	163	159	156	142	164	162	180	168	191
59	Cicero Avenue, Cal-Sag Channel	151	157	161	161	156	156	159	160	187	165	179
43	Route 83, Cal-Sag Channel	150	152	161	162	159	156	161	161	173	176	183
<u>Des Plaines River System</u>												
90	Route 18, Poplar Creek	185	209	207	196	239	230	182	213	230	211	191
63	Longmeadow Lane, West Branch DuPage River	118	ND	195	156	192	184	160	137	192	163	177
89	Walnut Lane, West Branch DuPage River	135	158	165	155	163	154	140	138	157	153	178
64	Lake Street, West Branch DuPage River	129	157	162	146	153	152	141	133	156	145	163
79	Higgins Road, Salt Creek	127	166	182	161	158	171	142	159	180	161	166
80	Arlington Heights Road, Salt Creek	133	151	147	136	166	145	140	150	160	254	160
18	Devon Avenue, Salt Creek	132	147	145	132	139	144	145	144	160	144	154
24	Wolf Road, Salt Creek	126	154	159	144	153	178	139	155	173	155	156
109	Brookfield Avenue, Salt Creek	125	128	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	185	161	150	150	161	140	148	178	162	150
77	Elmhurst Road, Higgins Creek	102	139	168	140	172	196	144	140	175	139	145
78	Wille Road, Higgins Creek	159	181	195	171	190	173	168	168	191	173	178
12	Lake-Cook Road, Buffalo Creek	170	222	210	174	188	206	189	191	219	195	214
13	Lake-Cook Road, Des Plaines River	168	214	210	191	253	207	184	196	221	197	190
17	Oakton Street, Des Plaines River	167	206	201	175	180	205	169	192	212	165	189
19	Belmont Avenue, Des Plaines River	155	192	203	172	177	199	176	188	211	192	195
20	Roosevelt Road, Des Plaines River	153	199	202	171	173	195	178	191	211	182	176
22	Ogden Avenue, Des Plaines River	155	181	190	160	164	185	167	179	200	168	165
23	Willow Springs Road, Des Plaines River	141	177	189	157	165	185	169	180	205	170	166
29	Stephen Street, Des Plaines River	149	181	188	165	166	184	176	180	192	175	187
91	Material Service Road, Des Plaines River	146	185	183	172	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-54

CHLORIDE MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	856	847	ND	ND	ND	198	182	116	247
106	Dundee Road, West Fork North Branch Chicago River	181	293	371	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	270	244	227	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	217	185	203	217	177	180	211	198	199	164	133
104	Glenview Road, North Branch Chicago River	215	171	177	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	220	190	218	242	185	183	250	215	172	167	165
105	Frontage Road, Skokie River	177	162	167	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	205	205	249	269	199	182	263	260	184	228	163
96	Albany Avenue, North Branch Chicago River	230	223	228	163	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	47	64	16	60	43	34	23	49	22	14	76
102	Oakton Street, North Shore Channel	80	99	36	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	143	105	152	150	154	110	116	115	149	125	84
101	Foster Avenue, North Shore Channel	123	111	121	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	159	133	192	202	193	133	178	139	178	130	203
73	Diversey Parkway, North Branch Chicago River	168	136	199	190	188	129	184	143	149	126	150
46	Grand Avenue, North Branch Chicago River	174	133	191	148	153	150	133	161	167	121	110
74	Lake Shore Drive, Chicago River	73	69	98	81	53	64	28	27	31	23	82
100	Wells Street, Chicago River	108	88	98	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	136	102	179	126	113	108	78	86	88	69	88
108	Loomis Street, South Branch Chicago River	137	122	96	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	134	127	117	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	137	ND	ND	134	107	136	98	122	84	99	94
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	122	138	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	150	130	148	124	106	149	105	114	114	98	120
41	Harlem Avenue, Chicago Sanitary & Ship Canal	149	124	170	166	155	143	137	130	136	116	107
42	Route 83, Chicago Sanitary & Ship Canal	156	144	203	139	171	147	157	145	138	137	107
48	Stephen Street, Chicago Sanitary & Ship Canal	160	156	202	126	139	149	155	158	132	137	130
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	225	151	134	153	124	155	152	153
92	Lockport Forebay, Chicago Sanitary & Ship Canal	166	151	187	179	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	35	40	59	51	42	31	23	24	27	27	35
50	Burnham Avenue, Wolf Lake	42	43	45	32	30	30	35	31	34	40	38
55	130th Street, Calumet River	64	68	93	74	67	53	57	57	58	55	74
86	Burnham Avenue, Grand Calumet River	176	200	180	177	198	192	190	267	259	222	178
56	Indiana Avenue, Little Calumet River	88	109	95	103	95	99	100	86	92	96	117
76	Halsted Street, Little Calumet River	133	127	162	150	139	122	136	163	132	127	138
52	Wentworth Avenue, Little Calumet River	179	189	137	155	143	109	136	119	128	151	136
54	Joe Orr Road, Thorn Creek	94	191	187	162	156	152	171	187	168	175	154
97	170th Street, Thorn Creek	217	194	163	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	193	173	168	190	171	139	185	151	164	132	131
58	Ashland Avenue, Cal-Sag Channel	155	147	167	164	131	101	191	135	131	129	155
59	Cicero Avenue, Cal-Sag Channel	150	145	167	168	136	136	166	139	132	129	145
43	Route 83, Cal-Sag Channel	142	144	179	168	130	135	143	145	126	153	166
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	201	220	229	143	157	199	197	209	175	156	139
63	Longmeadow Lane, West Branch DuPage River	154	ND	283	189	257	220	321	388	315	217	586
89	Walnut Lane, West Branch DuPage River	205	169	171	153	127	131	142	199	167	157	188
64	Lake Street, West Branch DuPage River	186	190	198	160	133	152	166	198	191	160	231
79	Higgins Road, Salt Creek	235	260	327	278	218	201	290	323	288	289	244
80	Arlington Heights Road, Salt Creek	241	213	234	219	177	178	235	256	195	212	198
18	Devon Avenue, Salt Creek	250	204	247	223	178	188	271	250	200	192	216
24	Wolf Road, Salt Creek	241	254	268	220	186	267	231	263	239	210	221
109	Brookfield Avenue, Salt Creek	208	135	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	654	260	213	184	216	214	253	241	204	221
77	Elmhurst Road, Higgins Creek	424	460	479	336	294	364	348	378	354	515	255
78	Wille Road, Higgins Creek	213	259	221	191	168	193	234	215	190	161	153
12	Lake-Cook Road, Buffalo Creek	229	189	302	194	153	174	207	240	197	206	223
13	Lake-Cook Road, Des Plaines River	202	188	158	152	184	151	154	171	145	148	105
17	Oakton Steet, Des Plaines River	202	224	182	141	137	151	167	194	155	147	128
19	Belmont Avenue, Des Plaines River	255	236	188	153	146	160	187	203	182	207	161
20	Roosevelt Road, Des Plaines River	173	265	190	157	146	160	193	200	180	184	159
22	Ogden Avenue, Des Plaines River	261	269	205	170	153	172	214	206	197	162	157
23	Willow Springs Road, Des Plaines River	197	226	204	177	160	178	191	201	178	166	149
29	Stephen Street, Des Plaines River	210	267	199	175	157	183	232	222	193	166	155
91	Material Service Road, Des Plaines River	200	251	198	202	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-55

TURBIDITY MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (NTU)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	25.5	81.0	ND	ND	ND	47.0	27.8	24.5	31.0
106	Dundee Road, West Fork North Branch Chicago River	32.2	19.2	24.6	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	16.9	20.7	18.5	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	13.1	16.6	22.3	16.8	19.7	14.6	18.3	24.6	24.7	19.4	35.7
104	Glenview Road, North Branch Chicago River	14.7	15.3	14.1	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	12.6	13.4	15.6	13.0	17.6	13.4	12.2	18.5	22.7	14.3	26.6
105	Frontage Road, Skokie River	12.0	12.5	12.9	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	14.5	18.0	18.1	18.5	20.2	21.2	20.2	18.3	23.3	17.3	25.8
96	Albany Avenue, North Branch Chicago River	14.1	14.5	13.3	11.0	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	8.2	10.6	10.3	11.8	9.1	8.7	10.3	10.8	12.6	9.5	13.0
102	Oakton Street, North Shore Channel	11.6	14.1	14.4	ND	ND	ND	ND	ND	ND	ND	ND
36	Tcuhy Avenue, North Shore Channel	7.1	8.1	6.7	8.1	7.5	6.8	7.0	8.4	9.1	6.7	5.8
101	Foster Avenue, North Shore Channel	8.0	9.5	8.7	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	9.2	11.3	11.4	9.7	10.1	8.7	9.5	10.2	10.3	10.2	8.1
73	Diversey Parkway, North Branch Chicago River	9.5	12.4	11.8	10.1	11.7	11.3	9.1	13.8	12.0	9.3	10.8
46	Grand Avenue, North Branch Chicago River	10.2	13.2	12.0	12.6	12.7	10.8	9.9	12.7	11.9	10.2	10.9
74	Lake Shore Drive, Chicago River	5.5	6.0	5.9	8.3	7.0	6.8	8.5	8.7	8.8	8.6	12.1
100	Wells Street, Chicago River	7.0	6.8	7.9	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	9.8	11.6	12.5	10.5	11.2	10.3	10.5	10.1	12.6	11.0	10.3
108	Loomis Street, South Branch Chicago River	9.1	10.0	12.6	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	9.3	10.4	12.5	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	10.3	ND	ND	12.7	11.2	10.6	11.2	11.4	19.1	9.8	10.3
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	11.0	12.9	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	10.5	10.6	13.6	12.8	13.8	10.8	11.8	11.1	11.8	11.0	10.1
41	Harlem Avenue, Chicago Sanitary & Ship Canal	7.2	8.3	8.5	9.3	9.7	7.2	8.9	8.8	9.5	12.2	7.3
42	Route 83, Chicago Sanitary & Ship Canal	8.0	8.6	8.0	8.2	7.8	9.5	8.3	7.7	10.2	10.1	6.3
48	Stephen Street, Chicago Sanitary & Ship Canal	9.9	9.9	10.4	11.1	9.4	11.7	11.9	13.2	16.8	11.8	10.3
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	9.5	10.0	11.4	11.5	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	6.9	7.5	9.8	10.6	9.8	9.8	9.5	10.5	10.5	9.1	7.3
50	Burnham Avenue, Wolf Lake	5.3	5.2	6.6	6.4	5.8	7.4	6.8	6.7	7.0	12.1	6.8
55	130th Street, Calumet River	7.8	9.4	10.8	13.5	8.0	9.4	10.7	9.7	10.5	12.1	7.4
86	Burnham Avenue, Grand Calumet River	9.4	9.3	10.0	12.5	11.1	8.4	10.5	35.5	19.5	14.6	16.1
56	Indians Avenue, Little Calumet River	16.8	18.9	17.9	15.8	14.7	13.0	17.5	27.1	25.0	27.5	24.9
76	Halsted Street, Little Calumet River	8.4	10.3	11.1	10.3	8.8	11.2	15.2	16.0	14.8	15.8	14.0
52	Wentworth Avenue, Little Calumet River	16.1	22.6	24.7	33.0	30.1	30.6	43.8	41.9	18.1	50.1	46.6
54	Joe Orr Road, Thorn Creek	29.4	8.0	10.3	22.0	10.4	14.8	14.5	12.8	9.5	16.0	36.5
97	170th Street, Thorn Creek	19.8	14.9	27.6	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	20.1	16.6	26.2	21.3	22.5	37.8	34.3	24.1	19.2	27.7	37.5
58	Ashland Avenue, Cal-Sag Channel	14.5	12.0	14.8	13.3	13.8	12.9	26.2	20.6	18.3	19.4	23.8
59	Cicero Avenue, Cal-Sag Channel	14.3	14.6	15.2	13.3	14.8	16.4	21.1	25.8	22.8	22.0	22.7
43	Route 83, Cal-Sag Channel	20.7	16.2	22.0	18.5	15.4	17.1	26.4	29.8	21.3	23.9	31.9
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	17.1	11.9	13.2	18.6	16.2	11.8	40.0	105.5	20.2	17.4	16.1
63	Longmeadow Lane, West Branch DuPage River	22.6	ND	20.3	21.8	17.7	14.6	21.3	39.5	43.9	17.9	25.0
89	Walnut Lane, West Branch DuPage River	10.2	7.5	9.0	13.5	12.4	7.0	11.4	26.8	25.8	12.7	16.5
64	Lake Street, West Branch DuPage River	19.0	18.6	21.3	27.6	22.0	19.7	25.8	38.5	36.2	24.4	27.4
79	Higgins Road, Salt Creek	30.3	24.6	22.5	29.4	23.7	21.1	33.5	61.8	25.2	22.0	32.8
80	Arlington Heights Road, Salt Creek	8.1	6.9	9.8	10.8	11.2	7.0	12.3	8.8	5.7	11.1	9.9
18	Devon Avenue, Salt Creek	9.6	9.2	11.8	15.6	15.7	9.7	18.2	14.5	11.1	14.4	11.9
24	Wolf Road, Salt Creek	22.6	13.8	17.2	22.6	20.7	13.7	31.5	25.9	27.2	28.6	24.3
109	Brookfield Avenue, Salt Creek	27.8	13.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	12.9	18.1	23.0	22.0	14.9	29.8	24.5	18.8	28.3	29.2
77	Elmhurst Road, Higgins Creek	23.0	22.2	18.8	27.7	22.1	17.3	23.5	77.4	85.8	69.6	37.6
78	Wille Road, Higgins Creek	7.1	6.9	7.3	7.2	5.4	7.9	7.8	17.5	22.4	18.6	7.8
12	Lake-Cook Road, Buffalo Creek	24.9	23.5	17.7	45.9	25.8	18.9	28.3	36.8	21.8	31.6	27.3
13	Lake-Cook Road, Des Plaines River	18.7	15.8	16.9	23.9	22.0	18.6	30.1	22.1	18.8	20.3	25.7
17	Oakton Street, Des Plaines River	21.7	15.6	18.4	27.5	24.5	23.6	39.9	24.2	25.9	33.3	26.5
19	Belmont Avenue, Des Plaines River	20.8	17.1	16.7	20.4	19.3	16.7	34.8	25.5	25.8	29.5	27.2
20	Roosevelt Road, Des Plaines River	21.3	16.1	16.9	22.3	19.8	17.3	32.2	23.3	22.8	24.7	32.8
22	Ogden Avenue, Des Plaines River	24.2	15.0	17.3	23.6	19.7	17.6	33.7	23.5	20.6	32.9	35.0
23	Willow Springs Road, Des Plaines River	19.6	15.8	22.9	26.0	22.5	23.7	30.6	29.4	26.2	34.1	29.6
29	Stephen Street, Des Plaines River	20.9	15.9	26.0	26.6	24.4	24.3	30.1	31.8	25.3	36.3	32.9
91	Material Service Road, Des Plaines River	22.4	16.9	24.7	24.5	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-56

ELECTRICAL CONDUCTIVITY MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (µmhos)</u>										
<u>No. Name</u>		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	1235	935	930	1109	1172	1034	982	993
92	Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
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, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
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
16	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

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-57

TOTAL KJELDAHL NITROGEN MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	1.32	2.18	ND	ND	ND	1.94	1.41	1.34	2.58
106	Dundee Road, West Fork North Branch Chicago River	1.88	1.52	2.16	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	1.25	2.01	1.50	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	1.24	1.26	1.34	1.67	1.13	0.98	1.22	1.05	1.10	1.29	1.02
104	Glenview Road, North Branch Chicago River	1.33	1.21	1.43	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.97	1.18	1.17	1.09	1.02	0.80	1.16	1.10	1.11	1.14	0.99
105	Frontage Road, Skokie River	1.16	1.26	1.36	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	1.12	1.58	1.71	1.45	1.21	1.03	1.47	1.43	1.16	1.45	1.32
96	Albany Avenue, North Branch Chicago River	1.17	1.40	1.96	1.60	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.84	1.02	0.63	1.05	1.27	0.76	0.38	2.25	0.52	0.38	0.79
102	Oakton Street, North Shore Channel	1.91	1.81	1.10	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	2.75	2.60	2.66	2.65	2.48	2.08	2.83	4.17	2.87	3.28	2.29
101	Foster Avenue, North Shore Channel	3.02	2.98	2.70	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	2.63	2.60	2.66	3.10	3.34	2.20	2.93	4.17	3.03	3.36	3.07
73	Diversey Parkway, North Branch Chicago River	2.39	2.33	2.43	2.52	2.20	1.58	2.44	3.37	2.06	2.35	2.32
46	Grand Avenue, North Branch Chicago River	2.16	2.51	2.34	2.40	2.18	1.94	2.27	3.06	2.93	2.83	2.43
74	Lake Shore Drive, Chicago River	0.73	0.67	1.01	1.10	0.63	0.43	0.50	0.43	0.34	0.36	0.42
100	Wells Street, Chicago River	1.59	1.10	1.08	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	2.35	2.46	1.94	2.36	1.75	1.67	1.36	1.72	1.27	1.38	1.56
108	Loomis Street, South Branch Chicago River	1.69	2.03	1.60	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	2.07	2.62	3.35	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	1.97	ND	ND	2.31	1.80	1.31	1.85	2.03	1.44	2.01	1.62
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	2.20	2.02	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	1.96	2.15	1.92	1.99	1.64	1.48	1.51	2.31	2.07	2.00	1.72
41	Harlem Avenue, Chicago Sanitary & Ship Canal	1.51	1.68	1.91	1.72	1.43	1.50	2.05	2.86	2.44	2.14	1.86
42	Route 83, Chicago Sanitary & Ship Canal	1.62	1.97	1.94	1.65	1.70	1.86	2.48	2.80	2.40	2.80	1.98
48	Stephen Street, Chicago Sanitary & Ship Canal	1.57	1.91	1.87	1.93	1.71	1.49	2.05	2.49	2.75	3.07	2.12
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	1.96	1.77	1.71	1.90	2.26	2.30	2.32	2.55
92	Lockport Forebay, Chicago Sanitary & Ship Canal	1.58	1.66	1.86	1.83	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.23	0.35	0.41	0.51	0.59	0.48	0.37	0.76	0.43	0.52	0.37
50	Burnham Avenue, Wolf Lake	0.52	0.49	0.62	0.73	0.47	0.55	0.72	0.68	0.61	0.89	0.64
55	130th Street, Calumet River	0.58	0.71	0.85	0.66	0.69	0.49	0.51	0.67	0.62	0.67	0.82
86	Burnham Avenue, Grand Calumet River	3.85	2.89	2.58	4.32	3.34	2.10	1.98	6.36	6.16	8.14	3.77
56	Indiana Avenue, Little Calumet River	1.02	1.02	1.05	1.01	1.10	1.00	1.20	1.74	1.76	2.99	2.59
76	Walstec Street, Little Calumet River	1.16	1.39	1.58	1.50	1.38	1.27	1.66	2.66	3.11	4.06	3.55
52	Wentworth Avenue, Little Calumet River	1.58	1.58	1.73	2.03	2.39	2.65	1.53	1.76	1.27	1.80	1.49
54	Joe Orr Road, Thorn Creek	1.19	1.47	1.53	1.92	1.43	1.23	1.38	2.02	1.60	2.77	2.33
97	170th Street, Thorn Creek	1.28	1.46	1.58	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1.23	1.42	1.60	1.46	1.44	1.42	1.40	1.42	1.74	2.15	1.79
58	Ashland Avenue, Cal-Sag Channel	1.22	1.35	1.55	1.50	1.37	1.11	1.62	1.83	2.78	3.08	2.42
59	Cicero Avenue, Cal-Sag Channel	1.26	1.49	1.67	2.22	1.46	1.37	1.83	2.27	1.74	3.89	3.50
43	Route 83, Cal-Sag Channel	1.32	1.50	1.94	1.45	1.42	1.25	1.92	2.49	3.18	3.86	3.27
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	1.03	0.87	1.03	1.31	1.78	0.74	1.22	1.14	1.10	1.09	1.16
63	Longmeadow Lane, West Branch DuPage River	1.93	ND	1.88	1.66	1.81	1.66	1.82	2.19	1.92	1.78	1.35
89	Walnut Lane, West Branch DuPage River	2.28	1.83	2.30	2.37	2.64	2.34	2.12	2.12	1.97	2.00	2.25
64	Lake Street, West Branch DuPage River	2.37	2.05	2.53	2.70	2.25	2.52	2.42	2.24	2.10	2.10	2.25
79	Higgins Road, Salt Creek	1.47	1.60	1.49	1.82	1.17	1.31	1.36	1.27	1.52	1.38	1.32
80	Arlington Heights Road, Salt Creek	1.84	1.83	1.64	1.74	1.46	1.45	1.58	1.55	1.66	1.49	1.13
18	Devon Avenue, Salt Creek	1.86	1.87	1.74	1.73	1.47	1.33	1.51	1.86	1.91	1.60	1.17
24	Wolf Road, Salt Creek	1.48	1.44	1.52	1.61	1.23	1.12	1.56	1.84	1.67	1.60	1.37
109	Brookfield Avenue, Salt Creek	1.48	1.41	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	1.56	1.39	1.62	1.42	1.05	1.50	1.47	1.43	1.58	1.46
77	Elmhurst Road, Higgins Creek	1.40	1.31	1.34	1.41	1.29	0.82	0.92	1.23	1.21	1.49	1.00
78	Willie Road, Higgins Creek	1.49	1.65	1.85	2.35	1.74	1.37	2.10	1.44	1.66	1.75	1.56
12	Lake-Cook Road, Buffalo Creek	1.41	1.52	1.22	1.49	1.12	0.98	1.23	1.29	1.19	1.40	1.64
13	Lake-Cook Road, Des Plaines River	1.51	1.78	1.48	1.82	1.22	1.26	1.33	1.12	1.25	1.72	1.47
17	Oakton Street, Des Plaines River	1.54	1.52	1.55	1.58	1.18	1.24	1.36	1.49	1.66	1.26	1.28
19	Belmont Avenue, Des Plaines River	1.66	1.42	1.66	2.27	1.13	1.26	1.54	1.58	1.72	1.96	1.36
20	Roosevelt Road, Des Plaines River	1.65	1.35	1.56	1.57	1.14	1.29	1.58	1.58	1.51	1.70	1.32
22	Ogden Avenue, Des Plaines River	2.00	1.36	1.60	1.49	1.11	1.48	1.75	1.52	1.49	1.68	1.49
23	Willow Springs Road, Des Plaines River	1.26	1.57	1.69	1.67	1.08	1.39	1.39	1.57	1.48	1.76	1.35
29	Stephen Street, Des Plaines River	1.92	1.50	1.87	1.35	1.15	1.52	1.67	1.62	1.85	1.95	1.43
91	Material Service Road, Des Plaines River	1.62	1.49	1.63	1.63	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-58

AMMONIUM NITROGEN MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.300	0.470	ND	ND	ND	0.238	0.209	0.165	1.358
106	Dundee Road, West Fork North Branch Chicago River	0.327	0.145	0.445	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.215	0.797	0.277	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.178	0.124	0.139	0.169	0.038	0.048	0.109	0.074	0.134	0.165	0.109
104	Glenview Road, North Branch Chicago River	0.113	0.086	0.103	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.221	0.110	0.190	0.187	0.077	0.083	0.091	0.184	0.189	0.129	0.150
105	Frontage Road, Skokie River	0.103	0.058	0.100	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.167	0.361	0.336	0.158	0.039	0.064	0.099	0.224	0.125	0.201	0.275
96	Albany Avenue, North Branch Chicago River	0.153	0.241	0.477	0.413	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Branch Channel	0.331	0.313	0.183	0.301	0.348	0.413	0.020	1.197	0.127	0.073	0.375
102	Oakton Street, North Shore Channel	0.930	0.696	0.376	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	1.548	0.987	1.063	1.273	0.921	0.911	1.470	2.474	1.576	1.660	1.199
101	Foster Avenue, North Shore Channel	1.828	1.428	1.185	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	1.365	1.153	1.083	1.653	1.772	1.158	1.701	2.609	1.663	2.014	2.156
73	Diversley Parkway, North Branch Chicago River	1.197	0.959	0.863	1.227	0.883	0.583	1.368	1.923	1.016	1.078	1.287
46	Grand Avenue, North Branch Chicago River	1.216	1.171	0.968	1.201	0.954	0.992	1.272	1.799	1.706	1.626	1.578
74	Lake Shore Drive, Chicago River	0.348	0.238	0.413	0.372	0.215	0.137	0.067	0.153	0.109	0.080	0.114
100	Wells Street, Chicago River	0.798	0.500	0.462	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	1.270	1.142	0.879	0.906	0.822	0.538	0.607	0.837	0.642	0.753	0.994
108	Loomis Street, South Branch Chicago River	0.819	0.988	0.587	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	1.062	1.123	1.715	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.969	ND	ND	1.116	0.847	0.524	0.920	1.090	0.585	1.183	0.984
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.968	0.878	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.941	0.869	0.769	0.843	0.793	0.403	0.721	1.256	1.036	1.128	0.983
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.499	0.534	0.754	0.438	0.357	0.495	0.716	1.318	1.217	0.925	0.893
42	Route 83, Chicago Sanitary & Ship Canal	0.643	0.655	0.756	0.630	0.604	0.636	1.184	1.416	1.193	1.460	1.183
48	Stephen Street, Chicago Sanitary & Ship Canal	0.598	0.718	0.721	0.692	0.601	0.486	0.858	1.281	1.352	1.606	1.161
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	0.619	0.449	0.343	0.444	0.614	0.809	0.731	1.031
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.588	0.502	0.654	0.595	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.124	0.063	0.108	0.113	0.056	0.044	0.010	0.051	0.077	0.050	0.082
50	Burnham Avenue, Wolf Lake	0.118	0.018	0.087	0.092	0.056	0.018	0.003	0.045	0.045	0.072	0.051
55	130th Street, Calumet River	0.249	0.098	0.214	0.195	0.124	0.114	0.083	0.162	0.135	0.184	0.223
86	Burnham Avenue, Grand Calumet River	1.735	0.952	0.934	1.586	1.059	0.417	0.632	3.459	3.950	4.840	1.738
56	Indiana Avenue, Little Calumet River	0.317	0.115	0.127	0.307	0.276	0.307	0.396	0.755	0.919	1.889	1.507
76	Halsted Street, Little Calumet River	0.268	0.188	0.355	0.332	0.332	0.348	0.488	2.430	1.912	2.503	2.339
52	Wentworth Avenue, Little Calumet River	0.319	0.230	0.274	0.278	0.297	0.161	0.181	0.201	0.197	0.287	0.368
54	Joe Orr Road, Thorn Creek	0.127	0.116	0.110	0.380	0.057	0.034	0.124	0.734	0.324	1.084	1.017
97	170th Street, Thorn Creek	0.248	0.253	0.275	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.330	0.182	0.248	0.295	0.232	0.183	0.204	0.212	0.629	0.798	0.756
58	Ashland Avenue, Cal-Sag Channel	0.294	0.186	0.415	0.374	0.346	0.291	0.484	0.962	1.601	1.668	1.363
59	Cicero Avenue, Cal-Sag Channel	0.256	0.252	0.448	0.490	0.406	0.336	0.526	1.011	2.458	2.418	2.353
43	Route 83, Cal-Sag Channel	0.260	0.317	0.513	0.336	0.375	0.309	0.659	0.892	2.032	2.311	2.033
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.149	0.034	0.105	0.106	0.067	0.075	0.074	0.073	0.047	0.079	0.054
63	Longmeadow Lane, West Branch DuPage River	0.240	ND	0.305	0.154	0.131	0.135	0.225	0.368	0.196	0.160	0.151
89	Walnut Lane, West Branch DuPage River	0.482	0.117	0.294	0.341	0.367	0.192	0.191	0.258	0.145	0.104	0.653
64	Lake Street, West Branch DuPage River	0.596	0.287	0.460	0.645	0.421	0.601	0.415	0.387	0.228	0.232	0.643
79	Higgins Road, Salt Creek	0.214	0.090	0.106	0.172	0.067	0.118	0.076	0.156	0.226	0.075	0.107
80	Arlington Heights Road, Salt Creek	0.465	0.299	0.192	0.145	0.090	0.178	0.137	0.285	0.246	0.195	0.106
18	Devon Avenue, Salt Creek	0.501	0.360	0.228	0.161	0.093	0.243	0.132	0.358	0.206	0.199	0.113
24	Wolf Road, Salt Creek	0.241	0.218	0.171	0.196	0.127	0.155	0.131	0.208	0.160	0.153	0.106
109	Brookfield Avenue, Salt Creek	0.211	0.178	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.347	0.160	0.192	0.105	0.134	0.121	0.207	0.120	0.145	0.196
77	Elmhurst Road, Higgins Creek	0.240	0.107	0.187	0.134	0.116	0.158	0.107	0.186	0.192	0.238	0.147
78	Willie Road, Higgins Creek	0.331	0.211	0.250	0.396	0.245	0.297	0.515	0.151	0.259	0.355	0.370
12	Lake-Cook Road, Buffalo Creek	0.186	0.117	0.108	0.134	0.071	0.088	0.056	0.092	0.067	0.097	0.087
13	Lake-Cook Road, Des Plaines River	0.162	0.091	0.104	0.143	0.108	0.177	0.083	0.127	0.436	0.198	0.236
17	Oakton Street, Des Plaines River	0.150	0.071	0.093	0.107	0.075	0.100	0.075	0.108	0.103	0.210	0.150
19	Belmont Avenue, Des Plaines River	0.198	0.118	0.157	0.177	0.116	0.223	0.171	0.184	0.276	0.300	0.199
20	Roosevelt Road, Des Plaines River	0.166	0.097	0.140	0.145	0.093	0.183	0.205	0.136	0.135	0.219	0.208
22	Ogden Avenue, Des Plaines River	0.144	0.107	0.127	0.150	0.089	0.128	0.190	0.142	0.092	0.158	0.210
23	Willow Springs Road, Des Plaines River	0.162	0.072	0.134	0.160	0.089	0.175	0.080	0.101	0.090	0.168	0.196
29	Stephen Street, Des Plaines River	0.166	0.100	0.121	0.146	0.077	0.151	0.128	0.150	0.330	0.182	0.172
91	Material Service Road, Des Plaines River	0.161	0.057	0.115	0.140	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-59

UN-IONIZED AMMONIA MEAN HISTORY THROUGH 2003

Sampling Station		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.001	0.004	ND	ND	ND	0.007	0.009	0.020	0.007
106	Dundee Road, West Fork North Branch Chicago River	0.006	0.001	0.007	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.003	0.008	0.007	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.003	0.001	0.002	0.006	0.001	0.002	0.002	0.003	0.005	0.002	0.003
104	Glenview Road, North Branch Chicago River	0.003	0.001	0.003	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.003	0.001	0.003	0.007	0.002	0.001	0.002	0.016	0.014	0.003	0.002
105	Frontage Road, Skokie River	0.001	0.001	0.004	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.002	0.003	0.003	0.005	0.001	0.001	0.003	0.003	0.003	0.001	0.003
96	Albany Avenue, North Branch Chicago River	0.002	0.004	0.007	0.004	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.003	0.008	0.004	0.020	0.008	0.030	0.022	0.022	0.009	0.011	0.004
102	Oakton Street, North Shore Channel	0.007	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.009	0.013	0.007	0.051	0.021	0.035	0.027	0.035	0.017	0.029	0.017
101	Foster Avenue, North Shore Channel	0.007	0.011	0.006	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.017	0.010	0.011	0.058	0.033	0.052	0.050	0.045	0.015	0.030	0.012
73	Diversey Parkway, North Branch Chicago River	0.008	0.007	0.003	0.037	0.015	0.082	0.053	0.095	0.012	0.009	0.035
46	Grand Avenue, North Branch Chicago River	0.010	0.011	0.004	0.017	0.023	0.049	0.009	0.017	0.017	0.029	0.017
74	Lake Shore Drive, Chicago River	0.002	0.002	0.008	0.005	0.005	0.007	0.003	0.002	0.001	0.004	0.003
100	Wells Street, Chicago River	0.004	0.003	0.010	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.006	0.007	0.008	0.011	0.051	0.023	0.007	0.010	0.007	0.006	0.017
108	Loomis Street, South Branch Chicago River	0.007	0.014	0.004	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.008	0.010	0.018	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.007	ND	ND	0.012	0.026	0.081	0.013	0.015	0.006	0.035	0.009
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.009	0.006	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.008	0.019	0.005	0.007	0.031	0.051	0.051	0.022	0.005	0.029	0.007
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.003	0.005	0.006	0.006	0.021	0.010	0.016	0.004	0.010	0.009
42	Route 83, Chicago Sanitary & Ship Canal	0.003	0.004	0.004	0.006	0.019	0.031	0.016	0.016	0.008	0.021	0.013
48	Stephen Street, Chicago Sanitary & Ship Canal	0.003	0.005	0.004	0.006	0.015	0.020	0.009	0.017	0.028	0.060	0.033
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.006	0.005	0.004	0.008	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.002	0.002	0.002	0.005	0.003	0.003	0.000	0.006	0.001	0.001	0.001
50	Burnham Avenue, Wolf Lake	0.008	0.001	0.003	0.005	0.003	0.001	0.000	0.004	0.001	0.001	0.000
55	130th Street, Calumet River	0.006	0.004	0.002	0.004	0.005	0.005	0.001	0.032	0.009	0.005	0.002
86	Burnham Avenue, Grand Calumet River	0.048	0.024	0.009	0.048	0.028	0.009	0.003	0.120	0.028	0.031	0.019
56	Indiana Avenue, Little Calumet River	0.004	0.002	0.004	0.024	0.012	0.014	0.006	0.062	0.033	0.012	0.008
76	Halsted Street, Little Calumet River	0.002	0.002	0.002	0.005	0.009	0.007	0.017	0.011	0.032	0.025	0.025
52	Wentworth Avenue, Little Calumet River	0.005	0.003	0.003	0.011	0.007	0.010	0.003	0.052	0.019	0.005	0.006
54	Joe Orr Road, Thorn Creek	0.001	0.001	0.001	0.006	0.005	0.001	0.010	0.006	0.006	0.032	0.047
97	170th Street, Thorn Creek	0.003	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.004	0.002	0.002	0.003	0.012	0.007	0.020	0.003	0.007	0.004	0.006
58	Ashland Avenue, Cal-Sag Channel	0.003	0.002	0.003	0.004	0.012	0.021	0.020	0.006	0.024	0.055	0.023
59	Cicero Avenue, Cal-Sag Channel	0.003	0.001	0.006	0.003	0.015	0.012	0.022	0.022	0.030	0.024	0.030
43	Route 83, Cal-Sag Channel	0.004	0.001	0.009	0.003	0.030	0.023	0.043	0.009	0.017	0.019	0.013
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.002	0.001	0.001	0.007	0.004	0.003	0.002	0.002	0.001	0.001	0.002
63	Longmeadow Lane, West Branch DuPage River	0.003	ND	0.002	0.011	0.003	0.014	0.003	0.036	0.007	0.003	0.008
69	Walnut Lane, West Branch DuPage River	0.004	0.001	0.004	0.038	0.018	0.006	0.002	0.015	0.004	0.002	0.003
64	Lake Street, West Branch DuPage River	0.005	0.006	0.006	0.148	0.018	0.035	0.008	0.020	0.005	0.006	0.007
79	Higgins Road, Salt Creek	0.002	0.004	0.001	0.024	0.007	0.011	0.002	0.005	0.044	0.003	0.005
80	Arlington Heights Road, Salt Creek	0.004	0.002	0.002	0.024	0.003	0.008	0.010	0.005	0.014	0.006	0.002
18	Devon Avenue, Salt Creek	0.005	0.002	0.011	0.029	0.003	0.011	0.003	0.004	0.007	0.002	0.002
24	Wolf Road, Salt Creek	0.002	0.003	0.003	0.004	0.012	0.003	0.003	0.008	0.005	0.015	0.002
109	Brookfield Avenue, Salt Creek	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.001	0.002	0.002	0.013	0.003	0.002	0.006	0.001	0.003	0.002
77	Elmhurst Road, Higgins Creek	0.003	0.001	0.004	0.004	0.016	0.005	0.003	0.006	0.012	0.007	0.003
78	Wille Road, Higgins Creek	0.005	0.001	0.005	0.006	0.022	0.007	0.059	0.006	0.014	0.011	0.007
12	Lake-Cook Road, Buffalo Creek	0.003	0.005	0.002	0.012	0.004	0.007	0.001	0.003	0.004	0.001	0.006
13	Lake-Cook Road, Des Plaines River	0.002	0.002	0.002	0.014	0.007	0.011	0.002	0.012	0.009	0.009	0.014
17	Oakton Street, Des Plaines River	0.003	0.001	0.002	0.002	0.016	0.002	0.002	0.005	0.008	0.013	0.002
19	Belmont Avenue, Des Plaines River	0.004	0.001	0.003	0.002	0.017	0.005	0.005	0.007	0.007	0.009	0.001
20	Roosevelt Road, Des Plaines River	0.004	0.001	0.002	0.004	0.014	0.003	0.002	0.005	0.004	0.006	0.001
22	Ogden Avenue, Des Plaines River	0.001	0.001	0.002	0.001	0.011	0.003	0.027	0.004	0.001	0.008	0.004
23	Willow Springs Road, Des Plaines River	0.003	0.001	0.002	0.004	0.010	0.004	0.003	0.007	0.006	0.014	0.004
29	Stephen Street, Des Plaines River	0.003	0.002	0.002	0.005	0.010	0.005	0.004	0.011	0.022	0.014	0.003
91	Material Service Road, Des Plaines River	0.003	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-60

ORGANIC NITROGEN MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	1.02	1.71	ND	ND	ND	1.70	1.40	1.17	1.22
106	Dundee Road, West Fork North Branch Chicago River	1.56	1.38	1.71	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	1.04	1.21	1.22	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	1.06	1.14	1.20	1.50	1.09	0.93	1.11	0.98	0.97	1.12	0.91
104	Glanview Road, North Branch Chicago River	1.22	1.12	1.33	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.75	1.07	0.98	0.91	0.95	0.72	1.07	0.92	0.92	1.01	0.84
105	Frontage Road, Skokie River	1.05	1.20	1.26	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.95	1.22	1.38	1.29	1.17	0.97	1.37	1.20	1.04	1.25	1.05
96	Albany Avenue, North Branch Chicago River	1.01	1.15	1.48	1.19	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.51	0.71	0.44	0.75	0.92	0.42	0.36	1.06	0.39	0.31	0.41
102	Oakton Street, North Shore Channel	0.98	1.11	0.73	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	1.21	1.61	1.60	1.37	1.56	1.17	1.36	1.70	1.29	1.62	1.09
101	Foster Avenue, North Shore Channel	1.19	1.55	1.52	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	1.27	1.45	1.57	1.45	1.56	1.04	1.23	1.56	1.37	1.35	0.92
73	Diversey Parkway, North Branch Chicago River	1.20	1.37	1.57	1.30	1.31	1.00	1.07	1.45	1.02	1.27	1.04
46	Grand Avenue, North Branch Chicago River	0.94	1.34	1.37	1.20	1.23	0.95	0.99	1.26	1.23	1.21	0.85
74	Lake Shore Drive, Chicago River	0.38	0.43	0.59	0.73	0.41	0.31	0.44	0.28	0.23	0.28	0.30
100	Wells Street, Chicago River	0.79	0.60	0.61	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	1.08	1.32	1.06	1.46	0.93	1.13	0.76	0.88	0.63	0.59	0.57
108	Loomis Street, South Branch Chicago River	0.87	1.04	1.01	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	1.01	1.50	1.64	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	1.00	ND	ND	1.20	0.95	0.79	0.93	0.94	0.85	0.83	0.64
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	1.23	1.14	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	1.02	1.28	1.15	1.14	0.85	1.07	0.87	1.05	1.04	0.88	0.74
41	Harlem Avenue, Chicago Sanitary & Ship Canal	1.01	1.15	1.16	1.28	1.07	1.01	1.33	1.54	1.22	1.21	0.97
42	Route 83, Chicago Sanitary & Ship Canal	0.98	1.31	1.18	1.02	1.09	1.22	1.30	1.38	1.21	1.34	0.80
48	Stephen Street, Chicago Sanitary & Ship Canal	0.98	1.19	1.15	1.24	1.11	1.00	1.19	1.21	1.40	1.36	0.96
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	1.35	1.33	1.37	1.45	1.64	0.63	1.62	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.99	1.16	1.21	1.24	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.12	0.29	0.30	0.40	0.57	0.44	0.36	0.71	0.35	0.47	0.29
50	Burnham Avenue, Wolf Lake	0.40	0.47	0.53	0.64	0.46	0.53	0.72	0.63	0.56	0.82	0.58
55	130th Street, Calumet River	0.33	0.61	0.64	0.46	0.56	0.38	0.43	0.51	0.49	0.48	0.49
86	Burnham Avenue, Grand Calumet River	2.12	1.94	1.64	2.73	2.29	1.69	1.35	2.90	2.21	3.30	2.04
56	Indiana Avenue, Little Calumet River	0.69	0.90	0.92	0.70	0.82	0.69	0.80	0.99	0.86	1.10	1.09
76	Halsted Street, Little Calumet River	0.89	1.20	1.23	1.17	1.05	0.92	1.17	1.41	1.20	1.55	1.21
52	Wentworth Avenue, Little Calumet River	1.26	1.35	1.46	1.75	2.09	2.49	1.35	1.55	1.08	1.51	1.13
54	Joe Orr Road, Thorn Creek	1.06	1.36	1.42	1.54	1.37	1.19	1.25	1.43	1.27	1.69	1.31
97	170th Street, Thorn Creek	1.03	1.21	1.30	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.90	1.24	1.35	1.16	1.21	1.24	1.20	1.21	1.12	1.36	1.03
58	Ashland Avenue, Cal-Sag Channel	0.93	1.16	1.13	1.12	1.03	0.82	1.13	1.18	1.30	1.41	1.06
59	Cicero Avenue, Cal-Sag Channel	1.01	1.24	1.22	1.73	1.06	1.04	1.31	1.26	1.28	1.47	1.14
43	Route 83, Cal-Sag Channel	1.06	1.19	1.43	1.12	1.05	0.94	1.26	1.60	1.15	1.55	1.24
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.88	0.83	0.92	1.20	1.71	0.66	1.14	1.07	1.05	1.01	1.11
63	Longmeadow Lane, West Branch DuPage River	1.69	ND	1.58	1.50	1.68	1.52	1.60	1.82	1.72	1.62	1.20
89	Walnut Lane, West Branch DuPage River	1.79	1.71	2.00	2.03	2.27	2.15	1.93	1.86	1.83	1.90	1.60
64	Lake Street, West Branch DuPage River	1.77	1.77	2.07	2.06	1.63	1.92	2.01	1.85	1.87	1.86	1.60
79	Higgins Road, Salt Creek	1.25	1.51	1.38	1.65	1.11	1.19	1.29	1.11	1.44	1.30	1.21
80	Arlington Heights Road, Salt Creek	1.37	1.53	1.45	1.60	1.37	1.27	1.44	1.38	1.41	1.29	1.02
18	Devon Avenue, Salt Creek	1.36	1.51	1.52	1.57	1.38	1.09	1.37	1.66	1.70	1.40	1.06
24	Wolf Road, Salt Creek	1.23	1.23	1.35	1.41	1.10	0.97	1.43	1.81	1.51	1.54	1.26
109	Brookfield Avenue, Salt Creek	1.27	1.23	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	1.22	1.23	1.43	1.32	0.92	1.38	1.39	1.31	1.43	1.27
77	Elmhurst Road, Higgins Creek	1.16	1.20	1.16	1.28	1.17	0.66	0.81	1.04	1.12	1.25	0.85
78	Wille Road, Higgins Creek	1.16	1.44	1.60	1.95	1.50	1.07	1.58	1.29	1.40	1.40	1.19
12	Lake-Cook Road, Buffalo Creek	1.22	1.40	1.11	1.36	1.04	0.90	1.18	1.20	1.04	1.30	1.56
13	Lake-Cook Road, Des Plaines River	1.35	1.69	1.38	1.68	1.12	1.08	1.25	1.00	1.17	1.52	1.24
17	Oakton Steet, Des Plaines River	1.39	1.45	1.45	1.48	1.11	1.14	1.28	1.38	1.56	1.05	1.13
19	Belmont Avenue, Des Plaines River	1.47	1.30	1.51	2.09	1.01	1.03	1.37	1.40	1.45	1.66	1.16
20	Roosevelt Road, Des Plaines River	1.48	1.25	1.42	1.43	1.04	1.10	1.38	1.44	1.37	1.48	1.11
22	Ogden Avenue, Des Plaines River	1.86	1.26	1.47	1.34	1.02	1.35	1.56	1.37	1.40	1.52	1.28
23	Willow Springs Road, Des Plaines River	1.10	1.50	1.56	1.51	0.99	1.22	1.31	1.47	1.40	1.59	1.16
29	Stephen Street, Des Plaines River	1.35	1.40	1.74	1.20	1.08	1.36	1.54	1.47	1.52	1.77	1.26
91	Material Service Road, Des Plaines River	1.45	1.44	1.51	1.49	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-61

NITRITE PLUS NITRATE NITROGEN MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	2.60	7.57	ND	ND	ND	9.14	7.84	13.94	4.30
106	Dundee Road, West Fork North Branch Chicago River	5.27	4.00	5.14	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	2.97	4.03	3.11	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.35	0.38	0.37	0.35	0.41	0.51	0.43	0.37	0.47	0.38	0.42
104	Glenview Road, North Branch Chicago River	3.81	4.67	3.22	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	1.07	0.46	0.46	0.52	0.55	0.58	0.80	0.50	0.68	1.03	0.86
105	Frontage Road, Skokie River	6.42	5.83	3.87	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	5.10	4.57	2.65	4.51	4.93	3.85	5.13	5.01	3.39	4.44	3.44
96	Albany Avenue, North Branch Chicago River	4.24	4.24	3.05	5.37	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	1.00	0.34	0.28	0.29	0.32	0.22	0.25	0.20	0.24	0.25	0.55
102	Oakton Street, North Shore Channel	2.25	3.66	1.27	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	5.90	5.58	5.57	5.59	5.67	5.74	5.56	4.85	4.16	4.39	5.02
101	Foster Avenue, North Shore Channel	6.72	6.11	6.69	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	6.50	5.84	5.94	6.17	6.28	6.38	5.87	5.61	4.99	4.51	4.91
73	Diversey Parkway, North Branch Chicago River	6.02	5.29	5.48	5.49	6.23	5.46	5.16	5.44	4.51	5.17	4.42
46	Grand Avenue, North Branch Chicago River	5.86	5.47	4.86	5.63	5.51	5.27	4.74	4.92	4.71	4.03	3.60
74	Lake Shore Drive, Chicago River	1.38	1.38	1.93	1.84	1.08	0.96	0.39	0.42	0.31	0.35	0.40
100	Wells Street, Chicago River	3.41	2.31	2.33	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	5.19	4.37	3.61	4.28	4.33	3.41	2.39	2.58	2.19	2.04	2.40
108	Loonis Street, South Branch Chicago River	4.40	4.27	3.45	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	4.52	3.55	2.55	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	4.73	ND	ND	4.42	3.42	3.21	2.84	2.75	2.47	2.56	2.46
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	4.24	3.27	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	4.49	4.30	3.54	4.30	3.58	3.04	2.89	2.54	2.52	2.34	2.37
41	Harlem Avenue, Chicago Sanitary & Ship Canal	7.84	6.81	6.26	7.00	7.01	6.97	6.18	6.83	5.52	5.51	4.95
42	Route 83, Chicago Sanitary & Ship Canal	7.17	6.24	5.61	5.84	5.80	5.64	5.57	6.37	4.90	4.11	4.19
48	Stephen Street, Chicago Sanitary & Ship Canal	6.36	5.77	5.27	5.15	5.10	5.10	5.07	5.20	4.43	3.84	3.86
82	Lockport Trolley, Chicago Sanitary & Ship Canal	ND	ND	ND	6.13	4.87	4.48	4.59	5.11	4.66	4.00	4.03
92	Lockport Forebay, Chicago Sanitary & Ship Canal	6.24	5.94	5.31	5.52	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.35	0.50	0.46	0.38	0.36	0.34	0.31	0.33	0.28	0.28	0.33
50	Burnham Avenue, Wolf Lake	0.09	0.10	0.16	0.09	0.78	0.12	0.23	0.16	0.10	0.09	0.15
55	130th Street, Calumet River	0.48	0.57	0.67	0.56	0.53	0.48	0.52	0.48	0.39	0.48	0.64
86	Burnham Avenue, Grand Calumet River	5.91	8.56	9.06	8.48	8.48	12.32	11.89	8.16	6.74	3.72	6.23
56	Indiana Avenue, Little Calumet River	1.78	2.39	1.95	1.86	1.79	3.18	4.04	1.64	1.04	1.04	2.19
76	Halsted Street, Little Calumet River	4.57	5.36	4.80	4.32	4.27	4.14	4.55	3.55	2.55	2.55	3.15
52	Wentworth Avenue, Little Calumet River	4.16	5.39	3.32	4.18	4.53	3.82	3.75	4.20	3.89	3.76	2.62
54	Joe Orr Road, Thorn Creek	7.67	9.86	6.81	7.92	7.68	6.80	6.79	7.59	8.58	8.76	6.95
97	170th Street, Thorn Creek	6.76	7.13	4.04	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	4.01	4.35	3.07	4.31	3.71	2.82	3.64	3.56	3.65	3.61	2.56
58	Ashland Avenue, Cal-Sag Channel	4.57	5.39	4.57	4.22	3.32	3.59	3.78	3.34	2.53	2.39	2.60
59	Cicero Avenue, Cal-Sag Channel	4.48	5.39	4.26	4.26	3.40	3.78	3.91	3.26	2.39	2.32	2.62
43	Route 83, Cal-Sag Channel	4.11	4.67	4.25	4.20	3.37	3.50	3.97	3.33	2.76	2.40	2.56
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.61	0.28	0.49	0.39	0.46	0.44	1.81	0.47	0.34	0.45	0.44
63	Longmeadow Lane, West Branch DuPage River	1.74	ND	1.32	0.63	2.88	2.57	2.13	1.84	1.73	3.56	1.02
89	Walnut Lane, West Branch DuPage River	7.58	7.13	7.24	6.98	8.01	8.34	8.89	7.91	8.58	10.73	5.71
64	Lake Street, West Branch DuPage River	7.32	6.70	6.79	5.78	6.86	8.52	7.87	8.24	8.72	9.83	5.33
79	Higgins Road, Salt Creek	0.45	0.23	0.28	0.47	0.26	0.51	0.29	0.33	0.29	0.25	0.35
80	Arlington Heights Road, Salt Creek	6.22	7.69	6.92	6.27	7.07	7.46	5.18	5.13	5.81	6.11	3.56
18	Devon Avenue, Salt Creek	6.46	7.32	7.22	6.40	7.31	7.24	4.70	5.32	5.53	6.17	3.77
24	Wolf Road, Salt Creek	6.71	7.66	5.87	5.27	6.67	6.97	5.84	6.49	6.51	6.73	5.24
109	Brookfield Avenue, Salt Creek	5.42	8.16	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	5.10	5.34	4.80	6.35	6.94	6.57	5.75	6.14	6.27	5.08
77	Elmhurst Road, Higgins Creek	0.55	0.41	0.58	0.46	0.34	0.34	0.45	0.73	0.32	0.58	0.75
78	Wille Road, Higgins Creek	4.85	5.67	5.44	4.25	4.99	6.96	5.85	4.41	5.02	5.42	4.04
12	Lake-Cook Road, Buffalo Creek	0.37	0.22	0.48	0.51	0.41	0.44	0.33	0.51	0.39	0.32	1.25
13	Lake-Cook Road, Des Plaines River	6.79	6.05	4.94	5.24	5.02	4.92	4.35	5.14	4.30	6.80	3.58
17	Oakton Street, Des Plaines River	4.97	4.84	4.18	3.80	5.32	4.23	3.66	4.56	4.16	3.42	3.04
19	Belmont Avenue, Des Plaines River	4.56	4.62	3.87	3.54	4.54	4.00	3.87	4.16	3.98	4.52	3.06
20	Roosevelt Road, Des Plaines River	4.40	4.50	3.69	3.42	4.26	3.83	3.75	4.03	3.88	4.41	2.85
22	Ogden Avenue, Des Plaines River	5.91	5.21	3.98	3.78	5.02	4.75	4.45	4.20	4.35	4.61	3.44
23	Willow Springs Road, Des Plaines River	4.30	4.93	3.85	3.89	4.77	4.58	4.44	4.29	4.16	4.25	3.49
29	Stephen Street, Des Plaines River	5.03	5.18	3.70	3.91	4.61	4.64	4.55	4.27	4.51	4.26	3.59
91	Material Service Road, Des Plaines River	4.83	4.98	3.68	4.52	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-62

TOTAL SOLIDS MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	1941	1948	ND	ND	ND	811	696	567	800
106	Dundee Road, West Fork North Branch Chicago River	645	926	941	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	790	749	741	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	687	693	708	770	693	749	727	763	689	670	718
104	Glenview Road, North Branch Chicago River	733	631	631	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	682	661	737	828	704	772	840	819	693	758	699
105	Frontage Road, Skokie River	637	606	611	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	880	688	754	863	726	729	859	860	692	760	673
96	Albany Avenue, North Branch Chicago River	651	724	674	616	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	292	321	230	363	299	276	246	320	240	207	355
102	Oakton Street, North Shore Channel	359	416	270	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	491	461	542	574	573	529	512	511	552	488	435
101	Foster Avenue, North Shore Channel	469	478	473	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	561	520	616	654	663	596	585	557	611	522	665
73	Diversey Parkway, North Branch Chicago River	565	514	642	654	655	592	622	590	565	514	577
46	Grand Avenue, North Branch Chicago River	610	503	602	587	596	620	547	618	617	506	496
74	Lake Shore Drive, Chicago River	312	314	403	402	297	320	235	237	230	216	320
100	Wells Street, Chicago River	409	366	378	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	500	469	565	517	484	492	370	418	391	355	405
108	Loomis Street, South Branch Chicago River	495	476	419	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	484	476	451	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	485	ND	ND	552	486	536	435	500	391	429	439
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	482	488	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	502	498	522	517	478	547	435	525	499	424	432
41	Harlem Avenue, Chicago Sanitary & Ship Canal	531	506	584	619	613	608	555	569	544	503	522
42	Route 83, Chicago Sanitary & Ship Canal	588	557	636	566	608	595	580	585	554	566	486
48	Stephen Street, Chicago Sanitary & Ship Canal	602	580	630	633	581	623	617	628	580	596	608
82	Lockport Treblez, Chicago Sanitary & Ship Canal	ND	ND	ND	812	634	632	658	638	623	584	603
92	Lockport Forebay, Chicago Sanitary & Ship Canal	610	576	643	680	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	241	268	302	282	260	327	222	262	240	257	247
50	Burnham Avenue, Wolf Lake	245	247	265	255	231	286	265	272	245	270	261
55	130th Street, Calumet River	334	341	395	364	342	341	328	344	349	306	369
86	Burnham Avenue, Grand Calumet River	911	874	799	934	913	990	940	1364	1183	1113	966
56	Indiana Avenue, Little Calumet River	405	475	414	489	461	514	523	516	459	571	607
76	Halsted Street, Little Calumet River	547	547	622	697	664	589	647	734	649	673	714
52	Wentworth Avenue, Little Calumet River	828	838	706	835	772	740	814	818	662	887	780
54	Joe Orr Road, Thorn Creek	979	1602	1230	1140	1096	1182	1273	1090	943	844	834
97	170th Street, Thorn Creek	1308	1285	861	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	951	913	779	965	905	782	918	923	817	774	724
58	Ashland Avenue, Cal-Sag Channel	609	700	688	753	641	605	739	748	646	643	710
59	Cicero Avenue, Cal-Sag Channel	633	618	656	775	663	639	734	721	686	641	697
43	Route 83, Cal-Sag Channel	625	621	674	760	664	673	717	733	643	691	781
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	662	711	733	657	672	810	776	845	709	648	625
63	Longmeadow Lane, West Branch DuPage River	646	ND	888	698	869	827	1020	963	1027	770	1372
89	Walnut Lane, West Branch DuPage River	608	591	645	651	622	615	628	755	692	660	700
64	Lake Street, West Branch DuPage River	632	661	710	658	630	684	709	772	742	681	771
79	Higgins Road, Salt Creek	701	746	896	895	734	776	852	959	906	909	803
80	Arlington Heights Road, Salt Creek	668	666	743	749	670	709	781	828	721	746	675
18	Devon Avenue, Salt Creek	714	648	754	771	693	734	861	846	719	639	724
24	Wolf Road, Salt Creek	739	774	783	821	757	955	833	943	846	790	826
109	Brookfield Avenue, Salt Creek	707	565	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	1387	810	806	731	854	816	872	827	783	744
77	Elmhurst Road, Higgins Creek	908	958	1120	879	858	1015	930	1081	992	1297	922
78	Wille Road, Higgins Creek	672	764	785	733	700	786	833	828	758	675	752
12	Lake-Cook Road, Buffalo Creek	765	764	860	810	716	753	802	842	777	778	819
13	Lake-Cook Road, Des Plaines River	713	707	676	709	627	714	713	731	695	740	606
17	Oakton Street, Des Plaines River	663	733	711	679	642	738	717	808	698	607	614
19	Belmont Avenue, Des Plaines River	749	758	702	675	637	720	765	802	747	762	657
20	Roosevelt Road, Des Plaines River	648	774	703	681	639	724	775	793	750	750	638
22	Ogden Avenue, Des Plaines River	712	813	743	713	665	745	804	805	779	705	637
23	Willow Springs Road, Des Plaines River	670	732	724	732	673	761	772	815	742	703	629
29	Stephen Street, Des Plaines River	667	754	733	734	671	768	846	850	789	718	678
91	Material Service Road, Des Plaines River	708	788	712	798	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-63

TOTAL VOLATILE SOLIDS MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	11.7	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	4.3	6.6	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	3.9	6.7	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	5.8	5.0	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	2.8	4.5	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	4.6	5.0	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	3.6	4.4	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	ND	ND	ND	ND	ND	ND	3.3	4.5	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	ND	ND	ND	ND	ND	ND	3.3	4.7	ND	ND	ND
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	ND	2.2	3.9	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	2.3	3.5	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	3.1	3.5	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	3.2	5.8	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	3.7	4.8	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	3.0	3.5	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	3.6	3.8	ND	ND	ND
82	Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	138.9	112.8	135.8	15.2	14.0	ND	ND	135.0
92	Lockport Forebay, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	ND	2.0	2.6	ND	ND	ND
50	Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	ND	4.3	4.7	ND	ND	ND
55	130th Street, Calumet River	ND	ND	ND	ND	ND	ND	2.8	2.7	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	ND	ND	ND	ND	ND	ND	6.1	63.1	ND	ND	ND
56	Indiana Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	4.4	5.8	ND	ND	ND
76	Halsted Street, Little Calumet River	ND	ND	ND	ND	ND	ND	6.3	3.0	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	ND	9.3	9.0	ND	ND	ND
54	Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	ND	3.1	3.3	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	7.8	5.0	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	6.2	4.9	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	5.0	6.3	ND	ND	ND
43	Route 83, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	9.2	6.9	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	ND	9.1	15.9	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	7.0	14.9	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	ND	5.9	15.8	ND	ND	ND
64	Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	ND	8.7	17.3	ND	ND	ND
79	Higgins Road, Salt Creek	ND	ND	ND	ND	ND	ND	9.4	14.0	ND	ND	ND
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	ND	4.4	7.2	ND	ND	ND
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	6.6	15.8	ND	ND	ND
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	ND	8.6	13.8	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	9.5	16.3	ND	ND	ND
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	ND	5.9	16.4	ND	ND	ND
78	Wille Road, Higgins Creek	ND	ND	ND	ND	ND	ND	4.5	10.0	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	ND	7.1	13.4	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	ND	7.3	9.4	ND	ND	ND
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	ND	8.6	12.8	ND	ND	ND
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	9.2	11.8	ND	ND	ND
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	ND	9.3	10.4	ND	ND	ND
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	ND	9.6	10.8	ND	ND	ND
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	ND	7.5	13.8	ND	ND	ND
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	ND	8.4	13.8	ND	ND	ND
91	Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-64

TOTAL SUSPENDED SOLIDS MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	71.0	120.0	ND	ND	ND	97.0	40.6	41.0	42.7
106	Dundee Road, West Fork North Branch Chicago River	50.7	39.8	46.8	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	25.6	28.5	32.1	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	21.2	30.6	38.8	22.6	24.7	36.2	22.7	32.0	30.9	20.3	47.7
104	Glenview Road, North Branch Chicago River	30.3	25.9	22.8	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	18.7	18.1	21.8	14.3	24.0	15.2	13.2	23.9	32.6	13.9	47.9
105	Frontage Road, Skokie River	19.4	21.6	22.4	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	20.9	30.2	25.8	28.6	29.6	31.8	27.4	22.5	31.0	20.8	38.5
96	Albany Avenue, North Branch Chicago River	20.3	24.4	21.6	15.0	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	9.9	12.8	9.8	13.6	9.9	8.9	10.8	11.6	15.3	8.1	15.8
102	Oakton Street, North Shore Channel	19.7	20.5	16.6	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	9.4	15.3	8.5	10.8	10.3	10.3	9.4	11.5	13.7	12.2	12.0
101	Foster Avenue, North Shore Channel	9.6	15.4	10.4	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	12.3	18.5	16.8	15.0	13.0	10.6	12.3	13.1	14.8	9.6	13.8
73	Diversey Parkway, North Branch Chicago River	14.1	19.3	17.9	15.3	16.5	14.9	11.8	18.7	16.3	10.0	21.8
46	Grand Avenue, North Branch Chicago River	13.5	18.3	17.6	15.2	17.2	12.0	13.4	18.6	15.7	11.3	16.1
74	Lake Shore Drive, Chicago River	2.5	4.0	4.8	12.8	6.0	5.3	8.6	14.9	11.2	6.3	19.1
100	Wells Street, Chicago River	6.4	6.3	10.0	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	11.6	18.4	16.8	15.2	16.3	12.3	11.1	14.8	21.1	11.4	18.2
108	Loomis Street, South Branch Chicago River	12.5	12.2	17.9	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	11.8	14.4	19.8	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	13.7	ND	ND	19.1	14.0	13.4	13.8	13.6	28.8	12.0	14.8
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	19.3	19.6	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	13.9	15.1	20.8	16.5	18.5	13.7	14.2	16.8	18.5	16.1	19.7
41	Harlem Avenue, Chicago Sanitary & Ship Canal	8.1	11.6	10.8	11.5	13.2	10.0	12.2	14.3	11.8	15.7	10.2
42	Route 83, Chicago Sanitary & Ship Canal	10.6	11.5	12.1	8.8	8.3	10.5	11.2	9.0	15.3	15.5	17.1
48	Stephen Street, Chicago Sanitary & Ship Canal	16.2	13.4	15.2	16.8	11.5	15.3	15.9	17.5	29.3	18.5	29.3
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	19.2	37.0	57.4	64.3	38.3	12.1	15.3	15.5
92	Lockport Forebay, Chicago Sanitary & Ship Canal	14.7	15.1	15.5	15.6	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	8.7	7.1	11.3	12.6	12.3	15.3	10.8	14.5	27.7	17.8	10.5
50	Burnham Avenue, Wolf Lake	5.8	3.6	7.4	4.7	5.4	10.7	8.2	14.3	14.2	22.3	8.1
55	130th Street, Calumet River	9.3	12.5	20.7	14.0	8.6	10.4	12.3	12.8	10.7	15.8	11.3
86	Burnham Avenue, Grand Calumet River	17.0	16.2	16.9	23.5	16.4	18.2	14.6	182.6	30.9	38.1	38.8
56	Indiana Avenue, Little Calumet River	29.9	27.8	29.6	22.2	26.4	18.0	24.5	37.3	53.4	43.2	40.1
76	Halsted Street, Little Calumet River	10.5	15.2	15.4	11.6	12.7	20.7	26.3	17.3	26.6	29.7	24.0
52	Wentworth Avenue, Little Calumet River	28.7	30.5	53.5	55.4	67.3	94.4	67.2	64.1	33.6	74.3	55.3
54	Joe Orr Road, Thorn Creek	42.0	7.4	11.6	24.1	16.6	15.2	14.6	9.8	19.5	26.5	38.4
97	170th Street, Thorn Creek	30.2	24.1	38.3	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	33.0	23.0	39.4	28.5	34.9	57.3	42.0	31.9	32.0	54.2	44.7
58	Ashland Avenue, Cal-Sag Channel	24.4	17.3	27.7	17.9	18.2	18.9	35.4	29.7	29.2	35.5	38.2
59	Cicero Avenue, Cal-Sag Channel	24.0	21.1	20.7	19.8	22.3	27.6	28.5	39.7	48.2	44.7	39.4
43	Route 83, Cal-Sag Channel	35.9	25.9	35.8	28.2	23.7	24.3	40.0	46.6	39.9	45.4	66.2
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	30.4	18.9	18.2	36.4	23.1	17.7	49.6	122.1	25.8	21.7	36.2
63	Longmeadow Lane, West Branch DuPage River	36.0	ND	30.3	40.0	21.1	22.6	25.6	83.0	85.0	29.9	35.8
89	Walnut Lane, West Branch DuPage River	18.3	16.1	18.8	23.5	19.6	13.5	16.8	74.1	55.0	27.3	28.3
64	Lake Street, West Branch DuPage River	40.3	33.2	42.0	45.9	35.5	32.8	37.7	86.5	48.7	42.3	44.1
79	Higgins Road, Salt Creek	44.6	38.0	33.9	41.2	33.7	29.0	41.0	77.5	37.4	34.9	43.1
80	Arlington Heights Road, Salt Creek	8.8	8.3	11.3	11.7	14.4	8.5	14.8	17.5	16.4	12.1	14.5
18	Devon Avenue, Salt Creek	19.9	15.7	23.1	27.4	31.3	13.8	35.8	47.1	18.2	18.9	20.8
24	Wolf Road, Salt Creek	43.3	23.4	31.0	37.6	33.0	24.7	48.4	66.6	51.5	47.8	58.6
109	Brookfield Avenue, Salt Creek	56.1	18.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	20.7	29.3	40.6	33.6	26.3	52.9	83.0	28.6	50.5	78.3
77	Elmhurst Road, Higgins Creek	34.8	36.0	28.2	39.3	43.9	22.8	30.1	105.9	83.5	113.1	48.1
76	Wille Road, Higgins Creek	5.9	7.0	5.5	12.4	5.0	11.9	12.8	42.3	34.7	26.0	18.1
12	Lake-Cook Road, Buffalo Creek	47.6	32.4	33.3	74.6	54.2	27.4	36.7	72.3	30.5	46.6	48.2
13	Lake-Cook Road, Des Plaines River	36.8	28.7	29.8	33.8	32.8	32.3	42.4	45.2	28.3	36.2	41.1
17	Oakton Street, Des Plaines River	42.1	28.8	29.8	45.9	36.2	40.5	50.3	60.9	44.8	40.3	43.3
19	Belmont Avenue, Des Plaines River	41.8	28.5	26.3	32.2	27.7	24.0	53.3	60.3	44.8	50.6	45.4
20	Roosevelt Road, Des Plaines River	43.4	31.0	26.6	31.0	27.3	25.0	50.1	51.1	37.1	41.1	49.3
22	Ogden Avenue, Des Plaines River	52.6	23.2	27.3	34.3	29.7	27.6	56.9	52.2	36.0	45.9	61.1
23	Willow Springs Road, Des Plaines River	33.4	24.0	33.2	43.9	30.5	37.9	44.1	59.9	39.3	46.3	41.3
29	Stephen Street, Des Plaines River	41.6	28.3	44.1	42.5	39.4	38.6	46.1	70.0	42.6	56.4	57.4
91	Material Service Road, Des Plaines River	46.1	30.1	45.1	38.7	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-65

VOLATILE SUSPENDED SOLIDS MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	12.00	19.00	ND	ND	ND	ND	ND	ND	7.22
106	Dundee Road, West Fork North Branch Chicago River	13.33	6.50	7.60	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	5.63	5.64	6.20	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	4.78	6.00	6.36	4.60	5.09	6.25	ND	ND	ND	ND	8.83
104	Glenview Road, North Branch Chicago River	7.33	5.22	5.30	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	4.56	4.70	4.45	3.50	4.64	3.50	ND	ND	ND	ND	8.75
105	Frontage Road, Skokie River	5.33	4.58	5.60	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	4.91	6.08	5.67	6.45	5.82	6.42	ND	ND	ND	ND	7.50
96	Albany Avenue, North Branch Chicago River	5.10	5.33	6.33	4.50	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Branch Channel	2.56	3.78	2.22	3.56	2.80	2.33	ND	ND	ND	ND	2.83
102	Oakton Street, North Shore Channel	4.10	5.27	3.00	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	4.33	5.08	3.83	4.50	4.08	4.08	ND	ND	ND	ND	5.36
101	Foster Avenue, North Shore Channel	3.33	5.50	3.60	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	3.83	4.75	4.92	4.83	3.58	3.00	ND	ND	ND	ND	4.50
73	Diversey Parkway, North Branch Chicago River	3.83	5.08	5.08	3.75	3.75	3.33	ND	ND	ND	ND	5.58
46	Grand Avenue, North Branch Chicago River	3.42	4.50	4.25	3.75	3.67	2.83	ND	ND	ND	ND	4.58
74	Lake Shore Drive, Chicago River	0.90	1.25	1.42	4.67	1.64	1.50	ND	ND	ND	ND	4.25
100	Wells Street, Chicago River	2.17	1.67	3.00	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	3.09	4.25	3.33	3.75	3.83	3.25	ND	ND	ND	ND	4.08
108	Loomis Street, South Branch Chicago River	2.92	2.33	3.89	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	3.83	4.25	7.70	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	3.33	ND	ND	4.11	3.18	3.17	ND	ND	ND	ND	3.67
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	4.50	4.40	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	3.67	3.00	5.00	3.67	3.83	3.17	ND	ND	ND	ND	4.25
41	Harlem Avenue, Chicago Sanitary & Ship Canal	2.50	2.92	3.17	3.58	3.64	3.17	ND	ND	ND	ND	3.42
42	Route 83, Chicago Sanitary & Ship Canal	3.00	2.42	3.17	2.36	2.75	3.08	ND	ND	ND	ND	4.67
48	Stephen Street, Chicago Sanitary & Ship Canal	3.58	2.58	3.42	3.82	2.73	3.42	ND	ND	ND	ND	5.92
82	Lockport Trestler, Chicago Sanitary & Ship Canal	ND	ND	ND	4.71	7.39	12.08	ND	ND	5.34	6.29	6.43
92	Lockport Forebay, Chicago Sanitary & Ship Canal	3.69	3.48	3.57	3.68	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	1.25	1.42	1.58	2.00	2.05	2.21	ND	ND	ND	ND	2.33
50	Burnham Avenue, Wolf Lake	2.83	1.58	3.45	2.08	2.25	4.33	ND	ND	ND	ND	4.50
55	130th Street, Calumet River	1.70	2.67	4.09	2.73	1.94	1.96	ND	ND	ND	ND	3.67
86	Burnham Avenue, Grand Calumet River	8.20	7.09	5.90	10.00	5.55	7.83	ND	ND	ND	ND	13.75
56	Indiana Avenue, Little Calumet River	5.00	4.58	5.38	3.92	4.74	3.39	ND	ND	ND	ND	7.67
76	Halsted Street, Little Calumet River	2.55	3.67	4.25	2.75	3.00	7.46	ND	ND	ND	ND	5.83
52	Wentworth Avenue, Little Calumet River	5.50	5.45	9.55	9.91	19.73	17.00	ND	ND	ND	ND	8.00
54	Joe Orr Road, Thorn Creek	6.67	2.71	2.58	4.83	3.25	4.17	ND	ND	ND	ND	5.42
97	170th Street, Thorn Creek	5.60	4.17	5.90	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	6.30	4.75	6.70	4.91	5.91	9.33	ND	ND	ND	ND	6.27
58	Ashland Avenue, Cal-Sag Channel	5.00	3.58	5.83	3.50	3.63	3.44	ND	ND	ND	ND	7.33
59	Cicero Avenue, Cal-Sag Channel	4.91	4.25	4.17	3.25	4.00	5.00	ND	ND	ND	ND	6.42
43	Route 83, Cal-Sag Channel	5.64	5.50	6.25	5.00	4.00	4.33	ND	ND	ND	ND	8.42
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	6.20	4.78	4.45	6.29	4.70	4.00	ND	ND	ND	ND	7.00
63	Longmeadow Lane, West Branch DuPage River	8.00	ND	4.00	9.00	5.22	6.25	ND	ND	ND	ND	8.92
89	Walnut Lane, West Branch DuPage River	6.36	4.58	4.75	6.42	5.91	5.50	ND	ND	ND	ND	6.83
64	Lake Street, West Branch DuPage River	8.75	7.33	9.00	10.55	7.82	8.17	ND	ND	ND	ND	9.58
79	Higgins Road, Salt Creek	9.56	9.38	9.30	10.10	10.30	8.70	ND	ND	ND	ND	9.36
80	Arlington Heights Road, Salt Creek	3.67	3.30	3.75	3.67	3.73	3.67	ND	ND	ND	ND	4.42
18	Devon Avenue, Salt Creek	5.50	4.10	5.00	5.33	5.27	3.42	ND	ND	ND	ND	6.42
24	Wolf Road, Salt Creek	8.00	5.25	5.50	6.60	5.55	5.17	ND	ND	ND	ND	10.08
109	Brookfield Avenue, Salt Creek	9.80	3.67	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	5.00	4.75	6.80	5.91	4.50	ND	ND	ND	ND	12.33
77	Elmhurst Road, Higgins Creek	7.00	6.83	6.36	8.60	9.55	4.92	ND	ND	ND	ND	8.42
78	Wille Road, Higgins Creek	2.50	2.58	2.75	4.00	2.55	3.83	ND	ND	ND	ND	4.67
12	Lake-Cook Road, Buffalo Creek	10.13	7.00	7.00	11.40	8.64	5.64	ND	ND	ND	ND	10.67
13	Lake-Cook Road, Des Plaines River	7.58	7.50	6.92	6.50	5.64	6.50	ND	ND	ND	ND	7.42
17	Oakton Street, Des Plaines River	8.70	7.09	6.17	8.80	6.45	8.33	ND	ND	ND	ND	8.75
19	Belmont Avenue, Des Plaines River	7.75	5.75	5.83	5.60	4.82	5.08	ND	ND	ND	ND	8.25
20	Roosevelt Road, Des Plaines River	7.86	6.08	5.75	5.70	5.00	4.50	ND	ND	ND	ND	8.67
22	Ogden Avenue, Des Plaines River	11.00	5.33	5.92	6.10	5.09	5.42	ND	ND	ND	ND	11.00
23	Willow Springs Road, Des Plaines River	7.00	6.00	6.75	7.80	5.64	7.25	ND	ND	ND	ND	8.25
29	Stephen Street, Des Plaines River	8.82	6.58	9.50	7.30	7.45	8.42	ND	ND	ND	ND	11.08
91	Material Service Road, Des Plaines River	9.83	7.50	8.98	8.06	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-66

TOTAL DISSOLVED SOLIDS MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	1870	1828	ND	ND	ND	729	655	526	757
106	Dundee Road, West Fork North Branch Chicago River	595	866	894	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	764	721	709	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	666	663	669	747	669	713	705	715	658	650	671
104	Glenview Road, North Branch Chicago River	703	605	608	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	664	643	715	814	680	757	827	795	661	744	651
105	Frontage Road, Skokie River	617	584	589	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	859	658	729	835	697	697	832	858	661	739	635
96	Albany Avenue, North Branch Chicago River	630	700	652	601	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	282	309	220	350	289	267	235	316	225	198	339
102	Oakton Street, North Shore Channel	339	395	254	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	481	446	534	563	563	519	502	503	539	475	423
101	Foster Avenue, North Shore Channel	460	463	463	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	548	501	600	639	650	585	572	551	597	512	651
73	Diversey Parkway, North Branch Chicago River	551	495	624	639	639	577	610	578	549	504	555
46	Grand Avenue, North Branch Chicago River	597	485	585	572	579	608	533	610	601	495	480
74	Lake Shore Drive, Chicago River	309	310	398	389	291	315	227	221	219	209	300
100	Wells Street, Chicago River	403	360	368	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	488	450	548	502	467	480	359	410	370	344	387
108	Loomis Street, South Branch Chicago River	482	463	401	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	473	462	431	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	471	ND	ND	533	472	522	421	501	362	417	424
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	463	469	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	488	483	502	501	459	533	421	510	480	408	413
41	Harlem Avenue, Chicago Sanitary & Ship Canal	523	495	574	607	600	598	543	557	532	488	512
42	Route 83, Chicago Sanitary & Ship Canal	558	546	624	558	600	585	569	578	538	550	468
48	Stephen Street, Chicago Sanitary & Ship Canal	586	566	615	616	570	607	601	624	551	577	579
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	792	597	574	594	599	611	568	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	595	561	628	665	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	232	261	290	269	247	313	211	249	213	239	236
50	Burnham Avenue, Wolf Lake	239	243	258	250	226	275	257	258	231	248	253
55	130th Street, Calumet River	325	329	374	350	334	329	318	333	338	291	357
86	Burnham Avenue, Grand Calumet River	894	858	782	911	897	972	925	1181	1152	1075	930
56	Indiana Avenue, Little Calumet River	375	447	385	466	440	496	503	479	405	527	567
76	Halsted Street, Little Calumet River	536	532	606	685	651	564	626	717	622	643	690
52	Wentworth Avenue, Little Calumet River	800	808	653	780	705	645	747	754	628	812	725
54	Joe Orr Road, Thorn Creek	937	1594	1218	1116	1080	1167	1258	1086	923	818	795
97	170th Street, Thorn Creek	1277	1261	822	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	918	890	739	937	870	725	876	891	785	720	679
58	Ashland Avenue, Cal-Sag Channel	585	683	641	735	622	588	708	719	617	607	671
59	Cicero Avenue, Cal-Sag Channel	609	597	636	756	639	614	706	682	636	556	658
43	Route 83, Cal-Sag Channel	589	595	638	732	638	649	675	688	604	646	715
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	631	692	715	620	649	792	726	723	683	626	588
63	Longmeadow Lane, West Branch DuPage River	610	ND	858	658	848	804	994	880	942	740	1336
89	Walnut Lane, West Branch DuPage River	590	575	626	628	603	602	611	681	637	632	672
64	Lake Street, West Branch DuPage River	592	627	668	612	595	651	671	685	693	639	727
79	Higgins Road, Salt Creek	656	708	862	854	700	747	811	882	869	874	760
80	Arlington Heights Road, Salt Creek	659	658	732	738	655	701	766	811	704	734	660
18	Devon Avenue, Salt Creek	694	632	731	743	662	721	825	799	701	620	703
24	Wolf Road, Salt Creek	696	750	752	784	724	931	785	877	794	742	767
109	Brookfield Avenue, Salt Creek	650	547	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	1366	780	765	697	828	763	789	798	733	666
77	Elmhurst Road, Higgins Creek	873	922	1092	840	814	992	900	975	909	1184	874
78	Wille Road, Higgins Creek	666	757	780	721	695	774	821	786	723	649	734
12	Lake-Cook Road, Buffalo Creek	717	731	827	735	662	726	765	769	747	731	771
13	Lake-Cook Road, Des Plaines River	677	678	646	675	594	682	670	685	666	704	565
17	Oakton Street, Des Plaines River	620	704	681	633	606	697	667	747	653	567	571
19	Belmont Avenue, Des Plaines River	708	730	676	643	609	696	712	742	703	711	612
20	Roosevelt Road, Des Plaines River	605	743	676	650	611	699	725	742	713	709	589
22	Ogden Avenue, Des Plaines River	660	790	716	679	635	718	747	753	743	659	576
23	Willow Springs Road, Des Plaines River	637	708	690	688	642	723	728	755	703	657	588
29	Stephen Street, Des Plaines River	625	726	689	692	632	729	800	780	747	662	621
91	Material Service Road, Des Plaines River	662	758	667	759	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-67

PHENOLS MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (µg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	21.0	10.0	ND	ND	ND	10.5	11.6	7.0	15.4
106	Dundas Road, West Fork North Branch Chicago River	9.0	5.5	18.2	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	5.6	7.6	14.1	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	9.4	11.6	16.5	24.5	26.0	14.8	17.3	19.3	12.0	18.8	16.8
104	Glenview Road, North Branch Chicago River	4.3	5.2	11.4	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	7.9	9.1	15.3	19.6	21.0	13.4	15.8	14.8	13.1	13.9	19.9
105	Frontage Road, Skokie River	3.2	5.4	10.3	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	5.5	7.3	11.7	18.0	16.0	9.6	11.2	11.8	9.6	11.8	14.0
96	Albany Avenue, North Branch Chicago River	6.4	6.6	13.1	14.5	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	2.8	4.5	4.6	13.3	12.4	10.3	8.8	15.1	10.0	8.9	6.6
102	Oakton Street, North Shore Channel	6.5	6.0	7.9	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	7.3	9.0	14.3	22.2	20.4	13.4	13.5	12.3	9.3	12.9	14.3
101	Foster Avenue, North Shore Channel	6.2	9.0	12.2	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	6.5	8.3	13.3	20.6	18.7	11.4	12.6	13.0	9.5	13.9	13.0
73	Diversey Parkway, North Branch Chicago River	6.8	8.6	13.8	20.8	17.8	12.1	13.2	11.3	9.3	11.1	14.2
46	Grand Avenue, North Branch Chicago River	5.3	8.5	15.0	21.4	18.8	14.1	13.1	11.8	9.9	12.3	14.3
74	Lake Shore Drive, Chicago River	3.0	2.7	7.3	15.6	9.2	9.3	7.0	7.2	5.5	9.9	6.5
100	Wells Street, Chicago River	3.8	3.8	11.9	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	7.6	6.7	10.9	23.0	15.8	12.7	9.3	8.0	6.8	7.0	11.6
108	Loomis Street, South Branch Chicago River	5.5	7.4	9.6	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	5.8	9.5	17.7	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	5.6	ND	ND	23.0	15.6	11.3	12.1	8.8	9.7	11.7	10.8
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	7.5	11.8	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	5.0	7.7	11.7	17.5	16.0	13.6	11.1	10.4	11.8	9.8	9.8
41	Herlem Avenue, Chicago Sanitary & Ship Canal	5.6	6.8	14.8	18.5	15.3	12.5	14.1	12.4	8.4	16.8	15.2
42	Route 83, Chicago Sanitary & Ship Canal	6.2	8.7	13.4	19.1	17.4	13.4	10.4	10.8	10.7	13.3	15.1
48	Stephen Street, Chicago Sanitary & Ship Canal	6.6	8.3	12.8	21.8	17.9	14.9	12.7	11.6	12.5	14.8	17.8
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	15.3	10.5	12.6	10.9	10.2	8.2	10.3	13.5
92	Lockport Forebay, Chicago Sanitary & Ship Canal	5.7	7.5	10.9	18.5	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	1.6	1.7	3.3	7.3	7.2	5.7	8.0	6.8	5.6	8.8	8.4
50	Burnham Avenue, Wolf Lake	3.2	3.8	5.0	11.6	10.0	10.8	8.6	9.3	7.5	10.1	10.8
55	130th Street, Calumet River	1.1	1.8	5.0	10.5	8.2	6.9	8.0	7.5	7.5	13.1	10.0
86	Burnham Avenue, Grand Calumet River	7.6	6.1	8.0	22.8	20.0	14.4	10.4	34.5	12.0	20.6	19.2
56	Indiana Avenue, Little Calumet River	2.5	4.1	6.0	13.1	15.3	7.4	7.6	6.2	8.0	9.5	13.0
76	Halsted Street, Little Calumet River	7.2	9.4	11.4	24.1	46.6	13.8	12.8	13.3	12.1	17.4	53.0
52	Wentworth Avenue, Little Calumet River	12.6	16.5	12.5	21.5	23.1	13.4	12.5	12.9	14.8	13.3	17.7
54	Joe Orr Road, Thorn Creek	6.0	9.0	10.2	19.7	18.8	11.2	15.2	14.4	10.4	14.3	18.7
97	170th Street, Thorn Creek	6.2	8.0	7.8	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	7.5	8.4	11.9	19.9	21.1	15.8	14.0	14.4	11.4	15.4	21.7
58	Ashland Avenue, Cal-Sag Channel	7.8	8.8	11.8	21.1	22.6	17.5	15.3	13.7	13.1	14.8	20.1
59	Cicero Avenue, Cal-Sag Channel	7.9	9.3	13.5	20.6	26.3	15.4	14.2	20.0	13.1	15.7	23.9
43	Route 33, Cal-Sag Channel	5.5	10.2	11.5	19.1	21.5	16.1	12.7	13.8	12.3	14.6	22.9
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	6.5	5.3	10.4	17.3	16.3	14.2	16.1	11.1	8.6	10.1	13.7
63	Longmeadow Lane, West Branch DuPage River	9.0	ND	18.0	20.1	18.8	14.3	14.4	17.9	9.6	19.6	14.3
89	Walnut Lane, West Branch DuPage River	8.8	7.8	17.1	19.7	20.1	16.9	13.0	14.7	9.2	10.7	15.9
64	Lake Street, West Branch DuPage River	7.9	6.3	15.8	22.5	19.3	15.3	13.6	14.7	10.5	15.7	15.0
79	Higgins Road, Salt Creek	7.9	6.1	13.4	17.1	16.6	15.3	12.8	12.1	8.1	10.1	13.0
80	Arlington Heights Road, Salt Creek	5.0	6.6	15.3	18.2	20.3	13.2	12.8	12.0	8.9	11.1	14.8
18	Devon Avenue, Salt Creek	6.3	5.1	16.2	17.6	19.5	13.7	13.3	22.0	9.6	10.3	14.2
24	Wolf Road, Salt Creek	6.0	5.7	12.4	17.1	16.3	9.5	12.7	10.2	9.6	11.6	14.8
109	Brookfield Avenue, Salt Creek	5.4	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	4.7	11.9	20.1	16.3	11.9	11.5	10.5	9.6	11.0	14.3
77	Elmhurst Road, Higgins Creek	12.2	5.8	14.9	28.4	21.6	14.4	17.0	12.8	9.1	9.2	13.8
78	Wille Road, Higgins Creek	8.8	11.3	19.0	26.6	25.0	14.8	16.7	12.1	9.1	11.3	17.2
12	Lake-Cook Road, Buffalo Creek	7.9	9.1	10.6	21.7	20.1	15.0	12.9	13.2	7.9	12.2	13.2
13	Lake-Cook Road, Des Plaines River	4.4	4.6	11.4	18.3	16.7	12.4	12.6	10.2	7.2	8.9	16.2
17	Oakton Street, Des Plaines River	5.0	6.4	11.5	19.6	17.0	12.6	12.9	10.2	9.3	3.7	17.2
19	Belmont Avenue, Des Plaines River	5.8	5.3	11.8	20.3	17.9	13.5	13.3	10.4	8.7	12.4	16.5
20	Roosevelt Road, Des Plaines River	6.0	5.3	11.3	19.7	18.7	13.2	13.6	10.0	9.7	10.8	15.7
22	Ogden Avenue, Des Plaines River	7.6	5.0	12.5	19.6	16.9	11.5	13.9	11.3	8.4	14.0	14.7
23	Willow Springs Road, Des Plaines River	4.5	5.6	11.5	16.9	16.1	12.2	13.8	10.9	9.3	12.2	15.6
29	Stephen Street, Des Plaines River	5.3	5.2	14.8	16.3	18.1	13.6	13.0	9.9	10.3	14.1	15.3
91	Material Service Road, Des Plaines River	5.5	5.1	9.9	18.2	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-68

SULFATE MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	74.5	77.0	ND	ND	ND	63.6	70.3	57.0	90.9
106	Dundee Road, West Fork North Branch Chicago River	64.3	61.8	67.2	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	76.4	64.5	61.8	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	76.4	72.3	69.0	72.0	71.9	77.9	62.9	72.5	81.2	82.0	82.7
104	Glenview Road, North Branch Chicago River	67.8	64.1	64.8	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	80.4	62.3	70.4	74.4	79.2	87.6	78.6	89.2	78.0	90.1	90.8
105	Frontage Road, Skokie River	64.9	64.8	62.3	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	71.6	61.9	63.2	76.1	72.4	77.9	79.4	81.7	88.5	96.4	79.8
96	Albany Avenue, North Branch Chicago River	74.0	69.0	65.8	59.1	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	36.6	34.9	25.6	32.5	34.3	34.1	32.1	34.3	39.4	36.8	42.8
102	Oakton Street, North Shore Channel	43.0	43.3	28.2	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	53.4	52.3	79.8	53.8	51.3	54.2	45.0	51.4	55.1	56.9	57.5
101	Foster Avenue, North Shore Channel	53.2	50.6	49.0	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	57.3	57.1	57.3	53.8	55.7	56.9	52.2	56.7	61.8	57.6	68.5
73	Diversy Parkway, North Branch Chicago River	59.0	55.6	58.2	55.8	68.5	56.5	48.8	61.1	64.7	56.5	65.2
46	Grand Avenue, North Branch Chicago River	58.9	56.3	56.3	55.4	59.2	60.1	53.1	60.2	76.6	58.7	65.3
74	Lake Shore Drive, Chicago River	35.6	32.0	32.0	39.3	32.6	29.9	24.8	28.1	40.2	34.9	40.9
100	Wells Street, Chicago River	44.3	36.6	36.0	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	54.8	49.1	45.8	50.4	51.3	47.2	37.1	39.7	50.1	46.6	57.4
108	Loomis Street, South Branch Chicago River	53.2	49.3	43.3	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	55.1	51.6	51.8	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	53.1	ND	ND	51.9	51.1	50.5	45.0	47.5	46.1	48.0	55.8
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	49.6	43.9	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	52.5	54.3	46.8	51.6	50.0	45.5	39.0	47.1	60.9	50.6	55.3
41	Harlem Avenue, Chicago Sanitary & Ship Canal	72.9	69.5	63.6	72.3	75.6	75.7	64.5	74.0	71.6	66.8	72.3
42	Route 83, Chicago Sanitary & Ship Canal	82.5	78.5	67.1	70.8	72.2	69.6	68.8	70.6	73.9	75.4	78.5
48	Stephen Street, Chicago Sanitary & Ship Canal	94.6	88.1	88.9	92.3	91.5	80.7	84.9	89.4	95.7	95.2	103.8
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	100.9	89.5	97.1
92	Lockport Forebay, Chicago Sanitary & Ship Canal	96.7	88.7	91.1	96.2	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	29.2	28.4	28.3	29.8	29.8	25.1	23.9	27.5	50.8	43.0	44.2
50	Burnham Avenue, Wolf Lake	35.2	36.6	38.9	38.6	35.3	32.2	33.0	31.5	63.2	44.9	48.1
55	130th Street, Calumet River	54.2	54.7	63.3	49.8	50.6	43.4	52.2	46.1	72.4	53.1	70.8
86	Burnham Avenue, Grand Calumet River	260.1	219.9	184.3	177.2	157.5	195.7	173.8	229.5	247.4	299.3	225.0
56	Indiana Avenue, Little Calumet River	74.3	78.9	73.4	77.8	72.4	88.2	83.9	76.4	103.6	98.7	108.8
76	Halsted Street, Little Calumet River	100.7	91.2	113.3	143.1	125.0	119.0	112.8	154.5	163.2	142.3	153.5
52	Wentworth Avenue, Little Calumet River	180.2	146.0	122.5	145.1	131.2	122.0	128.8	143.7	144.9	162.5	150.0
54	Joe Orr Road, Thorn Creek	460.4	724.5	521.3	342.4	380.1	355.8	391.1	312.9	205.8	173.5	162.8
97	170th Street, Thorn Creek	498.3	445.9	255.8	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	293.1	241.9	161.0	190.1	229.8	158.0	179.7	216.8	174.1	161.0	138.7
58	Ashland Avenue, Cal-Sag Channel	142.4	146.2	110.3	163.6	133.2	133.6	94.2	139.6	147.1	139.3	144.8
59	Cicero Avenue, Cal-Sag Channel	136.4	118.2	124.3	151.8	133.9	139.3	130.7	143.1	156.8	137.8	146.2
43	Route 83, Cal-Sag Channel	128.4	109.3	116.6	144.1	132.4	135.7	126.7	134.4	127.0	141.5	146.4
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	46.9	62.8	63.0	60.4	58.0	71.2	54.6	58.9	85.6	82.4	81.0
63	Longmeadow Lane, West Branch DuPage River	60.2	ND	83.5	71.7	87.1	79.9	76.9	60.2	90.7	89.4	90.4
89	Walnut Lane, West Branch DuPage River	68.1	65.4	73.5	69.3	68.7	67.9	61.0	61.0	79.2	75.1	76.4
64	Lake Street, West Branch DuPage River	68.1	68.0	77.8	68.5	70.5	71.3	64.7	65.8	122.5	78.7	77.5
79	Higgins Road, Salt Creek	72.8	76.0	89.5	79.5	74.9	78.4	67.0	73.8	91.6	97.6	90.5
80	Arlington Heights Road, Salt Creek	77.7	79.3	84.4	73.9	83.6	81.3	72.7	79.2	88.5	91.0	85.6
18	Devon Avenue, Salt Creek	76.4	79.5	82.4	74.0	74.5	76.3	77.0	68.9	97.4	92.9	86.8
24	Wolf Road, Salt Creek	84.1	95.0	98.7	89.4	94.5	108.9	87.4	100.9	107.1	103.8	100.4
109	Brookfield Avenue, Salt Creek	82.4	84.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	95.8	94.2	86.2	90.1	104.4	87.2	81.2	112.5	102.5	92.7
77	Elmhurst Road, Higgins Creek	44.8	47.8	60.9	47.0	55.4	66.4	48.9	81.9	84.8	68.4	72.3
78	Wille Road, Higgins Creek	90.4	97.1	107.8	94.5	99.3	96.5	88.7	96.3	103.0	101.6	97.0
12	Lake-Cook Road, Buffalo Creek	92.9	95.7	98.4	106.5	103.8	92.9	83.9	87.5	117.3	101.2	98.2
13	Lake-Cook Road, Des Plaines River	91.6	84.9	76.8	81.0	71.1	87.9	80.6	89.1	119.2	117.6	92.7
17	Oakton Street, Des Plaines River	88.4	86.3	85.8	75.5	73.4	83.4	75.3	88.2	114.0	80.5	84.2
19	Belmont Avenue, Des Plaines River	85.4	85.6	79.5	78.1	78.3	86.3	76.1	88.2	120.5	107.5	85.3
20	Roosevelt Road, Des Plaines River	85.7	87.4	80.5	78.5	75.6	84.3	75.4	91.0	105.4	105.5	85.8
22	Ogden Avenue, Des Plaines River	89.1	87.5	98.9	79.2	77.7	87.7	78.2	84.2	112.5	94.0	86.3
23	Willow Springs Road, Des Plaines River	92.2	90.0	83.8	85.5	82.2	90.6	81.6	97.2	105.3	105.5	87.3
29	Stephen Street, Des Plaines River	95.6	90.6	82.9	83.4	79.6	90.0	87.2	95.1	106.6	104.4	95.3
91	Material Service Road, Des Plaines River	97.5	95.8	81.2	89.1	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-69

FATS, OILS, AND GREASES MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	4.50	7.44	4.00	9.89
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	11.63	5.49	3.13	5.50	10.40	13.25
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	4.37	5.74	1.88	8.33	7.11	12.17
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	3.63	6.06	2.42	8.22	5.82	12.50
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	6.01	2.00	5.38	5.00	13.83
102	Oakton Street, North Shore Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	4.47	5.54	4.79	ND	ND	3.97	6.50	1.92	9.33	9.27	12.00
101	Foster Avenue, North Shore Channel	2.73	4.84	3.96	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	3.38	5.45	4.56	ND	ND	4.27	8.40	5.08	6.67	8.00	13.88
73	Diversey Parkway, North Branch Chicago River	3.38	3.85	8.94	ND	ND	2.45	7.27	3.08	6.00	6.75	12.42
46	Grand Avenue, North Branch Chicago River	2.59	4.72	3.88	ND	ND	2.75	9.51	4.25	13.14	7.67	13.17
74	Lake Shore Drive, Chicago River	ND	ND	ND	ND	ND	2.00	2.91	2.91	8.30	6.70	11.75
100	Wells Street, Chicago River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	3.56	5.70	4.16	ND	ND	4.95	3.65	2.17	7.36	4.40	10.58
108	Loomis Street, South Branch Chicago River	2.87	4.68	4.79	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	2.96	4.41	4.03	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	3.16	ND	ND	ND	ND	5.25	3.87	2.67	8.67	8.42	13.67
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	4.37	3.89	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	2.89	5.57	4.09	ND	ND	2.55	7.41	3.42	9.92	6.17	11.83
41	Harlem Avenue, Chicago Sanitary & Ship Canal	2.73	5.16	4.09	ND	ND	2.65	6.26	1.92	7.67	6.67	9.67
42	Route 83, Chicago Sanitary & Ship Canal	2.06	5.31	5.79	ND	ND	3.00	6.58	3.83	7.42	7.64	10.67
48	Stephen Street, Chicago Sanitary & Ship Canal	2.74	4.10	3.37	ND	ND	1.85	8.13	2.00	11.17	8.33	10.25
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	3.85	4.76	3.92	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	ND	ND	ND	ND	ND	3.00	4.70	3.56	4.91	9.18	12.83
50	Burnham Avenue, Wolf Lake	ND	ND	ND	ND	ND	4.63	7.42	2.25	5.82	6.83	10.58
55	130th Street, Calumet River	ND	ND	ND	ND	ND	2.33	5.42	3.80	5.18	6.91	11.00
86	Burnham Avenue, Grand Calumet River	6.40	5.76	3.17	ND	ND	3.20	11.05	8.91	7.00	6.92	10.67
37	Indiana Avenue, Little Calumet River	3.66	4.87	3.39	ND	ND	3.97	4.98	3.78	6.90	6.27	11.00
76	Halsted Street, Little Calumet River	2.91	4.39	4.54	ND	ND	3.80	7.47	1.50	5.61	5.83	11.50
52	Wentworth Avenue, Little Calumet River	ND	ND	ND	ND	ND	3.60	6.83	1.67	5.00	5.45	12.92
54	Joe Orr Road, Thorn Creek	ND	ND	ND	ND	ND	12.80	8.18	2.73	7.91	5.58	10.50
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	3.00	5.43	4.11	6.87	4.50	12.00
58	Ashland Avenue, Cal-Sag Channel	3.36	5.33	4.20	ND	ND	ND	7.50	2.91	8.00	5.42	10.42
59	Cicero Avenue, Cal-Sag Channel	2.58	4.45	3.92	ND	ND	5.07	4.83	5.73	5.36	6.17	13.42
43	Route 83, Cal-Sag Channel	3.41	4.38	4.33	ND	ND	5.53	4.58	5.00	6.60	5.45	12.00
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	ND	ND	ND	ND	ND	2.55	7.27	7.91	4.70	10.09	10.91
63	Longmeadow Lane, West Branch DuPage River	ND	ND	ND	ND	ND	3.50	8.50	4.55	7.00	7.30	12.55
89	Walnut Lane, West Branch DuPage River	ND	ND	ND	ND	ND	5.35	4.60	6.58	6.33	8.33	9.83
64	Lake Street, West Branch DuPage River	ND	ND	ND	ND	ND	5.30	7.49	7.55	5.92	7.00	10.83
79	Higgins Road, Salt Creek	ND	ND	ND	ND	ND	2.50	7.07	6.10	5.50	8.20	9.55
80	Arlington Heights Road, Salt Creek	ND	ND	ND	ND	ND	14.20	6.21	8.42	5.18	6.90	9.83
18	Devon Avenue, Salt Creek	ND	ND	ND	ND	ND	9.20	7.16	9.18	7.09	7.25	9.73
24	Wolf Road, Salt Creek	ND	ND	ND	ND	ND	5.55	5.30	5.58	6.06	5.73	10.92
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	5.45	6.70	5.92	7.18	6.27	11.67
77	Elmhurst Road, Higgins Creek	ND	ND	ND	ND	ND	3.35	4.25	10.58	11.42	7.18	11.33
78	Wille Road, Higgins Creek	ND	ND	ND	ND	ND	4.05	4.67	9.83	7.08	7.09	13.42
12	Lake-Cook Road, Buffalo Creek	ND	ND	ND	ND	ND	3.05	8.94	7.92	7.08	6.40	10.67
13	Lake-Cook Road, Des Plaines River	ND	ND	ND	ND	ND	4.15	6.26	7.25	7.73	6.89	9.75
17	Oakton Street, Des Plaines River	ND	ND	ND	ND	ND	3.70	6.23	6.67	5.10	6.00	12.33
19	Belmont Avenue, Des Plaines River	ND	ND	ND	ND	ND	5.45	4.75	6.50	5.58	6.17	10.00
20	Roosevelt Road, Des Plaines River	ND	ND	ND	ND	ND	6.40	4.65	5.58	6.58	7.42	10.42
22	Ogden Avenue, Des Plaines River	ND	ND	ND	ND	ND	5.45	5.20	6.54	6.58	5.73	12.75
23	Willow Springs Road, Des Plaines River	ND	ND	ND	ND	ND	4.80	6.09	5.18	6.18	6.00	12.25
29	Stephen Street, Des Plaines River	ND	ND	ND	ND	ND	3.00	4.56	6.67	5.92	6.09	12.58
91	Material Service Road, Des Plaines River	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-70

TOTAL PHOSPHORUS MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.545	2.200	ND	ND	ND	2.365	2.019	3.165	1.067
106	Dundee Road, West Fork North Branch Chicago River	1.620	0.963	1.102	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.614	0.752	0.663	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.112	0.155	0.143	0.185	0.245	0.183	0.198	0.186	0.174	0.204	0.170
104	Glenview Road, North Branch Chicago River	1.033	1.256	0.844	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.331	0.187	0.150	0.224	0.196	0.152	0.219	0.191	0.206	0.347	0.228
105	Frontage Road, Skokie River	1.708	1.477	0.932	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	1.269	1.153	0.624	1.147	1.208	0.777	1.237	1.093	0.889	1.235	0.819
96	Albany Avenue, North Branch Chicago River	1.002	1.037	0.718	1.312	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Branch Channel	0.213	0.101	0.058	0.183	0.215	0.129	0.067	0.392	0.140	0.035	0.108
102	Oakton Street, North Shore Channel	0.548	0.655	0.221	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	1.377	1.057	1.259	1.214	1.351	1.185	1.189	1.132	0.838	0.958	0.814
101	Foster Avenue, North Shore Channel	1.287	1.148	1.406	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	1.143	1.043	1.198	1.301	1.388	1.086	1.033	1.039	0.839	0.998	0.831
73	Diversey Parkway, North Branch Chicago River	1.055	0.905	0.889	1.102	1.116	0.843	0.943	0.814	0.623	0.749	0.649
46	Grand Avenue, North Branch Chicago River	0.922	0.953	0.800	1.130	1.120	0.863	0.870	0.938	0.761	0.798	0.717
74	Lake Shore Drive, Chicago River	0.286	0.191	0.291	0.373	0.206	0.202	0.099	0.120	0.100	0.050	0.118
100	Wells Street, Chicago River	0.639	0.429	0.387	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	1.089	0.756	0.611	1.130	0.839	0.605	0.465	0.393	0.380	0.346	0.461
108	Loomis Street, South Branch Chicago River	0.775	0.732	0.573	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.857	0.719	0.610	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.884	ND	ND	1.046	0.727	0.528	0.570	0.406	0.375	0.542	0.402
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.738	0.609	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.867	0.723	0.671	0.965	0.690	0.550	0.573	0.458	0.443	0.549	0.390
41	Harlem Avenue, Chicago Sanitary & Ship Canal	1.100	0.984	0.990	1.120	1.044	0.853	0.888	0.757	0.731	0.798	0.533
42	Route 83, Chicago Sanitary & Ship Canal	0.836	0.918	0.760	0.755	0.643	0.661	0.678	0.548	0.552	0.771	0.488
48	Stephen Street, Chicago Sanitary & Ship Canal	1.083	1.180	1.096	1.355	1.098	0.859	1.063	0.873	0.828	0.991	0.693
82	Lockport Treblex, Chicago Sanitary & Ship Canal	ND	ND	ND	1.485	1.545	1.211	1.236	1.165	1.088	1.099	0.898
92	Lockport Forebay, Chicago Sanitary & Ship Canal	1.138	1.197	1.032	1.414	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.032	0.060	0.081	0.131	0.145	0.081	0.088	0.155	0.143	0.054	0.030
50	Burnham Avenue, Wolf Lake	0.029	0.035	0.070	0.075	0.234	0.056	0.095	0.094	0.074	0.061	0.054
55	130th Street, Calumet River	0.035	0.039	0.127	0.088	0.197	0.151	0.094	0.092	0.074	0.066	0.069
86	Burnham Avenue, Grand Calumet River	0.607	0.613	0.666	0.537	0.857	0.704	0.465	1.038	0.513	0.662	0.768
56	Indiana Avenue, Little Calumet River	0.504	0.495	0.554	0.373	0.324	0.214	0.152	0.143	0.156	0.230	0.262
76	Halsted Street, Little Calumet River	2.126	2.038	1.386	3.193	2.595	1.885	1.758	1.243	1.623	1.455	1.249
52	Wentworth Avenue, Little Calumet River	0.561	0.595	0.495	0.752	1.168	0.815	0.553	0.528	0.478	0.565	0.376
54	Joe Orr Road, Thorn Creek	1.650	5.909	5.645	5.208	3.000	8.043	8.065	6.090	5.159	4.173	4.538
97	170th Street, Thorn Creek	2.101	2.607	2.296	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1.223	1.481	1.537	2.170	1.522	1.619	1.992	1.736	1.409	1.626	0.946
58	Ashland Avenue, Cal-Sag Channel	1.898	2.070	1.442	3.038	2.190	1.948	1.445	1.470	1.587	1.389	0.946
59	Cicero Avenue, Cal-Sag Channel	2.048	2.129	1.511	3.119	2.396	2.118	1.930	1.623	1.771	1.604	1.278
43	Route 83, Cal-Sag Channel	1.686	1.814	1.619	2.642	2.453	1.832	2.012	1.631	1.521	1.596	1.300
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.108	0.066	0.060	0.181	0.430	0.101	0.424	0.165	0.142	0.102	0.114
63	Longmeadow Lane, West Branch DuPage River	0.140	ND	0.225	0.184	0.952	0.770	0.547	0.535	0.555	0.811	0.250
89	Walnut Lane, West Branch DuPage River	2.440	2.603	2.428	2.109	2.742	2.903	2.453	2.163	2.271	2.318	1.399
64	Lake Street, West Branch DuPage River	2.338	2.245	2.030	1.649	2.205	2.385	2.007	1.811	1.979	2.025	1.318
79	Higgins Road, Salt Creek	0.106	0.109	0.106	0.249	0.128	0.176	0.169	0.148	0.139	0.109	0.114
80	Arlington Heights Road, Salt Creek	1.980	1.992	1.687	1.688	2.224	1.974	1.575	1.583	1.994	1.802	0.883
18	Devon Avenue, Salt Creek	2.007	1.955	1.810	1.710	2.231	1.855	1.410	1.752	2.052	1.795	0.913
24	Wolf Road, Salt Creek	1.584	1.773	1.227	1.407	1.745	1.497	1.441	1.513	1.502	1.628	1.051
109	Brookfield Avenue, Salt Creek	1.328	1.943	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	1.043	1.073	1.239	1.595	1.517	1.469	1.198	1.255	1.443	1.033
77	Elmhurst Road, Higgins Creek	0.290	0.117	0.112	0.184	0.221	0.111	0.115	0.152	0.181	0.215	0.151
78	Wille Road, Higgins Creek	0.478	0.864	0.508	0.578	0.671	1.058	0.988	0.525	0.592	0.551	0.393
12	Lake-Cook Road, Buffalo Creek	0.158	0.120	0.075	0.222	0.235	0.150	0.156	0.158	0.125	0.154	0.258
13	Lake-Cook Road, Des Plaines River	1.333	1.268	0.826	0.984	1.261	0.916	0.736	0.700	0.701	1.179	0.780
17	Oakton Street, Des Plaines River	0.958	1.033	0.691	0.705	0.971	0.764	0.615	0.644	0.671	0.527	0.515
19	Belmont Avenue, Des Plaines River	0.852	0.803	0.590	0.914	0.780	0.684	0.630	0.525	0.578	0.795	0.466
20	Roosevelt Road, Des Plaines River	0.891	0.875	0.546	0.583	0.701	0.660	0.667	0.598	0.553	0.751	0.450
22	Ogden Avenue, Des Plaines River	1.272	1.095	0.658	0.732	0.963	0.849	0.885	0.702	0.738	0.935	0.653
23	Willow Springs Road, Des Plaines River	0.919	1.060	0.618	0.762	0.887	0.797	0.816	0.718	0.688	0.858	0.584
29	Stephen Street, Des Plaines River	1.077	0.998	0.672	0.742	0.940	0.788	0.862	0.763	0.828	0.893	0.626
91	Material Service Road, Des Plaines River	1.104	0.969	0.679	0.914	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-71

SOLUBLE PHOSPHORUS MEAN HISTORY THROUGH 2003

Sampling Station		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.340	1.610	ND	ND	ND	2.010	1.847	3.065	0.938
106	Dundee Road, West Fork North Branch Chicago River	ND	ND	0.910	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	ND	ND	0.448	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	ND	ND	0.028	0.082	0.109	0.116	0.127	0.163	0.109	0.106	0.058
104	Glenview Road, North Branch Chicago River	ND	ND	0.530	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	ND	ND	0.026	0.111	0.108	0.095	0.158	0.118	0.104	0.251	0.112
105	Frontage Road, Skokie River	ND	ND	0.633	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	ND	ND	0.418	0.889	0.920	0.705	0.994	0.857	0.795	1.129	0.676
96	Albany Avenue, North Branch Chicago River	ND	ND	0.525	1.103	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	ND	ND	0.053	0.044	0.098	0.103	0.038	0.271	0.058	0.011	0.073
102	Oakton Street, North Shore Channel	ND	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	ND	ND	0.928	0.989	1.066	1.058	0.955	0.872	0.687	0.933	0.741
101	Foster Avenue, North Shore Channel	ND	ND	1.168	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	ND	ND	0.830	0.904	1.160	0.977	0.888	0.801	0.738	0.913	0.709
73	Diversey Parkway, North Branch Chicago River	ND	ND	0.707	0.814	0.917	0.743	0.761	0.606	0.559	0.618	0.530
46	Grand Avenue, North Branch Chicago River	ND	ND	0.682	0.865	0.853	0.873	0.707	0.658	0.692	0.686	0.606
74	Lake Shore Drive, Chicago River	ND	ND	0.390	0.270	0.157	0.150	0.057	0.089	0.069	0.020	0.031
100	Wells Street, Chicago River	ND	ND	0.500	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	ND	ND	0.594	0.730	0.646	0.501	0.345	0.273	0.279	0.298	0.388
108	Loomis Street, South Branch Chicago River	ND	ND	0.555	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	ND	ND	0.490	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	ND	ND	ND	0.703	0.492	0.423	0.426	0.289	0.278	0.467	0.331
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.537	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.646	0.672	0.459	0.378	0.402	0.320	0.348	0.421	0.283
41	Harlem Avenue, Chicago Sanitary & Ship Canal	ND	ND	0.618	0.834	0.754	0.737	0.636	0.528	0.634	0.707	0.433
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	0.646	0.571	0.478	0.502	0.512	0.418	0.451	0.664	0.400
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	0.970	1.071	0.798	0.717	0.888	0.647	0.689	0.876	0.590
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forsbay, Chicago Sanitary & Ship Canal	ND	ND	0.846	1.156	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	ND	ND	0.046	0.053	0.060	0.041	0.059	0.156	0.090	0.025	0.014
50	Burnham Avenue, Wolf Lake	ND	ND	0.032	0.040	0.064	0.041	0.063	0.075	0.047	0.029	0.035
55	130th Street, Calumet River	ND	ND	0.013	0.045	0.080	0.062	0.058	0.093	0.062	0.031	0.021
86	Burnham Avenue, Grand Calumet River	ND	ND	0.155	0.121	0.191	0.329	0.222	0.258	0.127	0.201	0.219
56	Indiana Avenue, Little Calumet River	ND	ND	0.090	0.277	0.110	0.161	0.076	0.110	0.061	0.122	0.141
76	Halsted Street, Little Calumet River	ND	ND	1.372	2.923	2.684	1.533	1.276	1.033	1.457	1.338	1.103
52	Wentworth Avenue, Little Calumet River	ND	ND	0.240	0.384	0.398	0.296	0.313	0.312	0.269	0.346	0.171
54	Joe Orr Road, Thorn Creek	ND	ND	5.608	4.875	2.556	7.365	6.853	5.017	4.928	4.028	4.358
97	170th Street, Thorn Creek	ND	ND	1.620	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	ND	ND	0.915	1.882	1.229	1.275	1.697	1.467	1.231	1.424	0.792
58	Ashland Avenue, Cal-Sag Channel	ND	ND	1.300	2.720	2.077	1.736	1.045	0.906	1.393	1.217	0.797
59	Cicero Avenue, Cal-Sag Channel	ND	ND	1.312	2.794	2.314	1.888	1.586	1.124	1.511	1.393	1.091
43	Route 83, Cal-Sag Channel	ND	ND	1.046	2.306	2.348	1.834	1.738	1.186	1.315	1.388	1.088
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	ND	ND	0.020	0.064	0.070	0.074	0.330	0.117	0.070	0.048	0.029
63	Longmeadow Lane, West Branch DuPage River	ND	ND	0.137	0.060	0.729	0.684	0.608	0.401	0.360	0.725	0.173
89	Walnut Lane, West Branch DuPage River	ND	ND	1.970	1.910	2.243	2.198	2.120	1.728	2.031	2.163	1.272
64	Lake Street, West Branch DuPage River	ND	ND	1.772	1.383	1.712	2.048	1.772	1.461	1.708	1.849	1.143
79	Higgins Road, Salt Creek	ND	ND	0.000	0.039	0.074	0.109	0.068	0.086	0.056	0.039	0.021
80	Arlington Heights Road, Salt Creek	ND	ND	1.265	1.488	1.843	1.751	1.227	1.294	1.743	1.744	0.800
18	Devon Avenue, Salt Creek	ND	ND	1.287	1.447	1.868	1.686	1.098	1.440	1.778	1.706	0.830
24	Wolf Road, Salt Creek	ND	ND	0.987	1.094	1.369	1.240	1.150	1.058	1.241	1.445	0.861
109	Brookfield Avenue, Salt Creek	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	ND	0.937	0.945	1.275	1.300	1.187	0.848	1.066	1.259	0.803
77	Elmhurst Road, Higgins Creek	ND	ND	0.026	0.044	0.071	0.073	0.104	0.078	0.068	0.047	0.068
78	Wille Road, Higgins Creek	ND	ND	0.265	0.385	0.506	0.823	0.713	0.363	0.480	0.495	0.328
12	Lake-Cook Road, Buffalo Creek	ND	ND	0.030	0.037	0.081	0.062	0.075	0.083	0.066	0.048	0.113
13	Lake-Cook Road, Des Plaines River	ND	ND	0.412	0.716	1.047	0.736	0.575	0.552	0.603	1.066	0.492
17	Oakton Street, Des Plaines River	ND	ND	0.352	0.480	0.741	0.563	0.440	0.458	0.505	0.440	0.390
19	Belmont Avenue, Des Plaines River	ND	ND	0.315	0.420	0.609	0.503	0.448	0.387	0.420	0.622	0.331
20	Roosevelt Road, Des Plaines River	ND	ND	0.313	0.416	0.562	0.523	0.462	0.387	0.407	0.615	0.308
22	Ogden Avenue, Des Plaines River	ND	ND	0.443	0.557	0.769	0.688	0.634	0.459	0.596	0.759	0.469
23	Willow Springs Road, Des Plaines River	ND	ND	0.443	0.544	0.679	0.629	0.621	0.459	0.511	0.671	0.432
29	Stephen Street, Des Plaines River	ND	ND	0.488	0.575	0.664	0.588	0.641	0.484	0.644	0.698	0.438
91	Material Service Road, Des Plaines River	ND	ND	0.380	0.711	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-72

TOTAL CYANIDE MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.006	0.009	ND	ND	ND	0.007	0.008	0.011	0.006
106	Dundee Road, West Fork North Branch Chicago River	0.002	0.003	0.005	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.001	0.002	0.001	0.002	0.002	0.002	0.002	0.006	0.002	0.004	0.003
104	Glenview Road, North Branch Chicago River	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.002	0.002	0.002	0.003	0.003	0.001	0.002	0.001	0.002	0.003	0.003
105	Frontage Road, Skokie River	0.002	0.002	0.004	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.003	0.008	0.004	0.006	0.005	0.004	0.005	0.004	0.003	0.005	0.005
96	Albany Avenue, North Branch Chicago River	0.002	0.002	0.004	0.005	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.001	0.000	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.001	0.002
102	Oakton Street, North Shore Channel	0.002	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.003	0.004	0.006	0.006	0.005	0.006	0.007	0.006	0.004	0.006	0.006
101	Foster Avenue, North Shore Channel	0.003	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.003	0.004	0.005	0.006	0.007	0.006	0.005	0.005	0.005	0.006	0.006
73	Diversey Parkway, North Branch Chicago River	0.003	0.003	0.006	0.012	0.008	0.005	0.008	0.005	0.004	0.006	0.007
46	Grand Avenue, North Branch Chicago River	0.003	0.004	0.005	0.006	0.007	0.007	0.005	0.005	0.004	0.008	0.009
74	Lake Shore Drive, Chicago River	0.000	0.001	0.002	0.003	0.001	0.002	0.009	0.001	0.000	0.002	0.002
100	Wells Street, Chicago River	0.002	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.004	0.004	0.004	0.005	0.005	0.004	0.003	0.002	0.002	0.004	0.006
108	Loomis Street, South Branch Chicago River	0.003	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.003	0.003	0.005	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.003	ND	ND	0.005	0.005	0.004	0.004	0.004	0.003	0.004	0.005
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.003	0.004	0.004	0.005	0.004	0.003	0.004	0.003	0.004	0.006
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.005	0.006	0.007	0.006	0.007	0.006	0.007	0.005	0.008	0.008
42	Route 83, Chicago Sanitary & Ship Canal	0.004	0.005	0.006	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.007
48	Stephen Street, Chicago Sanitary & Ship Canal	0.003	0.006	0.007	0.007	0.007	0.009	0.007	0.008	0.008	0.008	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	0.003	0.005	0.006	0.007	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.001	0.001	0.002	0.001	0.001	0.001	0.003	0.001	0.002	0.003	0.002
50	Burnham Avenue, Wolf Lake	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.002
55	130th Street, Calumet River	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.003	0.003
86	Burnham Avenue, Grand Calumet River	0.005	0.006	0.010	0.009	0.008	0.011	0.010	0.009	0.013	0.010	0.009
56	Indiana Avenue, Little Calumet River	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.005	0.005
76	Halsted Street, Little Calumet River	0.003	0.005	0.007	0.010	0.010	0.008	0.006	0.013	0.013	0.014	0.019
52	Wentworth Avenue, Little Calumet River	0.005	0.006	0.009	0.061	0.040	0.027	0.005	0.015	0.014	0.015	0.009
54	Joe Orr Road, Thorn Creek	0.003	0.006	0.005	0.008	0.007	0.008	0.007	0.008	0.007	0.008	0.008
97	170th Street, Thorn Creek	0.002	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.004	0.005	0.005	0.008	0.009	0.008	0.005	0.007	0.009	0.009	0.007
58	Ashland Avenue, Cal-Sag Channel	0.003	0.005	0.007	0.009	0.009	0.008	0.006	0.010	0.012	0.011	0.010
59	Cicero Avenue, Cal-Sag Channel	0.003	0.005	0.006	0.008	0.008	0.009	0.006	0.009	0.013	0.012	0.011
43	Route 83, Cal-Sag Channel	0.002	0.004	0.006	0.007	0.007	0.009	0.006	0.008	0.010	0.010	0.010
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.002	0.003
63	Longmeadow Lane, West Branch DuPage River	0.002	ND	0.004	0.002	0.007	0.005	0.004	0.005	0.006	0.007	0.008
89	Walnut Lane, West Branch DuPage River	0.005	0.007	0.010	0.008	0.012	0.011	0.010	0.008	0.011	0.011	0.008
64	Lake Street, West Branch DuPage River	0.004	0.005	0.008	0.007	0.009	0.009	0.008	0.008	0.010	0.011	0.010
79	Higgins Road, Salt Creek	0.002	0.002	0.003	0.002	0.004	0.002	0.002	0.003	0.004	0.002	0.005
80	Arlington Heights Road, Salt Creek	0.003	0.005	0.008	0.007	0.010	0.009	0.006	0.007	0.007	0.007	0.006
18	Devon Avenue, Salt Creek	0.003	0.005	0.008	0.006	0.009	0.008	0.006	0.007	0.007	0.007	0.007
24	Wolf Road, Salt Creek	0.003	0.004	0.006	0.004	0.007	0.006	0.006	0.006	0.006	0.006	0.006
109	Brookfield Avenue, Salt Creek	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.006	0.005	0.004	0.006	0.006	0.006	0.005	0.006	0.006	0.006
77	Elmhurst Road, Higgins Creek	0.003	0.004	0.003	0.004	0.003	0.003	0.003	0.004	0.003	0.004	0.005
78	Wille Road, Higgins Creek	0.004	0.005	0.007	0.006	0.011	0.008	0.008	0.006	0.008	0.010	0.007
12	Lake-Cook Road, Buffalo Creek	0.001	0.001	0.003	0.002	0.003	0.002	0.001	0.002	0.002	0.002	0.004
13	Lake-Cook Road, Des Plaines River	0.002	0.003	0.006	0.005	0.010	0.005	0.005	0.005	0.006	0.007	0.011
17	Oakton Steet, Des Plaines River	0.002	0.003	0.005	0.004	0.009	0.005	0.004	0.005	0.006	0.003	0.006
19	Belmont Avenue, Des Plaines River	0.003	0.003	0.005	0.004	0.005	0.004	0.005	0.005	0.006	0.006	0.005
20	Roosevelt Road, Des Plaines River	0.002	0.004	0.005	0.004	0.005	0.004	0.005	0.004	0.005	0.006	0.005
22	Ogden Avenue, Des Plaines River	0.003	0.003	0.005	0.003	0.006	0.005	0.005	0.004	0.005	0.006	0.006
23	Willow Springs Road, Des Plaines River	0.002	0.003	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.008	0.005
29	Stephen Street, Des Plaines River	0.002	0.004	0.004	0.004	0.005	0.006	0.005	0.005	0.006	0.005	0.006
91	Material Service Road, Des Plaines River	0.002	0.004	0.004	0.005	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-73

WEAK ACID DISSOCIABLE CYANIDE MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.000	0.001	ND	ND	ND	0.001	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.001	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
105	Frontage Road, Skokie River	0.001	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.001	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Branch 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	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.001	0.001	0.001	0.003	0.001	0.000	0.002	0.001	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	ND	ND	ND
100	Wells Street, Chicago River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.001	ND	ND	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.001	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND
55	130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	ND	ND	ND
76	Halsted Street, Little Calumet River	0.001	0.001	0.001	0.002	0.003	0.001	0.001	0.003	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.001	0.001	0.001	0.009	0.008	0.004	0.001	0.004	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	ND	ND	ND
97	170th Street, Thorn Creek	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.001	0.001	0.001	0.002	0.003	0.001	0.001	0.002	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.001	ND	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.002	0.003	0.002	0.001	0.002	0.001	0.002	0.001	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
79	Higgins Road, Salt Creek	0.001	0.001	0.001	0.000	0.002	0.000	0.001	0.001	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.001	0.002	0.002	0.001	0.002	0.002	0.001	0.002	ND	ND	ND
18	Devon Avenue, Salt Creek	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	ND	ND	ND
24	Wolf Road, Salt Creek	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.001	0.001	0.001	0.000	0.001	0.001	0.001	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	ND	ND	ND
78	Wille Road, Higgins Creek	0.001	0.001	0.001	0.001	0.005	0.001	0.002	0.001	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.001	0.000	0.001	0.000	0.001	0.000	0.000	0.001	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.001	0.001	0.001	0.000	0.004	0.000	0.001	0.001	ND	ND	ND
17	Oakton Street, Des Plaines River	0.001	0.001	0.001	0.000	0.006	0.000	0.000	0.001	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	ND	ND	ND
29	Stephen Street, Des Plaines River	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	ND	ND	ND
91	Material Service Road, Des Plaines River	0.001	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-74

FLUORIDE MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.240	0.710	ND	ND	ND	0.572	0.609	0.820	0.470
106	Dundee Road, West Fork North Branch Chicago River	0.450	0.433	0.408	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.394	0.425	0.387	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.334	0.343	0.266	0.310	0.312	0.306	0.430	0.337	0.277	0.373	0.328
104	Glenview Road, North Branch Chicago River	0.460	0.617	0.464	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.364	0.354	0.247	0.315	0.373	0.286	0.391	0.342	0.331	0.359	0.355
105	Frontage Road, Skokie River	0.686	0.703	0.500	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.581	0.605	0.378	0.577	0.604	0.488	0.625	0.525	0.469	0.594	0.437
96	Albany Avenue, North Branch Chicago River	0.528	0.567	0.446	0.642	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.233	0.307	0.138	0.187	0.184	0.158	0.200	0.187	0.134	0.110	0.215
102	Oakton Street, North Shore Channel	0.376	0.512	0.238	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.721	0.749	0.694	0.812	0.781	0.778	0.705	0.760	0.562	0.767	0.570
101	Foster Avenue, North Shore Channel	0.717	0.745	0.722	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.678	0.693	0.623	0.779	0.758	0.748	0.728	0.725	0.604	0.683	0.709
73	Diversey Parkway, North Branch Chicago River	0.688	0.684	0.648	0.765	0.765	0.740	0.634	0.730	0.601	0.704	0.613
46	Grand Avenue, North Branch Chicago River	0.690	0.717	0.665	0.783	0.768	0.697	0.752	0.713	0.621	0.744	0.665
74	Lake Shore Drive, Chicago River	0.250	0.238	0.353	0.358	0.235	0.195	0.260	0.136	0.122	0.124	0.247
100	Wells Street, Chicago River	0.458	0.423	0.363	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.665	0.590	0.537	0.645	0.607	0.475	0.372	0.380	0.380	0.426	0.388
108	Loomis Street, South Branch Chicago River	0.596	0.581	0.543	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.578	0.565	0.595	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.592	ND	ND	0.667	0.537	0.468	0.456	0.427	0.408	0.526	0.423
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.532	0.538	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.578	0.578	0.471	0.617	0.513	0.434	0.437	0.448	0.401	0.478	0.446
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.727	0.743	0.633	0.781	0.743	0.705	0.701	0.667	0.594	0.691	0.592
42	Route 83, Chicago Sanitary & Ship Canal	0.825	0.809	0.715	0.806	0.778	0.742	0.726	0.724	0.635	0.726	0.647
48	Stephen Street, Chicago Sanitary & Ship Canal	0.800	0.809	0.752	0.799	0.729	0.697	0.742	0.682	0.633	0.750	0.650
82	Lockport Treblex, Chicago Sanitary & Ship Canal	ND	ND	ND	0.914	0.865	0.791	0.725	0.744	0.789	0.765	0.699
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.769	0.802	0.751	0.810	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.150	0.188	0.144	0.148	0.135	0.216	0.187	0.136	0.125	0.153	0.236
50	Burnham Avenue, Wolf Lake	0.223	0.213	0.208	0.200	0.237	0.198	0.267	0.177	0.213	0.401	0.272
55	130th Street, Calumet River	0.312	0.248	0.247	0.230	0.301	0.243	0.238	0.199	0.207	0.223	0.343
86	Burnham Avenue, Grand Calumet River	0.812	0.873	0.783	0.823	0.711	0.845	0.940	0.927	0.935	0.851	0.697
56	Indiana Avenue, Little Calumet River	0.375	0.394	0.375	0.382	0.317	0.422	0.439	0.314	0.281	0.446	0.437
76	Halsted Street, Little Calumet River	0.665	0.633	0.730	0.891	0.759	0.760	0.790	0.752	0.756	0.798	0.713
52	Wentworth Avenue, Little Calumet River	2.838	12.390	4.096	4.255	1.980	1.061	1.534	1.146	1.507	1.912	1.009
54	Joe Orr Road, Thorn Creek	0.483	0.746	0.674	0.737	0.596	0.594	0.747	0.692	0.639	0.663	0.593
97	170th Street, Thorn Creek	0.634	1.613	0.520	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1.107	2.865	1.627	1.609	0.722	0.730	0.784	0.628	0.747	0.772	0.563
58	Ashland Avenue, Cal-Sag Channel	1.020	1.188	0.828	0.935	0.631	0.750	0.810	0.799	0.685	0.705	0.600
59	Cicero Avenue, Cal-Sag Channel	0.719	0.935	0.935	0.916	0.647	0.737	0.678	0.715	0.715	0.733	0.667
43	Route 83, Cal-Sag Channel	0.659	0.925	0.805	0.827	0.650	0.652	0.726	0.681	0.596	0.681	0.609
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.206	0.234	0.257	0.171	0.192	0.191	0.237	0.185	0.190	0.165	0.197
63	Longmeadow Lane, West Branch DuPage River	0.170	ND	0.295	0.303	0.419	0.453	0.235	0.300	0.375	0.334	0.302
89	Walnut Lane, West Branch DuPage River	0.625	0.744	0.721	0.723	0.719	0.844	0.650	0.572	0.718	0.702	0.533
64	Lake Street, West Branch DuPage River	0.601	0.631	0.540	0.587	0.598	1.061	0.538	0.557	0.657	0.680	0.495
79	Riggins Road, Salt Creek	0.191	0.238	0.253	0.294	0.282	0.328	0.203	0.215	0.217	0.220	0.255
80	Arlington Heights Road, Salt Creek	0.547	0.602	0.573	0.643	0.595	0.851	0.617	0.576	0.597	0.538	0.354
18	Devon Avenue, Salt Creek	0.568	0.578	0.558	0.608	0.628	0.744	0.474	0.576	0.572	0.528	0.356
24	Wolf Road, Salt Creek	0.542	0.634	0.523	0.542	0.600	0.586	0.504	0.583	0.591	0.532	0.411
109	Brookfield Avenue, Salt Creek	0.474	0.698	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.447	0.499	0.486	0.607	0.753	0.531	0.551	0.600	0.520	0.416
77	Elmhurst Road, Higgins Creek	0.222	0.208	0.315	0.317	0.207	0.257	0.184	0.185	0.211	0.186	0.224
78	Wille Road, Higgins Creek	0.858	0.788	0.762	0.746	0.745	0.773	0.750	0.635	0.813	0.833	0.683
12	Lake-Cook Road, Buffalo Creek	0.206	0.224	0.252	0.259	0.207	0.346	0.180	0.199	0.189	0.182	0.279
13	Lake-Cook Road, Des Plaines River	0.525	0.508	0.393	0.402	0.458	0.560	0.450	0.466	0.427	0.530	0.355
17	Oakton Street, Des Plaines River	0.459	0.459	0.367	0.400	0.472	0.497	0.328	0.397	0.380	0.260	0.355
19	Belmont Avenue, Des Plaines River	0.541	0.502	0.425	0.459	0.506	0.563	0.384	0.435	0.465	0.507	0.371
20	Roosevelt Road, Des Plaines River	0.496	0.516	0.464	0.526	0.455	0.546	0.384	0.451	0.455	0.513	0.339
22	Ogden Avenue, Des Plaines River	0.592	0.541	0.408	0.410	0.514	0.524	0.418	0.446	0.483	0.502	0.363
23	Willow Springs Road, Des Plaines River	0.488	0.557	0.420	0.488	0.488	0.485	0.415	0.478	0.483	0.480	0.379
29	Stephen Street, Des Plaines River	0.536	0.516	0.386	0.486	0.514	0.543	0.429	0.461	0.525	0.498	0.391
91	Material Service Road, Des Plaines River	0.545	0.518	0.377	0.490	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-75

TOTAL ORGANIC CARBON MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	7.50	7.00	ND	ND	ND	10.75	8.56	8.00	16.56
106	Durdee Road, West Fork North Branch Chicago River	10.67	9.50	12.60	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	8.88	9.36	8.40	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	11.00	11.40	9.73	12.40	13.36	11.67	11.40	15.25	10.70	10.90	10.83
104	Glenview Road, North Branch Chicago River	9.00	8.00	8.10	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	9.89	10.60	9.36	12.30	11.27	13.83	12.80	13.75	10.89	11.00	9.83
105	Frontage Road, Skokie River	7.75	8.92	7.60	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	8.82	8.50	7.83	10.73	9.82	11.58	12.82	12.83	8.90	9.27	9.17
96	Albany Avenue, North Branch Chicago River	9.30	8.92	8.33	8.33	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Branch Channel	4.89	5.33	3.33	5.67	6.30	7.00	7.70	9.11	5.00	4.25	4.33
102	Oakton Street, North Shore Channel	7.44	7.27	4.20	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	8.92	8.83	8.00	10.58	9.92	9.08	14.00	11.92	8.17	8.73	8.18
101	Foster Avenue, North Shore Channel	8.42	8.67	7.60	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	8.67	9.17	7.75	10.17	9.08	9.25	11.92	13.00	8.25	8.08	9.25
73	Diversey Parkway, North Branch Chicago River	8.92	9.25	7.92	10.33	9.25	9.17	13.25	12.08	8.42	8.33	8.58
46	Grand Avenue, North Branch Chicago River	8.92	8.50	7.83	9.92	8.83	9.00	10.36	12.17	9.00	8.51	11.17
74	Lake Shore Drive, Chicago River	4.30	4.42	4.58	6.58	4.91	5.17	7.91	6.27	4.70	4.20	4.25
100	Wells Street, Chicago River	6.25	5.33	4.71	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	7.91	7.75	6.67	9.08	8.00	7.33	7.82	9.92	6.00	8.40	7.42
108	Loomis Street, South Branch Chicago River	8.00	7.00	6.22	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	7.83	8.17	8.50	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	7.67	ND	ND	12.78	8.00	7.83	10.67	10.50	7.00	6.75	7.33
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	7.58	6.90	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	7.33	7.50	6.58	8.58	7.25	10.33	9.45	10.67	7.00	6.92	7.17
41	Harlem Avenue, Chicago Sanitary & Ship Canal	8.25	7.92	7.25	9.75	8.45	13.67	11.18	12.17	7.67	8.25	8.58
42	Route 83, Chicago Sanitary & Ship Canal	8.00	8.83	7.67	12.55	8.83	11.83	15.00	12.33	7.63	8.80	8.67
48	Stephen Street, Chicago Sanitary & Ship Canal	7.92	8.67	7.92	10.09	9.36	12.08	11.82	12.25	9.00	9.00	9.58
82	Lockport Trembler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	8.29	8.26	7.59	9.62	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	3.17	3.75	3.25	6.67	4.00	4.39	7.32	6.67	4.91	4.36	4.33
50	Burnham Avenue, Wolf Lake	6.17	5.50	5.18	6.92	6.42	6.67	8.25	8.67	7.33	8.25	7.42
55	130th Street, Calumet River	4.70	4.92	4.73	6.27	5.61	5.61	7.43	6.87	5.45	5.00	5.58
86	Burnham Avenue, Grand Calumet River	12.90	11.36	9.90	14.18	12.18	11.17	18.25	19.45	14.33	15.33	13.33
56	Indiana Avenue, Little Calumet River	5.64	6.42	5.75	7.67	6.68	6.73	11.24	9.27	6.91	7.73	8.33
76	Halsted Street, Little Calumet River	8.45	8.33	7.50	10.92	9.26	9.13	13.52	13.75	9.42	9.92	10.00
52	Wentworth Avenue, Little Calumet River	11.60	10.73	10.18	12.82	11.64	11.75	18.25	15.44	11.10	11.09	11.42
54	Joe Orr Road, Thorn Creek	9.67	10.43	9.08	12.75	10.25	11.17	13.50	16.17	12.90	11.92	12.08
97	170th Street, Thorn Creek	9.60	9.17	9.10	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	9.60	9.00	9.10	12.73	11.09	10.08	13.42	14.44	10.55	11.00	10.91
58	Ashland Avenue, Cal-Sag Channel	8.50	8.75	8.25	11.58	9.42	8.67	14.47	11.94	8.64	9.33	9.75
59	Cicero Avenue, Cal-Sag Channel	8.64	8.67	8.17	11.50	9.74	10.00	13.38	12.75	11.98	10.42	10.25
43	Route 83, Cal-Sag Channel	8.55	8.25	8.25	17.25	9.37	9.65	12.29	11.88	11.98	10.00	10.00
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	9.90	9.22	8.82	12.29	8.70	9.90	10.88	13.73	11.40	10.27	10.82
63	Longmeadow Lane, West Branch DuPage River	12.00	ND	12.75	13.78	12.67	14.43	14.40	15.18	12.00	13.30	12.83
89	Walnut Lane, West Branch DuPage River	11.91	11.75	11.17	12.75	11.45	14.09	12.36	14.17	13.90	11.75	11.75
64	Lake Street, West Branch DuPage River	10.83	10.25	10.64	12.64	10.73	12.00	12.73	13.36	10.75	11.82	11.56
79	Higgins Road, Salt Creek	9.56	10.00	9.20	11.40	10.50	11.22	12.10	15.60	10.80	10.90	9.73
80	Arlington Heights Road, Salt Creek	9.92	10.50	9.83	10.67	9.82	11.00	12.27	13.58	10.50	9.90	9.92
18	Devon Avenue, Salt Creek	10.08	9.80	9.42	10.58	9.91	10.82	12.55	14.09	10.08	9.92	10.00
24	Wolf Road, Salt Creek	8.67	8.45	8.33	10.80	8.64	10.50	10.09	13.33	9.75	9.55	9.33
109	Brookfield Avenue, Salt Creek	8.70	8.83	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	9.67	8.50	10.10	8.27	10.00	9.90	12.67	9.42	9.55	8.83
77	Elmhurst Road, Higgins Creek	10.40	9.83	10.09	11.80	10.82	11.00	11.00	14.50	10.50	11.09	8.50
78	Wille Road, Higgins Creek	10.25	9.83	9.92	12.08	10.18	12.00	12.82	13.00	11.25	10.73	10.17
12	Lake-Cook Road, Buffalo Creek	11.50	12.29	9.55	11.90	10.00	12.30	12.20	15.17	11.92	11.10	11.67
13	Lake-Cook Road, Des Plaines River	9.67	9.25	8.67	11.17	9.73	11.00	12.80	13.33	11.67	10.44	10.50
17	Oakton Street, Des Plaines River	9.40	9.55	8.83	11.40	9.82	10.82	12.80	13.50	11.00	9.67	10.00
19	Belmont Avenue, Des Plaines River	9.50	9.67	8.92	11.10	9.55	11.18	11.73	14.00	10.75	10.83	10.00
20	Roosevelt Road, Des Plaines River	9.00	9.33	8.75	11.20	9.91	11.36	11.91	14.17	11.08	10.92	9.75
22	Ogden Avenue, Des Plaines River	9.20	9.25	8.50	10.80	9.73	10.82	12.36	14.23	10.50	10.18	9.83
23	Willow Springs Road, Des Plaines River	9.10	9.00	9.67	10.40	9.27	10.55	12.10	11.91	9.91	10.64	9.33
29	Stephen Street, Des Plaines River	9.36	9.00	9.25	9.60	9.09	11.36	13.45	13.58	10.55	10.45	9.58
91	Material Service Road, Des Plaines River	8.92	8.83	8.63	11.46	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-76

FECAL COLIFORM MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Geometric Means (cfu/100ml)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	2683	4000	ND	ND	ND	2228	2476	3098	3103
106	Dundee Road, West Fork North Branch Chicago River	3740	1344	1782	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	839	704	854	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	773	1143	767	1050	1697	1210	2139	1556	1815	2089	1799
104	Glenview Road, North Branch Chicago River	777	904	1112	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	546	718	1750	1131	1919	1718	2903	2578	6993	8480	25862
105	Frontage Road, Skokie River	225	357	490	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	1333	924	1377	1484	1498	878	769	1851	1507	1083	1459
96	Albany Avenue, North Branch Chicago River	1498	1508	2517	4238	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Branch Channel	291	483	356	270	130	241	88	366	642	107	200
102	Oakton Street, North Shore Channel	1487	1954	580	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	7588	8349	4211	9424	7866	6963	10671	12203	11261	12771	7266
101	Foster Avenue, North Shore Channel	7917	10250	8703	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	5940	7358	5958	7677	7686	7000	7034	7007	10755	10780	7966
73	Diverser Parkway, North Branch Chicago River	4228	5833	3832	5539	4607	3796	4454	4773	5378	8197	8528
46	Grand Avenue, North Branch Chicago River	2402	1919	1840	1715	1522	1636	3288	1711	2413	2986	5927
74	Lake Shore Drive, Chicago River	53	36	66	91	23	62	37	38	59	54	47
100	Wells Street, Chicago River	301	288	159	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	799	800	1622	1090	642	800	838	380	1491	1110	2188
108	Loomis Street, South Branch Chicago River	181	253	325	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	294	548	1530	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	173	ND	ND	160	282	510	543	441	1444	369	1169
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	180	393	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	153	245	303	154	327	352	245	481	1037	352	1053
41	Harlem Avenue, Chicago Sanitary & Ship Canal	4314	3609	4126	5043	4970	5427	5730	5361	3750	3231	8150
42	Route 03, Chicago Sanitary & Ship Canal	866	460	1580	1046	886	1300	1941	951	1815	1407	1520
48	Stephen Street, Chicago Sanitary & Ship Canal	345	419	812	537	781	849	867	948	1160	1154	1197
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	179	159	291	256	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	12	12	20	18	12	27	13	21	49	66	36
50	Burnham Avenue, Wolf Lake	37	13	32	24	15	13	18	9	13	18	15
55	130th Street, Calumet River	32	19	82	53	23	26	30	47	54	118	40
86	Burnham Avenue, Grand Calumet River	1695	488	2056	3323	4100	4325	1849	3383	3551	2874	3904
56	Indiana Avenue, Little Calumet River	75	89	364	124	55	130	78	167	120	192	265
76	Halsted Street, Little Calumet River	2990	2024	2550	4774	3792	3747	2927	7302	4806	6861	7964
52	Wentworth Avenue, Little Calumet River	2247	976	2211	3501	1701	2033	1402	1242	1264	1416	4149
54	Joe Orr Road, Thorn Creek	2922	1083	1083	2617	2173	1132	6513	3287	3992	2555	3651
97	170th Street, Thorn Creek	1347	637	1197	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	2329	576	1623	3088	5189	1724	2531	1683	1328	2040	3258
58	Ashland Avenue, Cal-Sag Channel	2135	1157	3095	3170	2660	2220	4858	4189	6904	4932	5363
59	Cicero Avenue, Cal-Sag Channel	1105	471	1057	656	673	749	2165	2823	1964	3140	2911
43	Route 83, Cal-Sag Channel	103	93	298	79	87	201	227	654	466	629	1054
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	387	113	129	948	146	136	355	388	776	410	417
63	Longmeadow Lane, West Branch DuPage River	1400	ND	1075	2538	386	603	1624	6965	1113	1478	1575
89	Walnut Lane, West Branch DuPage River	2181	1600	1273	1943	590	666	1816	7295	1903	2319	2612
64	Lake Street, West Branch DuPage River	1731	1532	1739	1889	658	1083	1564	6738	1750	3409	3522
79	Higgins Road, Salt Creek	568	82	49	305	45	52	97	307	69	112	1041
80	Arlington Heights Road, Salt Creek	678	303	426	623	265	260	725	632	1050	552	490
18	Devon Avenue, Salt Creek	1668	939	1140	807	687	1154	845	2137	1431	2030	1248
24	Wolf Road, Salt Creek	2012	440	507	1109	468	1038	2552	2257	2166	1198	2655
109	Brookfield Avenue, Salt Creek	3461	2056	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	782	599	1459	1320	653	1211	2706	1070	1282	7453
77	Elmhurst Road, Higgins Creek	7317	2395	598	636	369	267	498	2404	1333	1016	795
78	Wille Road, Higgins Creek	559	475	256	536	223	181	489	1019	399	804	858
12	Lake-Cook Road, Buffalo Creek	764	485	287	279	230	186	504	722	402	718	301
13	Lake-Cook Road, Des Plaines River	566	284	269	440	350	392	735	945	698	637	780
17	Oakton Street, Des Plaines River	1128	345	492	915	765	360	876	1652	613	894	1377
19	Belmont Avenue, Des Plaines River	1021	709	440	734	1210	574	1780	4059	3442	2511	3047
20	Roosevelt Road, Des Plaines River	1309	913	422	790	1224	725	1979	3175	3101	1762	5012
22	Ogden Avenue, Des Plaines River	1023	900	519	1121	609	538	1722	4029	1666	848	5337
23	Willow Springs Road, Des Plaines River	1664	351	232	835	367	423	533	1020	458	696	2856
29	Stephen Street, Des Plaines River	568	276	275	528	270	241	921	405	305	325	2006
91	Material Service Road, Des Plaines River	564	122	367	295	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-77

ESCHERICHIA COLI MEAN HISTORY THROUGH 2003

Sampling Station No. Name	Annual Geometric Means (cfu/100ml)										
	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>											
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	5099	ND	1232	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	380	506	541	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	319	429	467	ND	ND	ND	ND	ND	ND	ND	ND
104 Glenview Road, North Branch Chicago River	180	254	629	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	418	581	905	ND	ND	ND	ND	ND	ND	ND	ND
105 Frontage Road, Skokie River	134	367	634	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	1110	534	812	ND	ND	ND	ND	ND	ND	ND	ND
96 Albany Avenue, North Branch Chicago River	934	1553	9471	ND	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	271	4382	139	ND	ND	ND	ND	ND	ND	ND	ND
102 Oakton Street, North Shore Channel	4035	1408	217	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	7271	9539	861	ND	ND	ND	ND	ND	ND	ND	ND
101 Foster Avenue, North Shore Channel	8204	14164	8842	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	7083	9158	3387	ND	ND	ND	ND	ND	ND	ND	ND
73 Diversey Parkway, North Branch Chicago River	4688	6747	2627	ND	ND	ND	ND	ND	ND	ND	ND
46 Grand Avenue, North Branch Chicago River	2882	2128	1123	ND	ND	ND	ND	ND	ND	ND	ND
74 Lake Shore Drive, Chicago River	44	20	24	ND	ND	ND	ND	ND	ND	ND	ND
100 Wells Street, Chicago River	231	307	175	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	427	565	417	ND	ND	ND	ND	ND	ND	ND	ND
108 Loomis Street, South Branch Chicago River	70	176	183	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	251	173	810	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	342	77	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	94	224	67	ND	ND	ND	ND	ND	ND	ND	ND
41 Harlem Avenue, Chicago Sanitary & Ship Canal	2488	2925	3795	ND	ND	ND	ND	ND	ND	ND	ND
42 Route 83, Chicago Sanitary & Ship Canal	787	715	2345	ND	ND	ND	ND	ND	ND	ND	ND
48 Stephen Street, Chicago Sanitary & Ship Canal	322	530	922	ND	ND	ND	ND	ND	ND	ND	ND
82 Lockport Trestler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92 Lockport Forebay, Chicago Sanitary & Ship Canal	81	177	69	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	14	10	10	ND	ND	ND	ND	ND	ND	ND	ND
50 Burnham Avenue, Wolf Lake	58	12	9	ND	ND	ND	ND	ND	ND	ND	ND
55 130th Street, Calumet River	90	14	10	ND	ND	ND	ND	ND	ND	ND	ND
86 Burnham Avenue, Grand Calumet River	6709	449	220	ND	ND	ND	ND	ND	ND	ND	ND
56 Indiana Avenue, Little Calumet River	142	101	228	ND	ND	ND	ND	ND	ND	ND	ND
76 Halsted Street, Little Calumet River	2787	1815	3240	ND	ND	ND	ND	ND	ND	ND	ND
52 Wentworth Avenue, Little Calumet River	1169	846	3688	ND	ND	ND	ND	ND	ND	ND	ND
54 Joe Orr Road, Thorn Creek	22000	721	1339	ND	ND	ND	ND	ND	ND	ND	ND
97 170th Street, Thorn Creek	2984	529	2237	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	2705	615	1622	ND	ND	ND	ND	ND	ND	ND	ND
58 Ashland Avenue, Cal-Sag Channel	1264	690	2661	ND	ND	ND	ND	ND	ND	ND	ND
59 Cicero Avenue, Cal-Sag Channel	418	500	271	ND	ND	ND	ND	ND	ND	ND	ND
43 Route 83, Cal-Sag Channel	39	75	145	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	103	82	251	ND	ND	ND	ND	ND	ND	ND	ND
63 Longmeadow Lane, West Branch DuPage River	ND	ND	1259	ND	ND	ND	ND	ND	ND	ND	ND
89 Walnut Lane, West Branch DuPage River	2139	1366	395	ND	ND	ND	ND	ND	ND	ND	ND
64 Lake Street, West Branch DuPage River	1357	1150	1102	ND	ND	ND	ND	ND	ND	ND	ND
79 Higgins Road, Salt Creek	423	61	34	ND	ND	ND	ND	ND	ND	ND	ND
80 Arlington Heights Road, Salt Creek	552	209	294	ND	ND	ND	ND	ND	ND	ND	ND
18 Devon Avenue, Salt Creek	2722	1146	3950	ND	ND	ND	ND	ND	ND	ND	ND
24 Wolf Road, Salt Creek	7589	336	30	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	330	375	ND	ND	ND	ND	ND	ND	ND	ND
77 Elmhurst Road, Higgins Creek	5717	2097	687	ND	ND	ND	ND	ND	ND	ND	ND
78 Willie Road, Higgins Creek	539	425	71	ND	ND	ND	ND	ND	ND	ND	ND
12 Lake-Cook Road, Buffalo Creek	737	101	50	ND	ND	ND	ND	ND	ND	ND	ND
13 Lake-Cook Road, Des Plaines River	223	569	163	ND	ND	ND	ND	ND	ND	ND	ND
17 Oakton Street, Des Plaines River	147	553	185	ND	ND	ND	ND	ND	ND	ND	ND
19 Belmont Avenue, Des Plaines River	277	1018	202	ND	ND	ND	ND	ND	ND	ND	ND
20 Roosevelt Road, Des Plaines River	773	903	419	ND	ND	ND	ND	ND	ND	ND	ND
22 Ogden Avenue, Des Plaines River	88	837	515	ND	ND	ND	ND	ND	ND	ND	ND
23 Willow Springs Road, Des Plaines River	1220	506	253	ND	ND	ND	ND	ND	ND	ND	ND
29 Stephen Street, Des Plaines River	117	641	273	ND	ND	ND	ND	ND	ND	ND	ND
91 Metexiel Service Road, Des Plaines River	363	90	644	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-78

TOTAL CALCIUM MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	106.6	80.3	ND	ND	ND	71.0	61.3	127.0	82.1
106	Dundee Road, West Fork North Branch Chicago River	54.9	79.0	79.8	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	70.9	72.8	71.0	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	64.1	71.9	74.2	66.0	69.1	71.3	65.5	73.1	62.6	76.6	70.6
104	Glenview Road, North Branch Chicago River	65.5	69.0	68.8	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	69.8	75.4	79.4	73.1	70.0	82.2	76.6	83.8	64.9	79.8	79.2
105	Frontage Road, Skokie River	59.9	67.7	66.2	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	65.7	70.0	70.6	63.8	64.7	69.0	70.2	71.5	62.2	72.8	65.5
96	Albany Avenue, North Branch Chicago River	64.6	69.2	72.8	56.6	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	41.0	43.6	37.7	43.4	43.4	45.1	42.6	48.2	39.6	39.0	39.3
102	Oakton Street, North Shore Channel	50.4	51.9	42.6	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	53.4	58.5	61.8	52.9	56.5	58.7	55.3	56.0	55.7	59.0	55.2
101	Foster Avenue, North Shore Channel	54.3	58.8	57.6	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	56.4	60.9	63.9	55.6	57.8	62.8	58.6	59.8	58.4	60.6	58.9
73	Diversey Parkway, North Branch Chicago River	55.4	61.7	65.3	54.9	58.5	62.5	58.2	61.1	58.0	61.5	57.6
46	Grand Avenue, North Branch Chicago River	56.6	60.2	64.3	55.4	56.5	61.9	57.4	58.2	62.2	61.3	55.9
74	Lake Shore Drive, Chicago River	40.9	43.1	46.1	44.2	39.9	41.1	39.3	40.7	37.2	39.8	37.1
100	Wells Street, Chicago River	48.0	49.3	49.4	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	55.2	57.3	58.4	53.3	55.7	54.3	48.5	52.1	45.2	50.2	48.8
108	Loomis Street, South Branch Chicago River	52.8	56.8	51.5	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	52.5	56.7	58.0	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	53.4	ND	ND	53.0	56.5	55.0	51.7	52.4	44.8	53.8	50.5
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	57.8	56.1	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	52.1	59.9	55.7	53.3	54.4	52.8	52.6	50.7	48.5	54.6	49.8
41	Harlem Avenue, Chicago Sanitary & Ship Canal	53.8	57.3	59.6	54.3	56.8	56.1	56.0	54.0	53.3	59.3	50.2
42	Route 83, Chicago Sanitary & Ship Canal	56.6	58.7	59.8	53.6	54.9	56.1	56.9	56.6	54.3	63.0	55.2
48	Stephen Street, Chicago Sanitary & Ship Canal	58.7	61.6	63.4	58.5	57.4	57.8	61.5	60.2	57.0	63.7	59.0
82	Lockport Treble, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	65.2	66.5	84.8
92	Lockport Forebay, Chicago Sanitary & Ship Canal	59.0	62.6	63.8	57.3	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	38.6	41.1	40.2	39.7	39.5	39.0	38.6	40.7	38.9	41.1	37.8
50	Burnham Avenue, Wolf Lake	35.3	35.9	34.5	34.3	32.5	35.8	38.2	37.3	33.9	42.8	35.5
55	130th Street, Calumet River	43.4	47.2	48.8	44.9	43.4	43.9	44.8	45.7	43.9	45.8	46.1
86	Burnham Avenue, Grand Calumet River	86.9	79.6	85.6	73.3	71.0	73.4	75.0	96.7	84.1	88.0	82.8
56	Indians Avenue, Little Calumet River	52.0	58.6	52.5	49.7	50.4	54.2	55.3	53.9	52.2	57.2	62.1
76	Halsted Street, Little Calumet River	62.2	64.8	71.1	63.6	62.1	63.7	66.8	70.3	68.8	71.7	73.7
52	Wentworth Avenue, Little Calumet River	96.3	94.5	82.8	85.9	75.0	80.5	88.5	97.3	82.0	101.1	90.8
54	Joe Orr Road, Thorn Creek	64.1	85.5	85.5	72.8	75.6	76.9	80.0	84.1	81.3	87.8	84.0
97	170th Street, Thorn Creek	80.6	100.8	88.6	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	84.3	86.5	79.0	84.5	75.2	72.8	81.9	91.1	86.5	89.2	81.4
58	Ashland Avenue, Cal-Sag Channel	66.2	73.7	76.2	67.1	64.0	61.0	68.7	71.3	70.9	70.9	74.0
59	Cicero Avenue, Cal-Sag Channel	64.8	68.2	72.7	68.1	65.2	66.6	68.8	73.1	73.8	69.2	75.1
43	Route 83, Cal-Sag Channel	65.3	69.8	72.5	70.4	66.1	65.7	70.5	72.1	70.6	73.2	75.8
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	61.3	77.0	78.0	64.8	74.1	80.4	70.6	78.2	79.4	80.5	69.8
63	Longmeadow Lane, West Branch DuPage River	59.8	ND	99.6	63.8	76.9	76.9	79.3	65.6	84.4	76.8	74.6
89	Walnut Lane, West Branch DuPage River	55.8	63.1	67.8	59.3	61.9	61.2	60.0	59.9	67.3	69.4	67.0
64	Lake Street, West Branch DuPage River	55.6	65.0	69.3	59.9	60.9	65.3	63.8	63.1	68.1	69.3	63.7
79	Higgins Road, Salt Creek	58.1	67.5	79.3	65.9	60.0	69.6	65.1	70.8	74.5	77.7	68.6
80	Arlington Heights Road, Salt Creek	60.9	68.7	69.2	59.4	58.4	63.1	63.7	67.6	68.8	69.5	63.8
18	Devon Avenue, Salt Creek	58.9	68.2	68.9	58.8	60.1	63.7	67.2	66.1	68.3	66.8	62.8
24	Wolf Road, Salt Creek	59.2	73.7	75.3	67.7	66.9	85.3	69.0	77.9	76.8	76.5	71.0
109	Brookfield Avenue, Salt Creek	58.5	58.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	92.5	80.7	65.5	65.1	75.8	66.0	75.3	76.8	74.5	66.5
77	Elmhurst Road, Higgins Creek	48.3	63.2	79.6	62.4	67.5	79.4	66.5	68.8	75.4	74.4	61.6
78	Wille Road, Higgins Creek	63.4	74.4	80.9	67.6	72.3	80.1	73.6	74.3	74.2	70.9	70.7
12	Lake-Cook Road, Buffalo Creek	67.0	83.1	81.7	71.3	70.5	75.2	73.5	75.5	82.1	86.8	76.2
13	Lake-Cook Road, Des Plaines River	65.2	76.8	76.5	67.3	60.5	73.9	70.7	75.5	78.3	83.3	69.5
17	Oakton Street, Des Plaines River	64.1	75.6	81.1	67.1	63.7	76.4	70.0	77.1	75.3	70.3	67.2
19	Belmont Avenue, Des Plaines River	62.4	74.7	77.9	65.5	62.1	73.4	71.4	75.3	79.5	140.5	65.4
20	Roosevelt Road, Des Plaines River	60.9	74.7	75.4	64.2	61.5	73.6	72.0	76.3	76.7	75.0	64.5
22	Ogden Avenue, Des Plaines River	68.7	73.8	75.4	65.2	63.6	74.1	70.8	76.0	79.3	73.2	65.1
23	Willow Springs Road, Des Plaines River	61.7	70.8	75.5	66.0	62.6	74.2	70.9	76.0	76.5	70.6	65.2
29	Stephen Street, Des Plaines River	65.9	76.6	76.6	67.2	63.1	75.1	75.3	77.3	75.4	73.9	70.7
91	Material Service Road, Des Plaines River	65.6	74.9	73.0	69.3	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-79

TOTAL MAGNESIUM MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	46.1	32.8	ND	ND	ND	29.0	24.9	46.0	44.1
106	Dundee Road, West Fork North Branch Chicago River	23.6	34.0	37.7	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	28.3	30.5	31.6	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	29.2	33.0	33.9	30.0	31.6	33.3	30.8	33.5	29.1	29.3	30.8
104	Glenview Road, North Branch Chicago River	28.3	29.6	31.3	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	29.8	33.5	35.4	32.8	31.4	37.8	35.2	39.3	26.6	32.4	36.8
105	Frontage Road, Skokie River	25.3	29.2	30.5	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	27.0	29.8	31.8	27.9	27.8	31.9	31.7	30.7	26.7	27.9	27.4
96	Albany Avenue, North Branch Chicago River	26.6	29.3	31.4	23.2	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Branch Channel	14.1	15.2	12.2	15.7	15.4	14.9	14.4	15.9	13.6	11.3	12.0
102	Oakton Street, North Shore Channel	17.5	17.9	14.4	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	19.1	21.2	23.2	19.3	19.9	21.8	20.3	19.8	19.2	18.3	19.3
101	Foster Avenue, North Shore Channel	19.4	21.3	21.3	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	20.5	22.8	25.1	21.0	21.5	24.9	22.3	22.0	20.9	19.6	21.4
73	Diversey Parkway, North Branch Chicago River	20.0	23.1	25.6	20.8	21.6	24.4	21.7	22.5	20.8	19.5	20.5
46	Grand Avenue, North Branch Chicago River	20.4	22.5	24.8	20.9	20.9	24.2	21.5	21.2	22.1	19.4	20.5
74	Lake Shore Drive, Chicago River	13.7	14.7	16.1	15.7	13.4	14.3	12.9	13.6	11.8	11.7	12.2
100	Wells Street, Chicago River	16.7	17.4	18.0	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	19.9	21.1	22.2	19.4	20.5	20.7	17.4	18.3	15.8	14.9	17.8
108	Loomis Street, South Branch Chicago River	18.8	21.0	19.0	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	18.7	20.6	21.7	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	19.1	ND	ND	20.0	21.3	21.4	18.5	18.7	16.0	16.5	18.5
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	21.4	21.2	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	18.5	21.9	21.3	19.7	20.3	20.0	18.7	17.8	16.8	16.5	18.3
41	Harlem Avenue, Chicago Sanitary & Ship Canal	19.2	21.1	23.1	20.1	21.0	21.8	20.1	19.3	18.7	17.5	18.6
42	Route 83, Chicago Sanitary & Ship Canal	20.2	21.8	23.0	19.8	20.2	21.5	20.4	20.1	19.0	19.8	19.9
82	Stephen Street, Chicago Sanitary & Ship Canal	21.3	22.9	24.6	21.9	21.2	22.4	22.6	21.6	19.7	20.8	23.3
48	Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	24.8	25.1	27.1
92	Lockport Forebay, Chicago Sanitary & Ship Canal	21.4	23.0	24.9	21.8	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	12.8	13.2	13.1	13.1	13.4	13.4	12.9	13.2	12.1	12.1	11.9
50	Burnham Avenue, Wolf Lake	13.2	14.4	12.6	13.0	13.2	13.3	12.9	13.0	11.6	13.0	11.9
55	130th Street, Calumet River	14.8	15.9	16.8	15.5	15.0	14.9	15.4	14.6	13.5	13.5	15.8
86	Burnham Avenue, Grand Calumet River	65.6	67.1	57.1	57.7	54.5	59.8	51.2	69.4	77.3	80.8	52.6
56	Indiana Avenue, Little Calumet River	19.2	23.8	20.1	22.3	21.6	27.8	26.5	24.0	23.1	28.0	29.4
76	Halsted Street, Little Calumet River	21.5	23.0	26.5	23.4	22.4	25.7	25.6	24.0	23.5	25.0	26.8
52	Wentworth Avenue, Little Calumet River	37.2	38.4	33.6	35.3	40.1	34.0	36.8	38.2	32.0	38.5	36.2
54	Joe Orr Road, Thorn Creek	26.5	38.4	39.3	34.2	36.3	36.0	36.8	38.2	36.5	38.8	36.3
97	170th Street, Thorn Creek	34.6	49.1	41.3	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	35.0	37.3	35.1	38.8	33.8	32.2	36.5	40.1	36.0	36.0	33.1
58	Ashland Avenue, Cal-Sag Channel	24.2	27.9	28.3	26.0	24.5	24.3	26.5	25.9	25.0	26.6	29.1
59	Cicero Avenue, Cal-Sag Channel	23.7	25.4	27.7	26.4	24.8	26.8	26.5	26.5	25.8	25.3	28.9
43	Route 83, Cal-Sag Channel	24.1	26.0	27.8	26.9	25.4	26.9	28.0	26.4	24.6	26.8	28.8
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	27.5	34.6	36.7	31.3	36.5	37.9	31.8	35.0	35.3	32.0	30.1
63	Longmeadow Lane, West Branch DuPage River	22.3	ND	41.5	24.1	51.0	31.1	30.9	23.3	31.8	25.7	25.8
89	Walnut Lane, West Branch DuPage River	20.2	23.9	26.8	23.7	24.7	23.2	23.3	22.2	24.9	22.1	24.8
64	Lake Street, West Branch DuPage River	20.3	24.8	27.8	23.6	24.0	25.2	25.6	23.5	25.5	22.1	23.2
79	Higgins Road, Salt Creek	23.2	31.2	36.7	28.9	27.8	30.6	28.9	30.1	31.7	29.5	27.8
80	Arlington Heights Road, Salt Creek	23.4	27.0	29.6	24.1	23.5	25.1	26.1	26.6	26.1	24.2	24.3
18	Devon Avenue, Salt Creek	22.7	26.6	28.5	23.6	24.1	25.8	27.7	25.8	25.8	22.9	24.7
24	Wolf Road, Salt Creek	23.3	30.1	32.5	28.3	28.7	34.2	28.8	30.9	29.9	26.2	28.8
109	Brookfield Avenue, Salt Creek	23.2	24.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	37.4	34.6	27.7	28.0	32.0	29.2	29.9	30.8	24.5	26.5
77	Elmhurst Road, Higgins Creek	15.6	22.5	32.5	22.9	28.5	33.7	26.8	26.8	30.9	22.5	23.6
78	Willie Road, Higgins Creek	22.8	27.9	32.6	25.8	28.2	29.5	28.6	28.7	27.8	21.8	26.8
12	Lake-Cook Road, Buffalo Creek	30.3	39.0	38.3	33.2	34.5	34.4	34.9	34.0	37.9	33.9	34.2
13	Lake-Cook Road, Des Plaines River	28.7	35.1	36.1	31.6	27.7	33.4	32.8	34.0	35.2	31.6	30.7
17	Oakton Street, Des Plaines River	27.9	33.9	37.7	30.7	28.6	34.8	32.4	33.9	34.1	27.0	30.3
19	Belmont Avenue, Des Plaines River	25.9	33.0	35.8	29.7	27.6	33.1	32.1	32.7	33.8	53.3	28.3
20	Roosevelt Road, Des Plaines River	25.5	33.0	35.0	29.3	27.6	34.2	32.3	33.3	33.1	27.3	27.4
22	Ogden Avenue, Des Plaines River	27.8	31.6	33.8	29.1	28.4	32.7	31.0	32.8	33.3	25.8	27.8
23	Willow Springs Road, Des Plaines River	25.9	31.0	34.4	29.7	28.3	33.4	32.0	33.0	33.5	25.8	27.5
29	Stephen Street, Des Plaines River	27.4	32.7	35.7	30.0	28.0	33.8	33.3	32.9	31.4	27.0	29.7
91	Material Service Road, Des Plaines River	27.5	32.5	32.8	31.0	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-80

HARDNESS MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	456	335	ND	ND	ND	297	256	507	387
106	Dundee Road, West Fork North Branch Chicago River	234	337	354	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	294	307	307	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	280	316	325	288	303	315	290	321	272	312	303
104	Glenview Road, North Branch Chicago River	280	294	301	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	297	326	344	318	304	361	336	371	272	333	349
105	Frontage Road, Skokie River	254	289	291	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	275	297	307	274	276	304	306	305	265	297	276
96	Albany Avenue, North Branch Chicago River	271	293	311	237	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	160	171	144	173	172	174	166	186	155	144	147
102	Oakton Street, North Shore Channel	198	203	166	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	212	233	250	211	223	236	221	222	218	223	217
101	Foster Avenue, North Shore Channel	215	235	231	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	225	246	263	225	233	260	238	240	232	232	235
73	Diversey Parkway, North Branch Chicago River	221	249	268	223	235	257	234	245	230	234	228
46	Grand Avenue, North Branch Chicago River	226	243	263	224	227	254	232	232	247	233	224
74	Lake Shore Drive, Chicago River	159	168	182	175	155	162	151	158	142	148	143
100	Wells Street, Chicago River	189	195	198	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	219	230	237	213	223	221	192	205	178	183	195
108	Loomis Street, South Branch Chicago River	209	228	207	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	208	226	234	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	212	ND	ND	214	229	226	205	208	178	202	202
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	233	228	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	206	240	227	214	219	214	208	200	190	204	200
41	Harlem Avenue, Chicago Sanitary & Ship Canal	213	230	244	218	228	230	223	214	210	220	202
42	Route 83, Chicago Sanitary & Ship Canal	225	236	244	215	220	229	226	224	214	239	220
48	Stephen Street, Chicago Sanitary & Ship Canal	234	248	260	236	230	227	247	239	223	245	243
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	265	269	323
92	Lockport Forebay, Chicago Sanitary & Ship Canal	235	251	262	233	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	149	157	154	153	154	153	150	156	147	152	143
50	Burnham Avenue, Wolf Lake	143	149	138	139	136	144	148	147	132	160	138
55	130th Street, Calumet River	169	183	191	176	170	171	175	174	165	170	180
86	Burnham Avenue, Grand Calumet River	487	475	449	421	402	430	398	527	528	553	423
56	Indiana Avenue, Little Calumet River	209	244	214	216	215	250	247	233	225	258	276
76	Halsted Street, Little Calumet River	244	256	287	255	247	265	272	274	269	282	294
52	Wentworth Avenue, Little Calumet River	393	394	345	360	352	341	372	400	337	411	376
54	Joe Orr Road, Thorn Creek	269	371	375	323	338	340	351	367	353	366	359
97	170th Street, Thorn Creek	344	454	391	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	355	370	342	371	327	314	355	393	364	371	339
58	Ashland Avenue, Cal-Sag Channel	265	299	307	275	261	252	281	285	280	287	305
59	Cicero Avenue, Cal-Sag Channel	260	275	296	279	265	276	282	292	291	277	307
43	Route 83, Cal-Sag Channel	262	282	295	286	270	275	291	289	277	293	308
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	266	335	346	291	335	357	307	339	344	333	298
63	Longmeadow Lane, West Branch DuPage River	241	ND	419	258	402	320	325	260	342	298	293
89	Walnut Lane, West Branch DuPage River	222	256	280	246	256	248	246	241	271	264	269
64	Lake Street, West Branch DuPage River	222	264	287	247	251	267	265	254	275	264	254
79	Higgins Road, Salt Creek	241	297	349	284	284	300	282	301	317	315	286
80	Arlington Heights Road, Salt Creek	248	283	290	248	242	261	266	278	279	273	259
18	Devon Avenue, Salt Creek	241	280	289	244	249	265	282	271	277	261	258
24	Wolf Road, Salt Creek	244	308	322	286	285	354	291	322	315	299	296
109	Brookfield Avenue, Salt Creek	242	245	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	385	344	277	278	321	290	311	318	287	275
77	Elmhurst Road, Higgins Creek	185	250	332	250	286	337	276	282	316	278	251
78	Wille Road, Higgins Creek	252	301	336	275	297	321	301	303	300	267	287
12	Lake-Cook Road, Buffalo Creek	292	368	362	315	318	329	327	329	361	356	331
13	Lake-Cook Road, Des Plaines River	281	336	340	298	265	322	312	329	340	338	300
17	Oakton Street, Des Plaines River	275	328	358	294	277	334	308	332	328	287	293
19	Belmont Avenue, Des Plaines River	263	322	342	286	269	320	310	323	338	370	280
20	Roosevelt Road, Des Plaines River	257	323	333	281	267	324	313	328	328	299	274
22	Ogden Avenue, Des Plaines River	286	314	327	282	276	320	304	325	335	289	277
23	Willow Springs Road, Des Plaines River	260	305	330	287	273	323	309	326	329	283	276
29	Stephen Street, Des Plaines River	278	326	338	291	273	326	325	329	318	296	299
91	Material Service Road, Des Plaines River	277	321	317	301	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-81

GROSS ALPHA RADIOACTIVITY MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (pCi/L)</u>										
<u>No.</u>	<u>Name</u>	<u>03</u>	<u>02</u>	<u>01</u>	<u>00</u>	<u>99</u>	<u>98</u>	<u>97</u>	<u>96</u>	<u>95</u>	<u>94</u>	<u>93</u>
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	3.79	4.49	4.77	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	4.80	4.41	4.67	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	4.53	3.82	6.05	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	4.47	3.72	4.57	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	4.34	3.78	4.86	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	3.87	3.79	4.53	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	4.92	4.15	4.88	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	4.25	4.39	4.71	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	3.43	3.40	3.45	4.23	3.40	ND	2.44	3.55	0.20	0.05	0.24
102	Oakton Street, North Shore Channel	3.67	3.64	4.03	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	3.54	3.72	4.29	4.21	3.49	ND	3.09	3.13	0.26	0.29	0.26
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	Diversy 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	3.14	3.27	4.01	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	3.41	3.45	4.25	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	3.67	3.70	4.32	4.22	3.96	ND	2.90	2.94	0.31	0.26	0.36
41	Hallem Avenue, Chicago Sanitary & Ship Canal	3.49	3.66	4.49	4.26	3.64	ND	3.07	3.12	0.31	0.32	0.34
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	4.36	3.57	ND	3.31	3.47	0.22	0.23	0.63
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	4.25	3.53	ND	3.06	3.35	0.45	0.34	0.49
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	3.62	3.83	4.50	4.44	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	3.22	3.00	3.79	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	3.12	2.95	3.44	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	3.50	3.30	3.76	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	3.76	3.57	4.25	4.30	3.51	ND	2.95	3.09	0.36	0.72	0.56
76	Halsted Street, Little Calumet River	3.99	3.72	4.34	4.39	3.70	ND	3.17	2.43	0.36	0.42	0.44
52	Wentworth Avenue, Little Calumet River	4.59	4.46	4.43	ND	ND	ND	ND	ND	ND	ND	ND
54	Jos Cox Road, Thorn Creek	4.00	8.21	5.73	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	6.15	5.67	4.99	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	4.73	4.68	4.63	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	ND	ND	ND	4.41	3.62	ND	3.59	3.32	0.38	0.79	1.07
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	3.92	4.37	5.63	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	3.57	ND	5.23	4.21	4.14	ND	4.15	5.07	2.07	0.81	1.96
89	Walnut Lane, West Branch DuPage River	3.78	4.07	4.53	4.13	3.59	ND	3.87	3.53	0.51	0.50	0.72
64	Lake Street, West Branch DuPage River	3.69	4.18	4.91	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	4.65	4.23	5.54	4.37	3.64	ND	4.00	4.71	1.16	0.91	1.25
80	Arlington Heights Road, Salt Creek	4.28	4.00	5.07	4.19	3.53	ND	4.04	3.55	0.39	0.64	0.64
18	Devon Avenue, Salt Creek	4.28	3.97	5.06	ND	ND	ND	2.79	ND	ND	ND	ND
24	Wolf Road, Salt Creek	4.32	4.79	4.45	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	4.26	3.38	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	7.16	4.98	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	4.54	6.04	5.82	4.42	3.77	ND	4.37	4.85	1.68	3.93	1.18
78	Willie Road, Higgins Creek	3.98	4.43	5.44	4.24	3.69	ND	3.42	3.69	0.72	0.71	0.62
12	Lake-Cook Road, Buffalo Creek	4.73	4.26	4.98	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	4.04	4.10	5.26	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	4.08	4.50	5.26	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	4.15	4.56	4.69	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	4.15	4.92	4.80	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	4.25	4.62	4.83	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	4.19	4.17	4.85	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	4.29	4.74	4.86	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	4.19	4.13	5.12	4.54	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-82

GROSS BETA RADIOACTIVITY MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (pCi/L)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	8.90	8.00	11.92	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	10.27	9.99	7.77	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	7.37	6.64	7.80	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	8.90	12.64	7.59	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	7.35	6.70	6.56	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	9.93	8.46	7.77	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	10.17	9.49	7.41	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	9.53	8.47	7.24	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	4.82	6.79	4.44	6.67	5.97	ND	5.03	7.76	3.08	1.61	2.55
102	Oakton Street, North Shore Channel	6.45	6.70	5.43	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	7.70	7.94	7.12	11.30	8.46	ND	8.21	7.23	6.45	7.15	6.53
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	4.80	4.87	5.82	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	6.36	5.36	7.03	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	8.13	6.80	8.01	9.05	7.36	ND	6.07	6.34	5.90	6.25	4.98
41	Harlem Avenue, Chicago Sanitary & Ship Canal	8.38	6.66	8.32	9.33	9.18	ND	6.93	6.57	7.16	7.71	6.33
42	Route 83, Chicago Sanitary & Ship Canal	ND	ND	ND	9.04	9.32	ND	7.70	6.64	6.97	7.85	6.31
48	Stephen Street, Chicago Sanitary & Ship Canal	ND	ND	ND	9.65	10.26	ND	7.06	7.22	7.34	8.32	7.83
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	9.22	8.31	7.93	9.11	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	3.99	4.31	4.92	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	4.81	4.77	4.89	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	6.10	5.72	6.36	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	7.48	6.80	8.20	7.59	7.07	ND	6.48	6.50	6.78	7.96	9.61
76	Halsted Street, Little Calumet River	9.54	9.00	7.44	10.27	9.25	ND	8.50	9.10	9.21	9.99	10.17
52	Wentworth Avenue, Little Calumet River	12.91	12.46	9.42	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	10.77	12.05	7.95	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	12.14	12.41	8.40	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	10.93	10.76	8.89	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	ND	ND	ND	9.40	8.97	ND	8.74	7.89	9.39	10.21	10.67
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	6.76	5.70	5.91	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	5.41	ND	7.02	7.30	8.49	ND	8.53	8.86	11.98	9.12	7.43
89	Walnut Lane, West Branch DuPage River	10.50	10.82	9.50	9.61	10.64	ND	10.63	9.23	11.10	9.80	9.10
64	Lake Street, West Branch DuPage River	10.56	10.72	10.14	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	8.41	8.09	7.05	7.01	6.06	ND	7.21	8.02	8.41	9.52	7.92
80	Arlington Heights Road, Salt Creek	9.54	9.12	9.32	9.75	11.95	ND	8.84	7.79	9.91	10.02	7.34
18	Devon Avenue, Salt Creek	10.54	9.77	8.27	ND	ND	ND	11.00	ND	ND	ND	ND
24	Wolf Road, Salt Creek	10.43	10.71	9.13	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	9.41	10.31	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	10.68	9.41	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	9.76	8.82	7.32	7.37	7.18	ND	6.88	8.69	12.58	14.53	7.83
78	Wille Road, Higgins Creek	13.15	15.24	15.72	16.49	16.83	ND	13.15	9.28	15.08	14.52	9.82
12	Lake-Cook Road, Buffalo Creek	8.44	7.42	6.44	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	10.71	9.94	8.21	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	10.61	9.39	7.81	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	10.62	10.73	8.37	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	10.23	10.38	7.89	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	9.44	10.33	7.92	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	9.32	10.28	8.78	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	10.23	10.53	8.36	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	10.75	9.88	8.77	9.21	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-83

CHLOROPHYLL *a* MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (µg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	47.9	9.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	19.0	14.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	11.1	11.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	32.9	18.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	10.3	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	21.5	21.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	16.7	16.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	18.1	11.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	8.1	12.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	4.8	17.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	1.2	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	4.3	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	4.9	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	4.7	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	5.7	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	3.2	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	3.7	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	5.2	4.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	6.1	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	9.5	9.2	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	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	6.3	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	2.7	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	4.4	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephens Street, Chicago Sanitary & Ship Canal	7.2	3.9	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	7.2	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	1.6	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	8.7	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	7.1	9.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	38.1	31.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	24.4	26.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	10.3	9.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	9.0	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	8.5	9.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	11.5	10.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	10.0	11.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	15.3	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	20.3	11.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	24.5	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	14.6	15.9	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	9.0	5.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	29.5	24.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	37.4	30.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	18.6	12.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	19.5	16.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	12.9	13.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	17.9	12.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	22.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	11.4	14.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	4.3	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	30.2	35.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	34.1	27.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	42.2	20.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	35.3	11.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	28.7	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	45.5	12.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	33.0	20.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephens Street, Des Plaines River	49.1	34.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	56.2	35.3	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-84

BENZENE MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (µg/L)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-85

ETHYLBENZENE MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (µg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-86

TOLUENE MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (µg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
203	Golf Road, West Fork North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Treblex, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Steet, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-87

XYLENE MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (µg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversley Parkway, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Straet, West Branch DuPage River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.000	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	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-88

TOTAL SILVER MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.000	0.000	ND	ND	ND	0.000	0.010	0.000	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.002	0.000	0.001	0.001	0.001	0.000	0.001	0.008	0.000	0.000
104	Glenview Road, North Branch Chicago River	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.002	0.000	0.001	0.000	0.001	0.000	0.001	0.008	0.000	0.000
105	Frontage Road, Skokie River	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	0.001	0.001	0.001	0.001	0.002	0.000	0.001	0.008	0.000	0.000
96	Albany Avenue, North Branch Chicago River	0.000	0.001	0.000	0.001	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
102	Oakton Street, North Shore Channel	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.001	0.002	0.001	0.001	0.000	0.003	0.000	0.002	0.007	0.000	0.000
101	Foster Avenue, North Shore Channel	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.007	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.002	0.007	0.000	0.000
46	Grand Avenue, North Branch Chicago River	0.002	0.001	0.001	0.000	0.001	0.002	0.000	0.000	0.007	0.000	0.000
74	Lake Shore Drive, Chicago River	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.007	0.000	0.000
100	Wells Street, Chicago River	0.001	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.001	0.001	0.001	0.000	0.000	0.002	0.000	0.000	0.007	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.001	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	0.000	0.000	0.001	0.000	0.000	0.007	0.000	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.003	0.001	0.001	0.000	0.002	0.000	0.001	0.008	0.000	0.000
41	Haxlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.002	0.000	0.001	0.000	0.001	0.001	0.000	0.007	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.001	0.001	0.000	0.000	0.001	0.001	0.002	0.000	0.008	0.000	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.001	0.001	0.000	0.001	0.000	0.001	0.001	0.001	0.007	0.000	0.000
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.001	0.002	0.001	0.001	0.000	0.002	0.005	0.003	0.005	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.001	0.001	0.002	0.001	0.000	0.004	0.003	0.002	0.003	0.000	0.000
55	130th Street, Calumet River	0.001	0.001	0.001	0.000	0.000	0.001	0.000	0.002	0.004	0.002	0.000
86	Burnham Avenue, Grand Calumet River	0.000	0.002	0.002	0.002	0.000	0.001	0.003	0.003	0.005	0.000	0.000
56	Indiana Avenue, Little Calumet River	0.001	0.001	0.002	0.001	0.000	0.000	0.000	0.003	0.005	0.000	0.000
76	Halsted Street, Little Calumet River	0.001	0.003	0.001	0.001	0.000	0.001	0.001	0.003	0.003	0.000	0.000
52	Wentworth Avenue, Little Calumet River	0.000	0.004	0.001	0.001	0.000	0.002	0.000	0.003	0.006	0.000	0.000
54	Joe Orr Road, Thorn Creek	0.001	0.003	0.001	0.001	0.000	0.002	0.000	0.003	0.004	0.000	0.000
97	170th Street, Thorn Creek	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	0.001	0.001	0.002	0.000	0.000	0.001	0.003	0.004	0.002	0.000
58	Ashland Avenue, Cal-Sag Channel	0.000	0.003	0.003	0.000	0.000	0.003	0.002	0.003	0.004	0.001	0.000
59	Cicero Avenue, Cal-Sag Channel	0.000	0.001	0.002	0.000	0.000	0.002	0.006	0.003	0.004	0.000	0.000
43	Route 83, Cal-Sag Channel	0.001	0.001	0.001	0.001	0.000	0.002	0.003	0.002	0.004	0.000	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.001	0.001	0.001	0.000	0.000	0.001	0.007	0.000	0.008	0.001	0.000
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	0.002	0.000	0.000	0.000	0.006	0.000	0.010	0.000	0.000
89	Walnut Lane, West Branch DuPage River	0.000	0.001	0.001	0.000	0.000	0.000	0.005	0.000	0.008	0.000	0.000
64	Lake Street, West Branch DuPage River	0.001	0.001	0.001	0.001	0.000	0.001	0.006	0.001	0.008	0.000	0.000
79	Higgins Road, Salt Creek	0.001	0.001	0.001	0.000	0.000	0.001	0.006	0.000	0.009	0.000	0.000
80	Arlington Heights Road, Salt Creek	0.001	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.008	0.000	0.000
18	Devon Avenue, Salt Creek	0.000	0.001	0.001	0.000	0.000	0.000	0.006	0.000	0.006	0.001	0.000
24	Wolf Road, Salt Creek	0.001	0.001	0.001	0.000	0.000	0.000	0.002	0.000	0.007	0.000	0.000
109	Brookfield Avenue, Salt Creek	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.000	0.001	0.001	0.000	0.000	0.002	0.001	0.006	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.000	0.001	0.001	0.000	0.000	0.000	0.006	0.001	0.008	0.001	0.000
78	Wille Road, Higgins Creek	0.000	0.002	0.001	0.000	0.000	0.000	0.003	0.000	0.008	0.001	0.000
12	Lake-Cook Road, Buffalo Creek	0.000	0.001	0.000	0.000	0.000	0.000	0.006	0.000	0.008	0.000	0.000
13	Lake-Cook Road, Des Plaines River	0.000	0.003	0.001	0.001	0.000	0.000	0.005	0.000	0.009	0.000	0.000
17	Oakton Street, Des Plaines River	0.000	0.000	0.001	0.000	0.000	0.000	0.002	0.000	0.007	0.000	0.000
19	Belmont Avenue, Des Plaines River	0.001	0.001	0.001	0.001	0.000	0.000	0.002	0.000	0.008	0.000	0.000
20	Roosevelt Road, Des Plaines River	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.008	0.000	0.000
22	Ogden Avenue, Des Plaines River	0.000	0.001	0.001	0.000	0.001	0.000	0.007	0.001	0.008	0.000	0.000
23	Willow Springs Road, Des Plaines River	0.001	0.001	0.001	0.000	0.000	0.000	0.005	0.000	0.006	0.000	0.000
29	Stephen Street, Des Plaines River	0.001	0.000	0.001	0.000	0.000	0.000	0.002	0.000	0.008	0.001	0.000
91	Material Service Road, Des Plaines River	0.001	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-89

TOTAL ARSENIC MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.010	0.000	ND	ND	ND	0.000	0.000	0.000	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.005	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104	Glenview Road, North Branch Chicago River	0.000	0.003	0.008	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.004	0.007	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	Frontage Road, Skokie River	0.000	0.002	0.009	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	0.000	0.003	0.007	0.000	0.000	0.000	0.000	0.011	0.000	0.000
96	Albany Avenue, North Branch Chicago River	0.000	0.000	0.005	0.000	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.001	0.002	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102	Oakton Street, North Shore Channel	0.000	0.002	0.010	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	0.003	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101	Foster Avenue, North Shore Channel	0.000	0.000	0.005	ND	ND	ND	ND	ND	ND	ND	ND
37	Walson Avenue, North Branch Chicago River	0.000	0.003	0.010	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.000	0.003	0.005	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46	Grand Avenue, North Branch Chicago River	0.001	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74	Lake Shore Drive, Chicago River	0.000	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	Wells Street, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.000	0.000	0.007	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	0.006	0.006	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.003	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62	Lockport Treblec, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.005	0.004	0.001	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	0.002	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.000	0.006	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	130th Street, Calumet River	0.000	0.008	0.005	0.005	0.027	0.000	0.023	0.000	0.000	0.000	0.000
86	Burnham Avenue, Grand Calumet River	0.000	0.002	0.002	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
56	Indiana Avenue, Little Calumet River	0.000	0.006	0.004	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76	Halsted Street, Little Calumet River	0.000	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52	Wentworth Avenue, Little Calumet River	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.019	0.000	0.000
54	Joe Orr Road, Thorn Creek	0.000	0.017	0.006	0.007	0.000	0.000	0.018	0.000	0.000	0.000	0.000
97	170th Street, Thorn Creek	0.000	0.010	0.005	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	0.003	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58	Ashland Avenue, Cal-Sag Channel	0.000	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59	Cicero Avenue, Cal-Sag Channel	0.000	0.009	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43	Route 83, Cal-Sag Channel	0.000	0.005	0.006	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000
<u>Des Plaines River System</u>												
90	Route 18, Poplar Creek	0.000	0.003	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	0.005	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
89	Walnut Lane, West Branch DuPage River	0.000	0.002	0.006	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000
64	Lake Street, West Branch DuPage River	0.000	0.004	0.005	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79	Higgins Road, Salt Creek	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	Arlington Heights Road, Salt Creek	0.000	0.002	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	Devon Avenue, Salt Creek	0.000	0.002	0.006	0.005	0.000	0.022	0.000	0.000	0.000	0.000	0.000
24	Wolf Road, Salt Creek	0.000	0.007	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109	Brookfield Avenue, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.000	0.003	0.007	0.000	0.000	0.000	0.001	0.000	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
78	Wille Road, Higgins Creek	0.000	0.002	0.002	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	Lake-Cook Road, Buffalo Creek	0.000	0.000	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	Lake-Cook Road, Des Plaines River	0.001	0.008	0.003	0.012	0.000	0.018	0.000	0.000	0.000	0.000	0.000
17	Oakton Street, Des Plaines River	0.001	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	Belmont Avenue, Des Plaines River	0.000	0.004	0.003	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
20	Roosevelt Road, Des Plaines River	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	Ogden Avenue, Des Plaines River	0.000	0.002	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	Willow Springs Road, Des Plaines River	0.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	Stephen Street, Des Plaines River	0.000	0.004	0.002	0.000	0.000	0.025	0.000	0.000	0.000	0.000	0.000
91	Material Service Road, Des Plaines River	0.000	0.003	0.004	0.004	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-90

TOTAL BARIUM MEAN HISTORY THROUGH 2003

Sampling Station No. Name	Annual Means (mg/L)										
	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	0.089	0.083	ND	ND	ND	0.038	0.030	0.050	0.067
106 Dundee Road, West Fork North Branch Chicago River	0.048	0.054	0.072	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.051	0.051	0.052	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.045	0.045	0.054	0.041	0.039	0.040	0.039	0.041	0.043	0.010	0.000
104 Glenview Road, North Branch Chicago River	0.038	0.035	0.039	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.045	0.047	0.053	0.042	0.040	0.044	0.044	0.046	0.046	0.022	0.000
105 Frontage Road, Skokie River	0.029	0.032	0.036	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.039	0.040	0.047	0.033	0.032	0.034	0.036	0.036	0.024	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.039	0.043	0.044	0.029	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.024	0.030	0.026	0.023	0.023	0.022	0.024	0.026	0.023	0.000	0.000
102 Oakton Street, North Shore Channel	0.026	0.025	0.027	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.020	0.024	0.027	0.017	0.020	0.021	0.022	0.020	0.016	0.000	0.000
101 Foster Avenue, North Shore Channel	0.021	0.024	0.024	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.024	0.028	0.031	0.021	0.022	0.040	0.023	0.023	0.016	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.027	0.029	0.033	0.020	0.048	0.023	0.023	0.023	0.017	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.024	0.028	0.031	0.021	0.021	0.023	0.025	0.023	0.013	0.000	0.000
74 Lake Shore Drive, Chicago River	0.023	0.025	0.026	0.023	0.020	0.021	0.022	0.022	0.018	0.000	0.000
100 Wells Street, Chicago River	0.023	0.027	0.028	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.023	0.027	0.031	0.022	0.024	0.024	0.023	0.023	0.027	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.024	0.027	0.029	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.023	0.029	0.036	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.025	ND	ND	0.019	0.024	0.025	0.023	0.024	0.024	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	0.029	0.033	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.024	0.029	0.031	0.023	0.023	0.023	0.023	0.023	0.016	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.019	0.023	0.026	0.018	0.019	0.020	0.022	0.021	0.014	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.021	0.023	0.025	0.017	0.018	0.019	0.024	0.021	0.014	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.023	0.024	0.027	0.020	0.018	0.020	0.023	0.024	0.014	0.000	0.000
82 Lockport Treblex, Chicago Sanitary & Ship Canal	ND	ND	ND	0.027	0.032	0.036	0.039	0.032	0.031	0.025	0.034
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.022	0.026	0.028	0.019	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.024	0.026	0.030	0.022	0.024	0.019	0.022	0.023	0.019	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.028	0.029	0.031	0.024	0.024	0.028	0.028	0.028	0.022	0.008	0.000
55 130th Street, Calumet River	0.031	0.035	0.040	0.028	0.029	0.028	0.028	0.026	0.023	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.031	0.029	0.030	0.025	0.026	0.027	0.028	0.116	0.053	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.030	0.037	0.035	0.029	0.032	0.028	0.032	0.032	0.027	0.000	0.000
76 Halsted Street, Little Calumet River	0.020	0.024	0.030	0.015	0.020	0.018	0.023	0.023	0.017	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.043	0.045	0.047	0.040	0.037	0.045	0.045	0.051	0.036	0.009	0.000
54 Joe Orr Road, Thorn Creek	0.030	0.030	0.032	0.019	0.023	0.025	0.025	0.023	0.016	0.000	0.000
97 170th Street, Thorn Creek	0.038	0.041	0.043	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.039	0.040	0.044	0.034	0.033	0.036	0.037	0.038	0.030	0.000	0.000
58 Ashland Avenue, Cal-Sag Channel	0.029	0.029	0.030	0.022	0.023	0.021	0.032	0.027	0.022	0.000	0.000
59 Cicero Avenue, Cal-Sag Channel	0.026	0.028	0.035	0.021	0.023	0.024	0.027	0.028	0.020	0.000	0.000
43 Route 83, Cal-Sag Channel	0.028	0.030	0.034	0.024	0.024	0.026	0.025	0.031	0.020	0.000	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.079	0.071	0.067	0.053	0.102	0.063	0.071	0.085	0.067	0.018	0.000
63 Longmeadow Lane, West Branch DuPage River	0.047	ND	0.072	0.044	0.045	0.049	0.056	0.055	0.061	0.000	0.000
89 Walnut Lane, West Branch DuPage River	0.028	0.031	0.035	0.025	0.025	0.023	0.022	0.031	0.035	0.008	0.000
64 Lake Street, West Branch DuPage River	0.033	0.037	0.042	0.035	0.032	0.032	0.035	0.038	0.047	0.000	0.000
79 Higgins Road, Salt Creek	0.045	0.048	0.061	0.040	0.042	0.044	0.045	0.050	0.055	0.020	0.000
80 Arlington Heights Road, Salt Creek	0.031	0.030	0.035	0.026	0.023	0.023	0.029	0.030	0.021	0.000	0.000
18 Devon Avenue, Salt Creek	0.030	0.031	0.035	0.028	0.026	0.023	0.035	0.030	0.021	0.000	0.000
24 Wolf Road, Salt Creek	0.031	0.036	0.042	0.034	0.030	0.035	0.034	0.037	0.029	0.009	0.000
109 Brookfield Avenue, Salt Creek	0.034	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	0.046	0.048	0.033	0.030	0.033	0.034	0.035	0.030	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.050	0.060	0.072	0.047	0.054	0.060	0.054	0.057	0.055	0.036	0.000
78 Wille Road, Higgins Creek	0.022	0.030	0.032	0.023	0.022	0.028	0.027	0.036	0.024	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.048	0.055	0.056	0.046	0.048	0.046	0.048	0.053	0.054	0.030	0.017
13 Lake-Cook Road, Des Plaines River	0.038	0.044	0.044	0.036	0.060	0.037	0.036	0.037	0.033	0.011	0.000
17 Oakton Street, Des Plaines River	0.041	0.044	0.047	0.039	0.035	0.040	0.038	0.041	0.045	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.037	0.040	0.045	0.034	0.032	0.037	0.038	0.039	0.043	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.035	0.042	0.043	0.034	0.033	0.038	0.038	0.038	0.032	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.036	0.040	0.045	0.034	0.032	0.035	0.039	0.036	0.033	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.034	0.038	0.045	0.031	0.060	0.036	0.038	0.037	0.034	0.000	0.000
29 Stephen Street, Des Plaines River	0.036	0.040	0.045	0.034	0.059	0.038	0.038	0.038	0.029	0.000	0.000
91 Material Service Road, Des Plaines River	0.036	0.039	0.044	0.032	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-91

TOTAL BORON MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.171	0.208	ND	ND	ND	0.328	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0.147	0.139	0.186	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.137	0.159	0.151	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.113	0.122	0.104	0.134	0.132	0.113	0.133	0.164	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.138	0.167	0.156	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.137	0.120	0.122	0.161	0.125	0.155	0.188	0.199	ND	ND	ND
105	Frontage Road, Skokie River	0.193	0.186	0.166	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.176	0.172	0.132	0.194	0.178	0.167	0.227	0.234	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.164	0.169	0.157	0.243	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.050	0.052	0.030	0.050	0.015	0.039	0.064	0.117	ND	ND	ND
102	Oakton Street, North Shore Channel	0.091	0.118	0.058	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.190	0.185	0.211	0.233	0.208	0.215	0.274	0.233	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.176	0.176	0.201	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.166	0.160	0.183	0.201	0.188	0.180	0.243	0.233	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.175	0.161	0.173	0.205	0.193	0.175	0.227	0.233	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.162	0.161	0.178	0.214	0.189	0.181	0.223	0.230	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.057	0.055	0.082	0.091	0.025	0.047	0.055	0.092	ND	ND	ND
100	Wells Street, Chicago River	0.103	0.080	0.091	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.149	0.140	0.135	0.178	0.156	0.120	0.155	0.172	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.144	0.136	0.128	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.143	0.135	0.148	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.145	ND	ND	0.162	0.141	0.119	0.193	0.168	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.136	0.129	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.145	0.145	0.143	0.174	0.133	0.113	0.188	0.169	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.192	0.184	0.190	0.200	0.175	0.173	0.243	0.210	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.226	0.232	0.206	0.219	0.183	0.188	0.262	0.232	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.217	0.227	0.219	0.247	0.197	0.185	0.280	0.229	ND	ND	ND
82	Lockport Treblett, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.203	0.206	0.209	0.224	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.035	0.039	0.045	0.033	0.002	0.053	0.092	0.100	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.105	0.104	0.100	0.069	0.035	0.096	0.153	0.169	ND	ND	ND
55	130th Street, Calumet River	0.084	0.120	0.146	0.084	0.061	0.091	0.150	0.140	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.430	0.383	0.370	0.371	0.386	0.338	0.388	0.506	ND	ND	ND
56	Indians Avenue, Little Calumet River	0.128	0.161	0.152	0.159	0.123	0.168	0.214	0.189	ND	ND	ND
76	Halsted Street, Little Calumet River	0.187	0.201	0.228	0.286	0.244	0.253	0.293	0.340	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.267	0.321	0.209	0.276	0.235	0.238	0.345	0.296	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.252	0.353	0.351	0.410	0.353	0.357	0.428	0.413	ND	ND	ND
97	170th Street, Thorn Creek	0.279	0.332	0.254	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.265	0.270	0.212	0.321	0.267	0.259	0.421	0.329	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.210	0.226	0.232	0.280	0.227	0.260	0.332	0.261	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.192	0.207	0.228	0.277	0.230	0.257	0.298	0.279	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.182	0.194	0.215	0.250	0.235	0.243	0.298	0.283	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.056	0.056	0.063	0.059	0.012	0.058	0.143	0.158	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.040	ND	0.083	0.069	0.128	0.180	0.223	0.197	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.264	0.285	0.296	0.285	0.311	0.328	0.393	0.339	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.228	0.224	0.243	0.203	0.238	0.266	0.309	0.296	ND	ND	ND
79	Higgins Road, Salt Creek	0.073	0.100	0.099	0.086	0.071	0.092	0.169	0.186	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.191	0.207	0.223	0.207	0.225	0.233	0.278	0.279	ND	ND	ND
18	Devon Avenue, Salt Creek	0.187	0.192	0.211	0.195	0.213	0.218	0.257	0.268	ND	ND	ND
24	Wolf Road, Salt Creek	0.177	0.227	0.184	0.182	0.203	0.195	0.273	0.277	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.198	0.247	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.179	0.196	0.176	0.200	0.233	0.306	0.267	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.063	0.074	0.116	0.083	0.124	0.148	0.202	0.237	ND	ND	ND
78	Wille Road, Higgins Creek	0.282	0.335	0.377	0.367	0.376	0.373	0.436	0.404	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.078	0.101	0.095	0.101	0.117	0.099	0.173	0.184	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.192	0.189	0.167	0.166	0.166	0.176	0.250	0.297	ND	ND	ND
17	Oakton Street, Des Plaines River	0.186	0.191	0.158	0.146	0.166	0.171	0.235	0.296	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.209	0.207	0.178	0.176	0.215	0.208	0.271	0.238	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.207	0.218	0.169	0.181	0.205	0.213	0.285	0.313	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.211	0.214	0.169	0.178	0.201	0.213	0.321	0.308	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.176	0.219	0.172	0.185	0.196	0.208	0.317	0.279	ND	ND	ND
29	Stephen Street, Des Plaines River	0.195	0.204	0.172	0.182	0.185	0.201	0.324	0.274	ND	ND	ND
91	Material Service Road, Des Plaines River	0.217	0.213	0.165	0.215	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-92

TOTAL CADMIUM MEAN HISTORY THROUGH 2003

Sampling Station No. Name	Annual Means (mg/L)										
	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	0.002	0.000	ND	ND	ND	0.000	0.001	0.040	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.000	0.001	0.004	0.000	0.001	0.004	0.000	0.000	0.003	0.000	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.001	0.001	0.000	0.000	0.002	0.000	0.000	0.001	0.000	0.000
105 Frontage Road, Skokie River	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000
96 Albany Avenue, North Branch Chicago River	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000
102 Oakton Street, North Shore Channel	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.003	0.000	0.000
101 Foster Avenue, North Shore Channel	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
73 Diverser Parkway, North Branch Chicago River	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.002	0.000	0.000
46 Grand Avenue, North Branch Chicago River	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
74 Lake Shore Drive, Chicago River	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.002	0.000	0.000
100 Wells Street, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000
108 Loomis Street, South Branch Chicago River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	0.000	0.000	0.002	0.000	0.000	0.001	0.000	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.001	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	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.000	0.000	0.000	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000
50 Burnham Avenue, Wolf Lake	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55 130th Street, Calumet River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
56 Indiana Avenue, Little Calumet River	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76 Halsted Street, Little Calumet River	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52 Wentworth Avenue, Little Calumet River	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97 170th Street, Thorn Creek	0.000	0.001	0.001	ND	ND	ND	ND	ND	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	0.000	0.000	0.000
58 Ashland Avenue, Cal-Sag Channel	0.000	0.000	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000
59 Cicero Avenue, Cal-Sag Channel	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43 Route 83, Cal-Sag Channel	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000
63 Longmeadow Lane, West Branch DuPage River	0.000	ND	0.001	0.000	0.001	0.001	0.001	0.000	0.003	0.002	0.000
89 Walnut Lane, West Branch DuPage River	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
64 Lake Street, West Branch DuPage River	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.001
79 Higgins Road, Salt Creek	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.000
18 Devon Avenue, Salt Creek	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001
24 Wolf Road, Salt Creek	0.000	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.002	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.000	0.002	0.001	0.000	0.000	0.002	0.000	0.000	0.001	0.001	0.000
78 Wille Road, Higgins Creek	0.000	0.001	0.001	0.000	0.000	0.003	0.000	0.000	0.001	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
13 Lake-Cook Road, Des Plaines River	0.000	0.002	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000
17 Oakton Street, Des Plaines River	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.003	0.000
19 Belmont Avenue, Des Plaines River	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
22 Ogden Avenue, Des Plaines River	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
29 Stephen Street, Des Plaines River	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
91 Material Service Road, Des Plaines River	0.000	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-93

TOTAL COPPER MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.030	0.035	ND	ND	ND	0.020	0.024	0.245	0.004
106	Dundee Road, West Fork North Branch Chicago River	0.020	0.023	0.027	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.015	0.024	0.021	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.013	0.022	0.022	0.011	0.003	0.007	0.007	0.003	0.012	0.001	0.003
104	Glenview Road, North Branch Chicago River	0.013	0.020	0.018	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.011	0.019	0.020	0.011	0.004	0.007	0.005	0.006	0.013	0.001	0.002
105	Frontage Road, Skokie River	0.018	0.020	0.017	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.015	0.021	0.020	0.011	0.003	0.008	0.008	0.005	0.012	0.002	0.002
96	Albany Avenue, North Branch Chicago River	0.016	0.022	0.021	0.024	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.012	0.023	0.016	0.007	0.001	0.004	0.004	0.002	0.013	0.006	0.002
102	Oakton Street, North Shore Channel	0.014	0.021	0.016	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.015	0.024	0.018	0.012	0.003	0.004	0.004	0.005	0.007	0.002	0.003
101	Foster Avenue, North Shore Channel	0.013	0.023	0.014	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.015	0.023	0.019	0.014	0.002	0.005	0.003	0.005	0.007	0.001	0.001
73	Diverser Parkway, North Branch Chicago River	0.015	0.022	0.021	0.015	0.003	0.008	0.006	0.007	0.008	0.001	0.003
46	Grand Avenue, North Branch Chicago River	0.017	0.022	0.017	0.012	0.006	0.006	0.006	0.006	0.009	0.000	0.000
74	Lake Shore Drive, Chicago River	0.014	0.013	0.015	0.011	0.002	0.005	0.005	0.002	0.007	0.000	0.000
100	Wells Street, Chicago River	0.015	0.019	0.015	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.015	0.020	0.016	0.010	0.001	0.005	0.004	0.006	0.008	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.016	0.020	0.017	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.016	0.017	0.015	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.017	ND	ND	0.008	0.002	0.005	0.006	0.004	0.011	0.000	0.002
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.021	0.027	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.015	0.020	0.020	0.012	0.002	0.004	0.007	0.009	0.008	0.009	0.001
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.013	0.016	0.014	0.012	0.001	0.004	0.003	0.008	0.006	0.001	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.014	0.017	0.017	0.009	0.001	0.004	0.004	0.008	0.006	0.003	0.002
48	Stephen Street, Chicago Sanitary & Ship Canal	0.015	0.017	0.015	0.011	0.001	0.003	0.003	0.006	0.006	0.000	0.000
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	0.027	0.049	0.110	0.051	0.032	0.023	0.006	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.014	0.020	0.016	0.009	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.011	0.015	0.015	0.009	0.007	0.008	0.005	0.003	0.015	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.013	0.013	0.018	0.007	0.001	0.005	0.004	0.010	0.007	0.001	0.000
55	130th Street, Calumet River	0.012	0.015	0.017	0.008	0.001	0.006	0.005	0.002	0.008	0.002	0.001
86	Burnham Avenue, Grand Calumet River	0.017	0.020	0.022	0.023	0.013	0.018	0.013	0.020	0.030	0.008	0.003
56	Indiana Avenue, Little Calumet River	0.013	0.020	0.014	0.010	0.003	0.007	0.005	0.005	0.007	0.002	0.001
76	Halsted Street, Little Calumet River	0.010	0.016	0.017	0.010	0.000	0.004	0.003	0.010	0.007	0.002	0.000
52	Wentworth Avenue, Little Calumet River	0.012	0.019	0.019	0.016	0.004	0.009	0.009	0.008	0.012	0.005	0.003
54	Joe Orr Road, Thorn Creek	0.008	0.013	0.017	0.010	0.001	0.006	0.005	0.004	0.005	0.001	0.000
97	170th Street, Thorn Creek	0.014	0.016	0.018	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.010	0.017	0.021	0.013	0.003	0.008	0.008	0.002	0.006	0.000	0.000
58	Ashland Avenue, Cal-Sag Channel	0.011	0.017	0.017	0.011	0.001	0.006	0.005	0.003	0.008	0.002	0.002
59	Cicero Avenue, Cal-Sag Channel	0.011	0.016	0.018	0.008	0.002	0.008	0.005	0.004	0.005	0.002	0.002
43	Route 83, Cal-Sag Channel	0.013	0.018	0.019	0.009	0.001	0.008	0.008	0.004	0.007	0.003	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.012	0.016	0.014	0.006	0.000	0.005	0.004	0.006	0.011	0.004	0.003
63	Longmeadow Lane, West Branch DuPage River	0.017	ND	0.019	0.007	0.002	0.005	0.011	0.009	0.020	0.002	0.006
89	Walnut Lane, West Branch DuPage River	0.018	0.023	0.020	0.011	0.006	0.008	0.010	0.011	0.015	0.004	0.006
64	Lake Street, West Branch DuPage River	0.019	0.021	0.019	0.008	0.002	0.010	0.008	0.011	0.013	0.004	0.006
79	Higgins Road, Salt Creek	0.014	0.021	0.014	0.008	0.000	0.003	0.005	0.005	0.010	0.002	0.005
80	Arlington Heights Road, Salt Creek	0.017	0.018	0.021	0.011	0.003	0.005	0.006	0.006	0.007	0.004	0.005
18	Devon Avenue, Salt Creek	0.016	0.019	0.016	0.011	0.004	0.004	0.007	0.007	0.008	0.003	0.001
24	Wolf Road, Salt Creek	0.017	0.020	0.018	0.011	0.004	0.005	0.006	0.012	0.009	0.009	0.007
109	Brookfield Avenue, Salt Creek	0.022	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.016	0.022	0.011	0.005	0.008	0.006	0.013	0.012	0.007	0.016
77	Elmhurst Road, Higgins Creek	0.018	0.019	0.017	0.009	0.003	0.007	0.005	0.011	0.007	0.006	0.007
78	Wille Road, Higgins Creek	0.014	0.018	0.016	0.011	0.000	0.013	0.004	0.007	0.007	0.003	0.003
12	Lake-Cook Road, Buffalo Creek	0.012	0.017	0.014	0.006	0.001	0.005	0.006	0.008	0.008	0.007	0.003
13	Lake-Cook Road, Des Plaines River	0.016	0.019	0.015	0.010	0.001	0.006	0.007	0.008	0.010	0.001	0.002
17	Oakton Street, Des Plaines River	0.015	0.018	0.014	0.010	0.001	0.007	0.002	0.006	0.007	0.010	0.004
19	Belmont Avenue, Des Plaines River	0.016	0.021	0.017	0.012	0.001	0.008	0.005	0.007	0.008	0.004	0.005
20	Roosevelt Road, Des Plaines River	0.017	0.022	0.015	0.010	0.002	0.007	0.005	0.008	0.008	0.006	0.006
22	Ogden Avenue, Des Plaines River	0.017	0.020	0.019	0.012	0.001	0.006	0.009	0.008	0.010	0.005	0.008
23	Willow Springs Road, Des Plaines River	0.015	0.023	0.017	0.010	0.001	0.005	0.005	0.009	0.007	0.007	0.008
29	Stephen Street, Des Plaines River	0.016	0.022	0.017	0.011	0.002	0.005	0.004	0.011	0.009	0.007	0.008
91	Material Service Road, Des Plaines River	0.015	0.019	0.019	0.011	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-94

TOTAL CHROMIUM MEAN HISTORY THROUGH 2003

Sampling Station No. Name	Annual Means (mg/L)										
	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>											
30 Lake-Cook Road, West Fork North Branch	ND	ND	0.005	0.009	ND	ND	ND	0.000	0.018	0.155	0.000
106 Dundee Road, West Fork North Branch Chicago River	0.003	0.006	0.005	ND	ND	ND	ND	ND	ND	ND	ND
103 Golf Road, West Fork North Branch Chicago River	0.001	0.007	0.006	ND	ND	ND	ND	ND	ND	ND	ND
31 Lake-Cook Road, Middle Fork North Branch	0.001	0.006	0.004	0.001	0.001	0.005	0.000	0.001	0.011	0.004	0.000
104 Glenview Road, North Branch Chicago River	0.000	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND
32 Lake-Cook Road, Skokie River	0.000	0.001	0.005	0.002	0.001	0.000	0.000	0.000	0.013	0.004	0.000
105 Frontage Road, Skokie River	0.002	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
34 Dempster Street, North Branch Chicago River	0.001	0.007	0.003	0.000	0.000	0.000	0.000	0.001	0.012	0.007	0.000
96 Albany Avenue, North Branch Chicago River	0.001	0.001	0.004	0.001	ND	ND	ND	ND	ND	ND	ND
35 Central Street, North Shore Channel	0.000	0.008	0.003	0.000	0.001	0.000	0.000	0.000	0.010	0.005	0.007
102 Oakton Street, North Shore Channel	0.002	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND
36 Touhy Avenue, North Shore Channel	0.000	0.005	0.002	0.003	0.000	0.000	0.000	0.001	0.013	0.011	0.000
101 Foster Avenue, North Shore Channel	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
37 Wilson Avenue, North Branch Chicago River	0.001	0.006	0.003	0.001	0.000	0.000	0.000	0.002	0.011	0.000	0.000
73 Diversey Parkway, North Branch Chicago River	0.002	0.004	0.004	0.002	0.000	0.000	0.000	0.001	0.009	0.003	0.000
46 Grand Avenue, North Branch Chicago River	0.003	0.005	0.002	0.002	0.000	0.000	0.002	0.001	0.007	0.003	0.000
74 Lake Shore Drive, Chicago River	0.001	0.003	0.002	0.002	0.000	0.000	0.001	0.004	0.011	0.002	0.000
100 Wells Street, Chicago River	0.001	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND
39 Madison Street, South Branch Chicago River	0.002	0.005	0.003	0.003	0.002	0.003	0.000	0.003	0.009	0.010	0.000
108 Loomis Street, South Branch Chicago River	0.002	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND
99 Archer Avenue, South Fork South Branch Chicago River	0.002	0.008	0.000	ND	ND	ND	ND	ND	ND	ND	ND
40 Damen Avenue, Chicago Sanitary & Ship Canal	0.003	ND	ND	0.002	0.002	0.002	0.001	0.003	0.011	0.005	0.000
107 Western Avenue, Chicago Sanitary & Ship Canal	ND	0.005	0.004	ND	ND	ND	ND	ND	ND	ND	ND
75 Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.006	0.003	0.005	0.001	0.000	0.000	0.003	0.009	0.000	0.000
41 Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.004	0.005	0.006	0.001	0.001	0.000	0.004	0.008	0.002	0.000
42 Route 83, Chicago Sanitary & Ship Canal	0.004	0.005	0.002	0.007	0.001	0.000	0.001	0.007	0.012	0.000	0.000
48 Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.004	0.005	0.006	0.001	0.000	0.000	0.004	0.009	0.004	0.000
82 Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	0.006	0.003	0.002	0.002	0.000	0.000	0.002
92 Lockport Forebay, Chicago Sanitary & Ship Canal	0.003	0.007	0.004	0.002	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>											
49 Ewing Avenue, Calumet River	0.000	0.002	0.002	0.003	0.002	0.002	0.000	0.002	0.005	0.002	0.000
50 Burnham Avenue, Wolf Lake	0.001	0.004	0.002	0.001	0.000	0.000	0.000	0.002	0.006	0.001	0.000
55 130th Street, Calumet River	0.000	0.003	0.000	0.002	0.001	0.000	0.001	0.001	0.005	0.000	0.000
86 Burnham Avenue, Grand Calumet River	0.004	0.003	0.006	0.006	0.002	0.005	0.003	0.035	0.018	0.001	0.000
56 Indiana Avenue, Little Calumet River	0.001	0.006	0.002	0.003	0.001	0.000	0.000	0.003	0.005	0.001	0.000
76 Halsted Street, Little Calumet River	0.001	0.001	0.004	0.003	0.001	0.000	0.000	0.000	0.005	0.001	0.000
52 Wentworth Avenue, Little Calumet River	0.001	0.007	0.003	0.003	0.001	0.000	0.000	0.003	0.006	0.000	0.000
54 Joe Orr Road, Thorn Creek	0.003	0.005	0.002	0.003	0.001	0.000	0.002	0.002	0.006	0.002	0.000
97 170th Street, Thorn Creek	0.003	0.005	0.008	ND	ND	ND	ND	ND	ND	ND	ND
57 Ashland Avenue, Little Calumet River	0.002	0.007	0.003	0.004	0.001	0.000	0.000	0.001	0.005	0.000	0.002
58 Ashland Avenue, Cal-Sag Channel	0.002	0.006	0.003	0.003	0.001	0.004	0.000	0.002	0.004	0.000	0.000
59 Cicero Avenue, Cal-Sag Channel	0.003	0.005	0.005	0.004	0.002	0.000	0.000	0.005	0.006	0.000	0.000
43 Route 83, Cal-Sag Channel	0.004	0.005	0.004	0.004	0.002	0.000	0.003	0.004	0.008	0.001	0.000
<u>Des Plaines River System</u>											
90 Route 19, Poplar Creek	0.001	0.003	0.005	0.002	0.000	0.000	0.002	0.000	0.015	0.000	0.000
63 Longmeadow Lane, West Branch DuPage River	0.000	ND	0.009	0.001	0.002	0.003	0.001	0.002	0.016	0.000	0.000
89 Walnut Lane, West Branch DuPage River	0.001	0.002	0.004	0.001	0.000	0.000	0.002	0.000	0.012	0.000	0.000
64 Lake Street, West Branch DuPage River	0.001	0.003	0.005	0.001	0.000	0.001	0.001	0.000	0.011	0.000	0.001
79 Higgins Road, Salt Creek	0.003	0.009	0.005	0.001	0.000	0.000	0.000	0.001	0.014	0.001	0.000
80 Arlington Heights Road, Salt Creek	0.000	0.003	0.005	0.001	0.001	0.002	0.000	0.000	0.009	0.000	0.000
18 Devon Avenue, Salt Creek	0.001	0.001	0.002	0.002	0.000	0.000	0.000	0.000	0.010	0.000	0.000
24 Wolf Road, Salt Creek	0.004	0.007	0.006	0.004	0.000	0.000	0.001	0.002	0.009	0.000	0.000
109 Brookfield Avenue, Salt Creek	0.003	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
21 First Avenue, Salt Creek	ND	0.000	0.006	0.003	0.001	0.000	0.000	0.001	0.009	0.000	0.000
77 Elmhurst Road, Higgins Creek	0.003	0.004	0.001	0.002	0.000	0.003	0.001	0.001	0.009	0.000	0.000
78 Willie Road, Higgins Creek	0.002	0.004	0.004	0.003	0.000	0.004	0.001	0.003	0.013	0.000	0.000
12 Lake-Cook Road, Buffalo Creek	0.002	0.010	0.002	0.001	0.000	0.000	0.000	0.001	0.011	0.000	0.000
13 Lake-Cook Road, Des Plaines River	0.001	0.001	0.003	0.001	0.000	0.000	0.001	0.001	0.008	0.000	0.000
17 Oakton Steet, Des Plaines River	0.003	0.004	0.005	0.003	0.000	0.001	0.000	0.000	0.011	0.000	0.000
19 Belmont Avenue, Des Plaines River	0.031	0.002	0.005	0.003	0.000	0.001	0.001	0.001	0.011	0.000	0.000
20 Roosevelt Road, Des Plaines River	0.018	0.004	0.005	0.003	0.001	0.000	0.000	0.001	0.009	0.000	0.000
22 Ogden Avenue, Des Plaines River	0.003	0.004	0.005	0.005	0.000	0.001	0.002	0.001	0.011	0.000	0.000
23 Willow Springs Road, Des Plaines River	0.004	0.002	0.005	0.003	0.000	0.000	0.001	0.001	0.010	0.000	0.000
29 Stephen Street, Des Plaines River	0.003	0.001	0.005	0.005	0.000	0.000	0.000	0.000	0.008	0.000	0.005
91 Material Service Road, Des Plaines River	0.003	0.004	0.005	0.002	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-95

TOTAL HEXAVALENT CHROMIUM MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (µg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundas Road, West Fork North Branch Chicago River	2.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.375	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.556	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.455	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.444	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.300	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.400	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.500	0.167	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.364	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.500	0.167	0.000	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.500	0.000	0.000	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	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.250	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.167	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.167	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.442	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.583	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.833	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	1.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.700	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.545	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	1.200	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	1.200	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.300	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.583	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	1.273	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	1.273	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.700	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.364	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.750	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.333	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.583	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.900	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.200	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.750	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	1.250	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.500	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.750	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	1.143	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.700	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.909	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.667	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-96

TOTAL IRON MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	1.795	3.350	ND	ND	ND	0.690	0.626	0.500	1.100
106	Dundee Road, West Fork North Branch Chicago River	1.601	0.913	1.349	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.823	1.037	0.953	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.922	0.934	1.443	0.634	0.734	0.526	0.710	0.786	0.782	0.610	0.725
104	Glenview Road, North Shore Chicago River	0.847	0.705	0.707	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.683	0.831	1.040	0.565	0.652	0.575	0.492	0.620	0.643	0.500	0.708
105	Frontage Road, Skokie River	0.534	0.580	0.528	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.744	0.889	0.957	0.502	0.521	0.488	0.431	0.435	0.546	0.382	0.475
96	Albany Avenue, North Branch Chicago River	0.701	0.889	0.666	0.320	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.256	0.355	0.357	0.268	0.183	0.180	0.181	0.198	0.249	0.125	0.183
102	Oakton Street, North Shore Channel	0.522	0.466	0.560	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.171	0.310	0.284	0.178	0.136	0.107	0.101	0.139	0.137	0.118	0.118
101	Foster Avenue, North Shore Channel	0.236	0.347	0.295	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.355	0.490	0.450	0.248	0.210	0.178	0.152	0.203	0.233	0.158	0.150
73	Diversey Parkway, North Branch Chicago River	0.509	0.560	0.538	0.305	0.273	0.248	0.208	0.268	0.261	0.183	0.283
46	Grand Avenue, North Branch Chicago River	0.466	0.594	0.531	0.328	0.283	0.223	0.231	0.236	0.290	0.250	0.275
74	Lake Shore Drive, Chicago River	0.158	0.199	0.219	0.192	0.102	0.098	0.133	0.137	0.149	0.080	0.108
100	Wells Street, Chicago River	0.222	0.248	0.347	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.389	0.439	0.550	0.386	0.238	0.199	0.165	0.222	0.250	0.140	0.258
108	Loomis Street, South Branch Chicago River	0.392	0.417	0.481	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.455	0.599	0.822	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.446	ND	ND	0.258	0.269	0.212	0.223	0.246	0.447	0.183	0.258
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.507	0.717	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.493	0.545	0.621	0.379	0.313	0.225	0.243	0.268	0.278	0.225	0.275
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.261	0.330	0.331	0.262	0.210	0.141	0.153	0.161	0.239	0.192	0.167
42	Route 83, Chicago Sanitary & Ship Canal	0.318	0.336	0.324	0.182	0.170	0.132	0.224	0.173	0.274	0.364	0.167
48	Stephen Street, Chicago Sanitary & Ship Canal	0.516	0.429	0.466	0.316	0.222	0.261	0.277	0.333	0.370	0.283	0.350
82	Lockport Trebleur, Chicago Sanitary & Ship Canal	ND	ND	ND	0.616	1.125	1.165	1.386	0.778	0.373	0.352	0.622
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.434	0.505	0.493	0.320	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.249	0.268	0.429	0.317	0.242	0.213	0.160	0.213	0.213	0.182	0.175
50	Burnham Avenue, Wolf Lake	0.110	0.134	0.203	0.123	0.118	0.134	0.081	0.114	0.115	0.183	0.092
55	130th Street, Calumet River	0.330	0.345	0.437	0.365	0.191	0.203	0.195	0.224	0.202	0.182	0.158
86	Burnham Avenue, Grand Calumet River	1.315	1.335	1.111	1.126	0.766	0.963	0.712	4.656	1.579	1.192	1.083
56	Indiana Avenue, Little Calumet River	0.791	1.014	0.633	0.470	0.395	0.334	0.412	0.551	0.564	0.545	0.625
76	Halsted Street, Little Calumet River	0.330	0.449	0.511	0.329	0.251	0.294	0.347	0.413	0.380	0.375	0.917
52	Wentworth Avenue, Little Calumet River	1.350	1.973	1.504	1.156	0.927	1.442	0.983	1.147	0.778	1.173	1.400
54	Joe Orr Road, Thorn Creek	1.481	0.445	0.594	0.433	0.262	0.447	0.368	0.223	0.266	0.242	0.475
97	170th Street, Thorn Creek	1.088	0.667	1.623	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	1.084	0.980	1.435	0.642	0.640	0.853	0.669	0.609	0.506	0.630	0.827
58	Ashland Avenue, Cal-Sag Channel	0.787	0.616	0.639	0.439	0.360	0.353	0.718	0.552	0.494	0.467	0.717
59	Cicero Avenue, Cal-Sag Channel	0.745	0.637	0.764	0.478	0.398	0.416	0.510	0.612	0.658	0.575	0.683
43	Route 83, Cal-Sag Channel	0.973	0.751	0.947	0.546	0.388	0.420	0.659	0.690	0.583	0.645	0.767
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.982	0.846	0.840	0.611	0.627	0.508	0.893	0.931	0.645	0.545	0.836
63	Longmeadow Lane, West Branch DuPage River	1.353	ND	1.256	0.844	0.672	0.749	0.614	0.955	0.944	0.590	0.792
89	Walnut Lane, West Branch DuPage River	0.608	0.432	0.477	0.417	0.285	0.228	0.220	0.408	0.548	0.300	0.342
64	Lake Street, West Branch DuPage River	1.154	0.894	1.062	0.773	0.577	0.536	0.627	0.734	0.666	0.473	0.583
79	Higgins Road, Salt Creek	1.666	1.448	1.119	0.858	0.760	0.737	0.815	0.971	0.668	0.590	0.864
80	Arlington Heights Road, Salt Creek	0.345	0.343	0.511	0.350	0.375	0.220	0.250	0.229	0.213	0.250	0.267
18	Devon Avenue, Salt Creek	0.590	0.434	0.660	0.518	0.583	0.248	0.425	0.298	0.278	0.317	0.300
24	Wolf Road, Salt Creek	1.312	0.662	0.859	0.621	0.557	0.478	0.598	0.602	0.542	0.655	0.658
109	Brookfield Avenue, Salt Creek	1.580	0.605	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.583	1.204	0.695	0.514	0.457	0.473	0.500	0.439	0.591	0.783
77	Elmhurst Road, Higgins Creek	1.454	1.179	1.127	0.733	0.812	0.748	0.704	1.029	0.956	1.055	0.700
78	Wille Road, Higgins Creek	0.227	0.417	0.334	0.214	0.103	0.415	0.181	0.333	0.337	0.273	0.225
12	Lake-Cook Road, Buffalo Creek	1.516	1.066	0.949	1.027	0.839	0.629	0.599	0.786	0.516	0.780	0.675
13	Lake-Cook Road, Des Plaines River	0.964	0.829	0.992	0.678	0.586	0.537	0.589	0.583	0.431	0.500	0.633
17	Oakton Steet, Des Plaines River	1.499	0.632	1.024	0.770	0.577	0.586	0.688	0.504	0.541	0.700	0.667
19	Belmont Avenue, Des Plaines River	1.145	0.680	0.887	0.631	0.490	0.493	0.670	0.507	0.508	0.892	0.600
20	Roosevelt Road, Des Plaines River	1.292	0.749	0.760	0.632	0.514	0.463	0.648	0.483	0.460	0.533	0.667
22	Ogden Avenue, Des Plaines River	1.300	0.679	0.869	0.611	0.510	0.447	0.643	0.479	0.474	0.582	0.800
23	Willow Springs Road, Des Plaines River	1.068	0.611	1.007	0.652	0.557	0.577	0.596	0.550	0.507	0.473	0.617
29	Stephen Street, Des Plaines River	1.176	0.679	1.195	0.707	0.580	0.868	0.572	0.568	0.476	0.618	0.700
91	Material Service Road, Des Plaines River	1.213	0.754	1.216	0.669	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-97

TOTAL LEAD MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.000	0.000	ND	ND	ND	0.000	0.009	0.030	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.006	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.004	0.002	0.010	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.004	0.002	0.006	0.004	0.000	0.000	0.000	0.000	0.024	0.001	0.000
104	Glenview Road, North Branch Chicago River	0.007	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.004	0.002	0.001	0.004	0.000	0.000	0.000	0.000	0.009	0.000	0.000
105	Frontage Road, Skokie River	0.006	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.076	0.002	0.003	0.000	0.000	0.000	0.000	0.005	0.027	0.004	0.000
96	Albany Avenue, North Branch Chicago River	0.006	0.002	0.004	0.000	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.003	0.002	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102	Oakton Street, North Shore Channel	0.006	0.002	0.005	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.004	0.001	0.005	0.003	0.000	0.000	0.000	0.000	0.014	0.000	0.000
101	Foster Avenue, North Shore Channel	0.005	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.031	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.125	0.001	0.027	0.003	0.000	0.000	0.000	0.000	0.015	0.003	0.000
46	Grand Avenue, North Branch Chicago River	0.105	0.002	0.006	0.005	0.000	0.000	0.000	0.000	0.023	0.005	0.000
74	Lake Shore Drive, Chicago River	0.003	0.001	0.000	0.003	0.000	0.000	0.000	0.000	0.015	0.003	0.000
100	Wells Street, Chicago River	0.004	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.006	0.002	0.000	0.003	0.000	0.000	0.004	0.000	0.005	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.007	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.008	0.003	0.007	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.008	ND	ND	0.009	0.000	0.000	0.003	0.000	0.006	0.002	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.009	0.003	0.000	0.006	0.004	0.000	0.003	0.000	0.031	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.006	0.002	0.003	0.254	0.000	0.003	0.000	0.000	0.011	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.007	0.002	0.000	0.003	0.000	0.000	0.000	0.000	0.019	0.004	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.008	0.002	0.000	0.004	0.000	0.000	0.017	0.008	0.010	0.000	0.000
82	Lockport Trebley, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	0.004	0.005	0.007	0.008	0.000	0.001	0.004
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.007	0.003	0.002	0.001	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.004	0.002	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	130th Street, Calumet River	0.004	0.002	0.002	0.010	0.000	0.000	0.003	0.000	0.000	0.000	0.000
86	Burnham Avenue, Grand Calumet River	0.014	0.002	0.000	0.005	0.005	0.000	0.003	0.090	0.017	0.000	0.000
56	Indiana Avenue, Little Calumet River	0.007	0.003	0.003	0.003	0.000	0.000	0.009	0.000	0.005	0.000	0.000
76	Halsted Street, Little Calumet River	0.006	0.003	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000
52	Wentworth Avenue, Little Calumet River	0.005	0.003	0.005	0.003	0.000	0.000	0.004	0.000	0.000	0.000	0.000
54	Joe Orr Road, Thorn Creek	0.005	0.000	0.003	0.008	0.000	0.000	0.003	0.000	0.000	0.000	0.000
97	170th Street, Thorn Creek	0.006	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.007	0.002	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000
58	Ashland Avenue, Cal-Sag Channel	0.006	0.004	0.003	0.003	0.000	0.000	0.003	0.559	0.000	0.000	0.000
59	Cicero Avenue, Cal-Sag Channel	0.007	0.003	0.001	0.000	0.007	0.000	0.014	0.008	0.000	0.000	0.000
43	Route 83, Cal-Sag Channel	0.009	0.004	0.008	0.006	0.000	0.000	0.008	0.000	0.000	0.000	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.004	0.002	0.000	0.000	0.000	0.553	0.000	0.000	0.015	0.004	0.000
63	Longmeadow Lane, West Branch DuPage River	0.006	ND	0.000	0.003	0.000	0.000	0.000	0.004	0.023	0.002	0.000
89	Walnut Lane, West Branch DuPage River	0.006	0.009	0.000	0.003	0.000	0.358	0.000	0.003	0.017	0.000	0.000
64	Lake Street, West Branch DuPage River	0.005	0.002	0.000	0.004	0.000	0.000	0.000	0.001	0.019	0.005	0.000
79	Higgins Road, Salt Creek	0.006	0.003	0.052	0.004	0.000	0.000	0.000	0.000	0.019	0.000	0.000
80	Arlington Heights Road, Salt Creek	0.004	0.001	0.000	0.008	0.000	0.000	0.000	0.002	0.011	0.000	0.000
18	Devon Avenue, Salt Creek	0.004	0.002	0.000	0.000	0.000	0.000	0.004	0.001	0.019	0.003	0.000
24	Wolf Road, Salt Creek	0.007	0.003	0.005	0.000	0.000	0.000	0.008	0.001	0.008	0.000	0.000
109	Brookfield Avenue, Salt Creek	0.008	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.000	0.005	0.004	0.000	0.000	0.000	0.000	0.018	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.003	0.019	0.000	0.000
78	Wille Road, Higgins Creek	0.004	0.003	0.002	0.000	0.000	0.000	0.000	0.003	0.015	0.000	0.000
12	Lake-Cook Road, Buffalo Creek	0.005	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.004	0.001	0.000
13	Lake-Cook Road, Des Plaines River	0.005	0.003	0.027	0.004	0.000	0.000	0.009	0.006	0.009	0.000	0.000
17	Oakton Street, Des Plaines River	0.006	0.003	0.002	0.004	0.000	0.000	0.000	0.001	0.018	0.017	0.000
19	Belmont Avenue, Des Plaines River	0.006	0.003	0.000	0.012	0.000	0.000	0.000	0.003	0.008	0.001	0.000
20	Roosevelt Road, Des Plaines River	0.005	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.014	0.001	0.000
22	Ogden Avenue, Des Plaines River	0.008	0.002	0.003	0.000	0.000	0.000	0.000	0.002	0.038	0.004	0.000
23	Willow Springs Road, Des Plaines River	0.007	0.003	0.000	0.004	0.000	0.000	0.005	0.095	0.018	0.000	0.000
29	Stephen Street, Des Plaines River	0.008	0.002	0.002	0.000	0.000	0.000	0.003	0.000	0.020	0.000	0.000
91	Material Service Road, Des Plaines River	0.008	0.002	0.007	0.003	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-98

TOTAL NICKEL MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.005	0.020	ND	ND	ND	0.010	0.013	0.200	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.004	0.005	0.006	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.003	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.002	0.005	0.006	0.000	0.000	0.005	0.002	0.003	0.014	0.000	0.000
104	Glenview Road, North Branch Chicago River	0.001	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.002	0.005	0.006	0.000	0.000	0.003	0.003	0.000	0.020	0.000	0.000
105	Frontage Road, Skokie River	0.005	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.003	0.004	0.004	0.001	0.000	0.003	0.003	0.001	0.016	0.000	0.000
96	Albany Avenue, North Branch Chicago River	0.003	0.005	0.003	0.000	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.003	0.002	0.003	0.000	0.000	0.003	0.001	0.001	0.010	0.000	0.000
102	Oakton Street, North Shore Channel	0.003	0.005	0.004	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.005	0.004	0.006	0.004	0.000	0.005	0.008	0.001	0.009	0.000	0.000
101	Foster Avenue, North Shore Channel	0.005	0.006	0.007	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.005	0.005	0.007	0.007	0.000	0.005	0.005	0.002	0.013	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.006	0.009	0.008	0.004	0.000	0.006	0.008	0.006	0.017	0.000	0.000
46	Grand Avenue, North Branch Chicago River	0.008	0.008	0.007	0.004	0.000	0.008	0.009	0.004	0.013	0.000	0.000
74	Lake Shore Drive, Chicago River	0.001	0.003	0.007	0.003	0.000	0.007	0.005	0.002	0.010	0.000	0.000
100	Wells Street, Chicago River	0.004	0.004	0.011	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.006	0.007	0.008	0.004	0.003	0.004	0.004	0.004	0.016	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.006	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.005	0.006	0.005	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.007	ND	ND	0.003	0.000	0.005	0.005	0.002	0.013	0.000	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.006	0.006	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.007	0.006	0.005	0.005	0.001	0.003	0.003	0.003	0.012	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.005	0.008	0.005	0.003	0.000	0.003	0.004	0.006	0.014	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.008	0.009	0.006	0.005	0.003	0.004	0.006	0.005	0.020	0.000	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.007	0.009	0.006	0.005	0.000	0.005	0.006	0.003	0.018	0.000	0.000
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	0.003	0.001	0.001	0.001	0.000	0.000	0.002
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.006	0.008	0.005	0.002	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.001	0.002	0.003	0.003	0.002	0.004	0.003	0.001	0.006	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.001	0.000	0.001	0.000	0.000	0.003	0.002	0.001	0.003	0.000	0.000
55	130th Street, Calumet River	0.002	0.002	0.004	0.001	0.002	0.002	0.003	0.000	0.005	0.000	0.000
86	Burnham Avenue, Grand Calumet River	0.005	0.009	0.006	0.002	0.003	0.003	0.006	0.007	0.018	0.000	0.000
56	Indiana Avenue, Little Calumet River	0.003	0.006	0.002	0.003	0.002	0.004	0.007	0.001	0.005	0.000	0.000
76	Halsted Street, Little Calumet River	0.004	0.004	0.003	0.004	0.003	0.003	0.008	0.000	0.004	0.000	0.000
52	Wentworth Avenue, Little Calumet River	0.002	0.005	0.004	0.000	0.003	0.002	0.006	0.003	0.007	0.009	0.000
54	Joe Orr Road, Thorn Creek	0.003	0.005	0.002	0.002	0.002	0.002	0.007	0.002	0.008	0.000	0.000
97	170th Street, Thorn Creek	0.003	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.004	0.010	0.005	0.001	0.002	0.003	0.007	0.001	0.008	0.000	0.009
58	Ashland Avenue, Cal-Sag Channel	0.004	0.004	0.004	0.003	0.002	0.005	0.003	0.001	0.006	0.000	0.000
59	Cicero Avenue, Cal-Sag Channel	0.005	0.005	0.004	0.002	0.002	0.003	0.006	0.000	0.013	0.000	0.000
43	Route 83, Cal-Sag Channel	0.005	0.006	0.005	0.003	0.003	0.004	0.004	0.002	0.006	0.000	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.001	0.003	0.002	0.000	0.000	0.004	0.008	0.001	0.014	0.000	0.000
63	Longmeadow Lane, West Branch DuPage River	0.002	ND	0.004	0.000	0.002	0.011	0.005	0.001	0.018	0.000	0.000
89	Walnut Lane, West Branch DuPage River	0.001	0.005	0.002	0.000	0.000	0.006	0.006	0.001	0.016	0.000	0.000
64	Lake Street, West Branch DuPage River	0.002	0.004	0.003	0.002	0.000	0.006	0.005	0.000	0.018	0.000	0.000
79	Higgins Road, Salt Creek	0.002	0.006	0.004	0.000	0.000	0.005	0.006	0.001	0.011	0.020	0.000
80	Arlington Heights Road, Salt Creek	0.002	0.005	0.003	0.000	0.000	0.006	0.007	0.001	0.014	0.000	0.000
18	Devon Avenue, Salt Creek	0.003	0.004	0.002	0.000	0.000	0.004	0.010	0.001	0.006	0.000	0.000
24	Wolf Road, Salt Creek	0.004	0.009	0.004	0.002	0.000	0.008	0.006	0.002	0.011	0.000	0.000
109	Brookfield Avenue, Salt Creek	0.004	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.003	0.009	0.002	0.000	0.008	0.006	0.003	0.018	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.002	0.005	0.004	0.000	0.000	0.008	0.008	0.001	0.017	0.000	0.000
78	Wille Road, Higgins Creek	0.005	0.009	0.008	0.003	0.000	0.006	0.006	0.003	0.016	0.009	0.000
12	Lake-Cook Road, Buffalo Creek	0.002	0.006	0.003	0.000	0.000	0.005	0.009	0.002	0.017	0.000	0.000
13	Lake-Cook Road, Des Plaines River	0.005	0.005	0.003	0.000	0.000	0.006	0.008	0.001	0.016	0.000	0.000
17	Oakton Street, Des Plaines River	0.004	0.005	0.003	0.000	0.000	0.004	0.003	0.001	0.010	0.000	0.000
19	Belmont Avenue, Des Plaines River	0.005	0.006	0.003	0.000	0.000	0.005	0.003	0.000	0.016	0.008	0.000
20	Roosevelt Road, Des Plaines River	0.004	0.007	0.003	0.002	0.000	0.003	0.005	0.002	0.018	0.000	0.000
22	Ogden Avenue, Des Plaines River	0.005	0.008	0.004	0.000	0.000	0.002	0.008	0.000	0.012	0.000	0.000
23	Willow Springs Road, Des Plaines River	0.004	0.007	0.004	0.002	0.000	0.003	0.005	0.000	0.011	0.000	0.000
29	Stephen Street, Des Plaines River	0.005	0.007	0.003	0.002	0.000	0.004	0.004	0.001	0.019	0.009	0.000
91	Material Service Road, Des Plaines River	0.005	0.007	0.004	0.001	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-99

TOTAL MANGANESE MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.122	0.139	ND	ND	ND	0.088	0.077	1.945	0.089
106	Dundee Road, West Fork North Branch Chicago River	0.097	0.067	0.110	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.070	0.091	0.098	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.077	0.148	0.107	0.080	0.217	0.079	0.177	0.183	0.094	0.132	0.090
104	Glenview Road, North Branch Chicago River	0.062	0.060	0.078	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.081	0.096	0.131	0.100	0.162	0.115	0.123	0.163	0.082	0.101	0.103
105	Frontage Road, Skokie River	0.108	0.046	0.057	ND	ND	ND	ND	ND	ND	ND	ND
34	Dampster Street, North Branch Chicago River	0.112	0.083	0.098	0.067	0.059	0.067	0.066	0.130	0.057	0.065	0.073
96	Albany Avenue, North Branch Chicago River	0.072	0.057	0.068	0.035	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.020	0.028	0.037	0.021	0.024	0.017	0.026	0.026	0.019	0.008	0.013
102	Oakton Street, North Shore Channel	0.031	0.026	0.036	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.016	0.034	0.038	0.029	0.018	0.015	0.031	0.035	0.015	0.014	0.013
101	Foster Avenue, North Shore Channel	0.019	0.027	0.020	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.030	0.035	0.047	0.042	0.048	0.029	0.028	0.034	0.024	0.025	0.025
73	Diversey Parkway, North Branch Chicago River	0.046	0.036	0.053	0.081	0.027	0.045	0.164	0.042	0.024	0.025	0.043
46	Grand Avenue, North Branch Chicago River	0.038	0.042	0.043	0.044	0.028	0.052	0.026	0.026	0.034	0.031	0.033
74	Lake Shore Drive, Chicago River	0.013	0.017	0.020	0.035	0.010	0.009	0.015	0.010	0.017	0.007	0.032
100	Wells Street, Chicago River	0.020	0.021	0.027	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.028	0.036	0.037	0.039	0.027	0.021	0.019	0.027	0.025	0.022	0.023
108	Loomis Street, South Branch Chicago River	0.027	0.035	0.050	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.032	0.048	0.062	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.035	ND	ND	0.038	0.028	0.024	0.024	0.023	0.034	0.023	0.031
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.041	0.070	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.032	0.040	0.045	0.047	0.027	0.022	0.034	0.033	0.029	0.024	0.033
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.017	0.036	0.030	0.046	0.022	0.019	0.018	0.062	0.024	0.029	0.028
42	Route 83, Chicago Sanitary & Ship Canal	0.029	0.039	0.029	0.028	0.025	0.013	0.024	0.025	0.048	0.053	0.032
48	Stephen Street, Chicago Sanitary & Ship Canal	0.039	0.043	0.050	0.049	0.033	0.026	0.040	0.045	0.038	0.053	0.053
82	Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	0.049	0.083	0.066	0.093	0.078	0.035	0.039	0.046
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.037	0.053	0.045	0.074	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.020	0.022	0.030	0.024	0.029	0.028	0.014	0.042	0.082	0.021	0.019
50	Burnham Avenue, Wolf Lake	0.035	0.028	0.043	0.044	0.058	0.062	0.063	0.070	0.046	0.086	0.082
55	130th Street, Calumet River	0.039	0.031	0.046	0.037	0.031	0.038	0.037	0.082	0.035	0.028	0.029
86	Burnham Avenue, Grand Calumet River	0.158	0.098	0.093	0.090	0.058	0.044	0.052	0.159	0.118	0.196	0.113
56	Indiana Avenue, Little Calumet River	0.039	0.086	0.041	0.040	0.057	0.038	0.040	0.074	0.053	0.077	0.108
76	Halsted Street, Little Calumet River	0.041	0.053	0.068	0.058	0.056	0.045	0.046	0.070	0.078	0.068	0.087
52	Wentworth Avenue, Little Calumet River	0.124	0.134	0.145	0.138	0.130	0.149	0.109	0.196	0.104	0.172	0.160
54	Joe Orr Road, Thorn Creek	0.058	0.073	0.070	0.065	0.062	0.043	0.146	0.056	0.041	0.058	0.080
97	170th Street, Thorn Creek	0.080	0.102	0.100	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.109	0.104	0.126	0.093	0.100	0.098	0.089	0.089	0.082	0.098	0.130
58	Amnland Avenue, Cal-Sag Channel	0.055	0.066	0.071	0.069	0.078	0.053	0.048	0.121	0.096	0.073	0.096
59	Cicero Avenue, Cal-Sag Channel	0.078	0.073	0.078	0.064	0.065	0.058	0.060	0.104	0.060	0.078	0.092
43	Route 83, Cal-Sag Channel	0.094	0.063	0.076	0.063	0.061	0.053	0.064	0.077	0.066	0.085	0.093
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.083	0.103	0.107	0.155	0.068	0.164	0.208	0.136	0.113	0.104	0.119
63	Longmeadow Lane, West Branch DuPage River	0.060	ND	0.151	0.118	0.073	0.174	0.108	0.132	0.128	0.092	0.093
89	Walnut Lane, West Branch DuPage River	0.043	0.074	0.074	0.105	0.038	0.080	0.133	0.053	0.065	0.044	0.050
64	Lake Street, West Branch DuPage River	0.076	0.069	0.092	0.065	0.061	0.068	0.111	0.090	0.067	0.075	0.074
79	Higgins Road, Salt Creek	0.096	0.134	0.124	0.092	0.091	0.092	0.252	0.119	0.093	0.107	0.105
80	Arlington Heights Road, Salt Creek	0.052	0.051	0.051	0.061	0.050	0.064	0.115	0.058	0.051	0.063	0.058
18	Devon Avenue, Salt Creek	0.054	0.052	0.055	0.085	0.069	0.050	0.153	0.061	0.048	0.059	0.063
24	Wolf Road, Salt Creek	0.069	0.066	0.077	0.087	0.065	0.083	0.064	0.087	0.065	0.081	0.068
109	Brookfield Avenue, Salt Creek	0.072	0.042	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.065	0.101	0.061	0.055	0.068	0.058	0.076	0.053	0.084	0.075
77	Elmhurst Road, Higgins Creek	0.115	0.120	0.163	0.133	0.112	0.136	0.111	0.140	0.135	0.160	0.106
78	Wille Road, Higgins Creek	0.033	0.048	0.038	0.064	0.022	0.093	0.043	0.063	0.038	0.032	0.031
12	Lake-Cook Road, Buffalo Creek	0.134	0.458	0.116	0.148	0.168	0.165	0.195	0.197	0.137	0.178	0.128
13	Lake-Cook Road, Des Plaines River	0.083	0.089	0.090	0.071	0.065	0.111	0.218	0.094	0.069	0.092	0.091
17	Oakton Street, Des Plaines River	0.093	0.089	0.102	0.093	0.071	0.098	0.077	0.088	0.083	0.073	0.094
19	Belmont Avenue, Des Plaines River	0.076	0.079	0.090	0.069	0.059	0.096	0.074	0.094	0.080	0.093	0.080
20	Roosevelt Road, Des Plaines River	0.074	0.145	0.077	0.065	0.061	0.080	0.073	0.080	0.070	0.093	0.089
22	Ogden Avenue, Des Plaines River	0.077	0.066	0.075	0.060	0.056	0.068	0.072	0.072	0.091	0.110	0.093
23	Willow Springs Road, Des Plaines River	0.062	0.062	0.083	0.093	0.062	0.083	0.065	0.250	0.085	0.077	0.063
29	Stephen Street, Des Plaines River	0.066	0.060	0.086	0.081	0.064	0.078	0.072	0.078	0.073	0.086	0.076
91	Material Service Road, Des Plaines River	0.068	0.065	0.097	0.061	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-100

TOTAL MERCURY MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (µg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.000	0.000	ND	ND	ND	0.000	0.033	0.100	0.044
106	Dundee Road, West Fork North Branch Chicago River	0.000	0.028	0.000	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.016	0.045	0.013	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.029	0.015	0.007	0.000	0.019	0.044	0.030	0.125	0.030	0.040	0.017
104	Glenview Road, North Branch Chicago River	0.013	0.034	0.006	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.039	0.040	0.005	0.024	0.035	0.038	0.050	0.000	0.022	0.044	0.033
105	Frontage Road, Skokie River	0.021	0.030	0.010	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.012	0.031	0.000	0.022	0.037	0.040	0.036	0.000	0.030	0.036	0.033
96	Albany Avenue, North Branch Chicago River	0.016	0.023	0.013	0.000	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.010	0.038	0.006	0.000	0.012	0.028	0.040	0.000	0.000	0.025	0.017
102	Oakton Street, North Shore Channel	0.000	0.025	0.017	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.018	0.018	0.028	0.017	0.006	0.033	0.058	0.000	0.042	0.045	0.000
101	Foster Avenue, North Shore Channel	0.006	0.026	0.013	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.017	0.024	0.018	0.008	0.016	0.043	0.075	0.000	0.025	0.033	0.025
73	Diversey Parkway, North Branch Chicago River	0.010	0.035	0.013	0.059	0.036	0.043	0.092	0.000	0.033	0.025	0.017
46	Grand Avenue, North Branch Chicago River	0.041	0.046	0.000	0.028	0.021	0.043	0.895	0.008	0.086	0.000	0.033
74	Lake Shore Drive, Chicago River	0.044	0.020	0.000	0.015	0.025	0.044	0.009	0.036	0.000	0.010	0.017
100	Walls Street, Chicago River	0.033	0.013	0.006	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.058	0.031	0.000	0.029	0.028	0.033	0.009	0.000	0.000	0.040	0.000
108	Loomis Street, South Branch Chicago River	0.040	0.018	0.019	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.018	0.018	0.039	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.033	ND	ND	0.011	0.017	0.031	0.008	0.000	0.022	0.025	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.018	0.014	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.038	0.011	0.003	0.028	0.022	0.043	0.067	0.000	0.008	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.021	0.015	0.016	0.026	0.018	0.034	0.017	0.025	0.000	0.000	0.033
42	Route 83, Chicago Sanitary & Ship Canal	0.023	0.007	0.005	0.015	0.018	0.033	0.050	0.000	0.025	0.045	0.017
48	Stephen Street, Chicago Sanitary & Ship Canal	0.031	0.008	0.000	0.005	0.006	0.026	0.017	0.033	0.008	0.008	0.033
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	0.007	0.021	0.000	0.008	0.004	0.017	0.006	0.000
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.045	0.026	0.013	0.009	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.013	0.018	0.004	0.013	0.008	0.030	0.033	0.020	0.050	0.027	0.000
50	Burnham Avenue, Wolf Lake	0.038	0.021	0.009	0.010	0.021	0.027	0.033	0.017	0.064	0.058	0.000
55	130th Street, Calumet River	0.009	0.031	0.014	0.000	0.035	0.033	0.067	0.030	0.030	0.045	0.033
86	Burnham Avenue, Grand Calumet River	0.079	0.055	0.032	0.000	0.051	0.128	0.083	1.518	0.133	0.100	0.042
56	Indiana Avenue, Little Calumet River	0.027	0.034	0.021	0.008	0.029	0.041	0.064	0.020	0.000	0.018	0.017
76	Halsted Street, Little Calumet River	0.007	0.047	0.003	0.005	0.038	0.033	0.375	0.000	0.036	0.050	0.000
52	Wentworth Avenue, Little Calumet River	0.027	0.034	0.024	0.015	0.016	0.033	0.050	0.044	0.022	0.045	0.017
54	Joe Orr Road, Thorn Creek	0.053	0.044	0.004	0.000	0.035	0.036	0.042	0.000	0.009	0.067	0.000
97	170th Street, Thorn Creek	0.034	0.018	0.032	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.025	0.041	0.020	0.000	0.040	0.042	0.050	0.011	0.010	0.020	0.000
58	Ashland Avenue, Cal-Sag Channel	0.010	0.009	0.008	0.014	0.014	0.014	0.933	0.008	0.020	0.033	0.000
59	Cicero Avenue, Cal-Sag Channel	0.007	0.021	0.013	0.016	0.013	0.035	0.092	0.000	0.064	0.042	0.033
43	Route 83, Cal-Sag Channel	0.007	0.028	0.018	0.008	0.016	0.040	0.083	0.000	0.018	0.027	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.016	0.028	0.027	0.000	0.021	0.505	0.122	0.018	0.030	0.036	0.018
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	0.000	0.000	0.012	0.041	0.030	0.018	0.017	0.040	0.033
89	Walnut Lane, West Branch DuPage River	0.016	0.024	0.009	0.017	0.053	0.328	0.042	0.008	0.017	0.017	0.000
64	Lake Street, West Branch DuPage River	0.044	0.029	0.009	0.007	0.060	0.021	0.058	0.009	0.025	0.045	0.033
79	Higgins Road, Salt Creek	0.032	0.051	0.005	0.018	0.058	0.062	0.055	0.010	0.000	0.010	0.055
80	Arlington Heights Road, Salt Creek	0.041	0.030	0.009	0.000	0.057	0.067	0.050	0.008	0.025	0.030	0.000
18	Devon Avenue, Salt Creek	0.040	0.008	0.012	0.000	0.061	0.035	0.067	0.008	0.017	0.017	0.000
24	Wolf Road, Salt Creek	0.066	0.045	0.014	0.000	0.044	0.077	0.033	0.033	0.042	0.000	0.017
109	Brookfield Avenue, Salt Creek	0.035	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.000	0.009	0.000	0.062	0.019	0.027	0.017	0.017	0.064	0.050
77	Elmhurst Road, Higgins Creek	0.048	0.030	0.015	0.000	0.045	0.053	0.036	0.050	0.008	0.018	0.000
78	Wille Road, Higgins Creek	0.038	0.018	0.017	0.008	0.050	0.019	0.033	0.017	0.008	0.018	0.033
12	Lake-Cook Road, Buffalo Creek	0.029	0.039	0.010	0.000	0.068	0.045	0.055	0.008	0.025	0.030	0.017
13	Lake-Cook Road, Des Plaines River	0.021	0.023	0.016	0.000	0.056	0.058	0.045	0.000	0.050	0.067	0.017
17	Oakton Street, Des Plaines River	0.075	0.028	0.019	0.000	0.079	0.036	0.018	0.033	0.009	0.000	0.050
19	Belmont Avenue, Des Plaines River	0.053	0.041	0.000	0.000	0.062	0.052	0.025	0.025	0.000	0.025	0.017
20	Roosevelt Road, Des Plaines River	0.114	0.038	0.011	0.000	0.064	0.051	0.025	0.025	0.000	0.042	0.017
22	Ogden Avenue, Des Plaines River	0.054	0.055	0.017	0.000	0.064	0.012	0.017	0.000	0.033	0.045	0.033
23	Willow Springs Road, Des Plaines River	0.037	0.090	0.033	0.000	0.095	0.025	0.055	0.055	0.000	0.045	0.033
29	Stephen Street, Des Plaines River	0.016	0.044	0.029	0.000	0.065	0.033	0.017	0.000	0.017	0.055	0.033
91	Material Service Road, Des Plaines River	0.015	0.033	0.016	0.002	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-101

TOTAL ZINC MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.070	0.079	ND	ND	ND	0.033	0.024	6.600	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.045	0.031	0.091	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.028	0.046	0.047	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.022	0.022	0.056	0.020	0.027	0.005	0.019	0.013	0.005	0.040	0.000
104	Glenview Road, North Branch Chicago River	0.038	0.035	0.039	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.024	0.029	0.049	0.024	0.032	0.009	0.020	0.028	0.010	0.000	0.008
105	Frontage Road, Skokie River	0.047	0.043	0.038	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.046	0.042	0.040	0.036	0.058	0.008	0.025	0.035	0.012	0.018	0.008
96	Albany Avenue, North Branch Chicago River	0.036	0.038	0.041	0.038	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.025	0.028	0.023	0.015	0.007	0.001	0.009	0.012	0.004	0.000	0.000
102	Oakton Street, North Shore Channel	0.042	0.037	0.030	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.045	0.058	0.055	0.047	0.037	0.017	0.038	0.043	0.014	0.027	0.000
101	Foster Avenue, North Shore Channel	0.046	0.044	0.047	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.043	0.042	0.055	0.046	0.033	0.013	0.028	0.039	0.015	0.008	0.013
73	Diversey Parkway, North Branch Chicago River	0.058	0.045	0.056	0.062	0.043	0.020	0.057	0.053	0.013	0.000	0.000
46	Grand Avenue, North Branch Chicago River	0.064	0.049	0.049	0.049	0.035	0.015	0.034	0.028	0.023	0.017	0.008
74	Lake Shore Drive, Chicago River	0.024	0.023	0.039	0.031	0.011	0.008	0.025	0.006	0.006	0.000	0.000
100	Wells Street, Chicago River	0.030	0.028	0.044	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.042	0.077	0.061	0.043	0.028	0.011	0.024	0.027	0.016	0.000	0.017
108	Loomis Street, South Branch Chicago River	0.041	0.040	0.045	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.038	0.044	0.055	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.065	ND	ND	0.039	0.023	0.012	0.028	0.023	0.039	0.017	0.017
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.045	0.078	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.041	0.046	0.057	0.046	0.033	0.012	0.032	0.033	0.016	0.025	0.008
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.038	0.038	0.046	0.047	0.036	0.013	0.033	0.036	0.021	0.042	0.008
42	Route 83, Chicago Sanitary & Ship Canal	0.047	0.045	0.048	0.036	0.031	0.018	0.046	0.037	0.024	0.036	0.017
48	Stephen Street, Chicago Sanitary & Ship Canal	0.047	0.046	0.052	0.046	0.028	0.015	0.041	0.043	0.024	0.025	0.017
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	0.075	0.094	0.162	0.141	0.133	0.069	0.049	0.067
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.049	0.050	0.049	0.053	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.018	0.021	0.030	0.022	0.025	0.013	0.008	0.027	0.011	0.009	0.000
50	Burnham Avenue, Wolf Lake	0.019	0.013	0.026	0.015	0.013	0.008	0.007	0.016	0.003	0.008	0.000
55	130th Street, Calumet River	0.022	0.025	0.044	0.022	0.015	0.019	0.012	0.028	0.014	0.009	0.000
86	Burnham Avenue, Grand Calumet River	0.081	0.087	0.075	0.078	0.080	0.103	0.068	0.296	0.102	0.075	0.075
56	Indiana Avenue, Little Calumet River	0.034	0.051	0.034	0.040	0.032	0.028	0.025	0.031	0.018	0.009	0.017
76	Halsted Street, Little Calumet River	0.050	0.065	0.066	0.047	0.027	0.034	0.036	0.133	0.056	0.033	0.017
52	Wentworth Avenue, Little Calumet River	0.036	0.064	0.046	0.045	0.028	0.023	0.031	0.054	0.021	0.018	0.000
54	Joe Orr Road, Thorn Creek	0.040	0.054	0.065	0.060	0.041	0.032	0.054	0.042	0.025	0.025	0.008
97	170th Street, Thorn Creek	0.048	0.054	0.050	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.050	0.041	0.052	0.060	0.031	0.063	0.032	0.026	0.016	0.010	0.027
58	Ashland Avenue, Cal-Sag Channel	0.055	0.055	0.066	0.054	0.030	0.028	0.032	0.095	0.063	0.008	0.033
59	Cicero Avenue, Cal-Sag Channel	0.049	0.053	0.050	0.044	0.036	0.034	0.038	0.054	0.046	0.042	0.033
43	Route 83, Cal-Sag Channel	0.055	0.051	0.064	0.062	0.035	0.042	0.064	0.057	0.030	0.045	0.050
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.033	0.027	0.024	0.012	0.015	0.015	0.037	0.021	0.019	0.000	0.009
63	Longmeadow Lane, West Branch DuPage River	0.032	ND	0.041	0.022	0.036	0.023	0.035	0.040	0.043	0.000	0.017
89	Walnut Lane, West Branch DuPage River	0.053	0.069	0.061	0.047	0.042	0.059	0.042	0.038	0.058	0.008	0.017
64	Lake Street, West Branch DuPage River	0.051	0.045	0.066	0.037	0.029	0.039	0.040	0.053	0.038	0.018	0.033
79	Higgins Road, Salt Creek	0.029	0.023	0.027	0.018	0.020	0.006	0.027	0.026	0.020	0.000	0.000
80	Arlington Heights Road, Salt Creek	0.036	0.031	0.039	0.034	0.027	0.016	0.031	0.019	0.022	0.000	0.000
18	Devon Avenue, Salt Creek	0.036	0.035	0.035	0.034	0.033	0.014	0.028	0.017	0.023	0.000	0.008
24	Wolf Road, Salt Creek	0.051	0.061	0.054	0.143	0.052	0.045	0.031	0.032	0.032	0.027	0.008
109	Brookfield Avenue, Salt Creek	0.049	0.045	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.049	0.059	0.038	0.041	0.029	0.026	0.030	0.031	0.027	0.025
77	Elmhurst Road, Higgins Creek	0.050	0.040	0.041	0.032	0.025	0.029	0.015	0.038	0.032	0.036	0.000
78	Wille Road, Higgins Creek	0.066	0.075	0.062	0.067	0.045	0.062	0.043	0.045	0.050	0.036	0.033
12	Lake-Cook Road, Buffalo Creek	0.032	0.032	0.035	0.020	0.023	0.011	0.026	0.012	0.020	0.020	0.008
13	Lake-Cook Road, Des Plaines River	0.043	0.039	0.036	0.030	0.023	0.021	0.063	0.028	0.022	0.000	0.000
17	Oakton Street, Des Plaines River	0.048	0.038	0.037	0.033	0.025	0.024	0.014	0.023	0.029	0.033	0.008
19	Belmont Avenue, Des Plaines River	0.060	0.044	0.041	0.030	0.025	0.031	0.023	0.023	0.030	0.017	0.008
20	Roosevelt Road, Des Plaines River	0.059	0.047	0.038	0.029	0.033	0.023	0.028	0.025	0.033	0.017	0.017
22	Ogden Avenue, Des Plaines River	0.055	0.043	0.050	0.047	0.040	0.025	0.033	0.031	0.033	0.018	0.008
23	Willow Springs Road, Des Plaines River	0.045	0.037	0.048	0.056	0.035	0.033	0.029	0.032	0.025	0.009	0.017
29	Stephen Street, Des Plaines River	0.048	0.041	0.047	0.043	0.031	0.026	0.031	0.030	0.040	0.036	0.033
91	Material Service Road, Des Plaines River	0.052	0.037	0.049	0.046	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-102

TOTAL SELENIUM MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.000	0.000	ND	ND	ND	0.000	0.000	0.000	0.000
106	Dundee Road, West Fork North Branch Chicago River	0.003	0.010	0.000	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.003	0.007	0.006	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.005	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000
104	Glenview Road, North Branch Chicago River	0.002	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.005	0.009	0.002	0.000	0.000	0.000	0.000	0.000	0.021	0.000	0.000
105	Frontage Road, Skokie River	0.006	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.008	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.000	0.000
96	Albany Avenue, North Branch Chicago River	0.006	0.006	0.004	0.000	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.003	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102	Oakton Street, North Shore Channel	0.004	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.008	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
101	Foster Avenue, North Shore Channel	0.006	0.013	0.004	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.006	0.017	0.007	0.000	0.000	0.000	0.000	0.008	0.008	0.000	0.000
73	Diversey Parkway, North Branch Chicago River	0.006	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46	Grand Avenue, North Branch Chicago River	0.007	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000
74	Lake Shore Drive, Chicago River	0.005	0.009	0.003	0.000	0.000	0.000	0.024	0.000	0.024	0.000	0.000
100	Wells Street, Chicago River	0.004	0.010	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.004	0.010	0.003	0.000	0.000	0.000	0.019	0.000	0.007	0.000	0.000
108	Loomis Street, South Branch Chicago River	0.004	0.010	0.003	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.005	0.010	0.002	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.005	ND	ND	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.008	0.007	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.004	0.010	0.007	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.006	0.004	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
42	Route 83, Chicago Sanitary & Ship Canal	0.004	0.008	0.005	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000
48	Stephen Street, Chicago Sanitary & Ship Canal	0.005	0.009	0.007	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
82	Lockport Trail, Chicago Sanitary & Ship Canal	ND	ND	ND	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.005	0.007	0.009	0.001	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.005	0.005	0.003	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
50	Burnham Avenue, Wolf Lake	0.003	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	130th Street, Calumet River	0.003	0.008	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
86	Burnham Avenue, Grand Calumet River	0.004	0.009	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
56	Indiana Avenue, Little Calumet River	0.003	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76	Halsted Street, Little Calumet River	0.007	0.006	0.008	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52	Wentworth Avenue, Little Calumet River	0.003	0.012	0.008	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000
54	Joe Orr Road, Thorn Creek	0.009	0.009	0.003	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
97	170th Street, Thorn Creek	0.005	0.008	0.004	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.004	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58	Ashland Avenue, Cal-Sag Channel	0.006	0.012	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59	Cicero Avenue, Cal-Sag Channel	0.003	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000
43	Route 83, Cal-Sag Channel	0.004	0.011	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.016	0.010	0.004	0.000	0.000	0.000	0.000	0.000	0.013	0.000	0.000
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	0.005	0.000	0.000	0.000	0.003	0.002	0.013	0.000	0.000
89	Walnut Lane, West Branch DuPage River	0.005	0.010	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
64	Lake Street, West Branch DuPage River	0.005	0.007	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79	Higgins Road, Salt Creek	0.001	0.003	0.011	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000
80	Arlington Heights Road, Salt Creek	0.003	0.016	0.010	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
18	Devon Avenue, Salt Creek	0.005	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000
24	Wolf Road, Salt Creek	0.003	0.003	0.012	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000
109	Brookfield Avenue, Salt Creek	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.020	0.007	0.000	0.000	0.000	0.000	0.001	0.020	0.000	0.000
77	Elmhurst Road, Higgins Creek	0.005	0.008	0.008	0.000	0.000	0.000	0.000	0.003	0.023	0.000	0.000
78	Wille Road, Higgins Creek	0.006	0.010	0.007	0.000	0.000	0.000	0.017	0.000	0.007	0.000	0.000
12	Lake-Cook Road, Buffalo Creek	0.001	0.007	0.010	0.020	0.000	0.000	0.000	0.004	0.000	0.000	0.000
13	Lake-Cook Road, Des Plaines River	0.006	0.007	0.009	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
17	Oakton Street, Des Plaines River	0.004	0.010	0.003	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000
19	Belmont Avenue, Des Plaines River	0.004	0.008	0.008	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000
20	Roosevelt Road, Des Plaines River	0.002	0.006	0.007	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000
22	Ogden Avenue, Des Plaines River	0.007	0.017	0.008	0.000	0.000	0.000	0.000	0.001	0.007	0.000	0.000
23	Willow Springs Road, Des Plaines River	0.004	0.006	0.005	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000
29	Stephen Street, Des Plaines River	0.003	0.003	0.006	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000
91	Material Service Road, Des Plaines River	0.005	0.003	0.005	0.005	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-103

SOLUBLE CALCIUM MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	53.733	73.297	70.330	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	65.984	66.160	66.061	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	61.980	65.896	65.622	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	65.733	63.709	62.993	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	66.378	69.844	73.849	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	56.830	62.046	61.846	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	61.355	63.101	61.104	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	62.448	64.680	63.309	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	38.956	39.534	34.710	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	46.203	47.432	39.658	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	51.148	54.804	52.707	ND	ND	ND	ND	ND	ND	ND	ND
101	Poster Avenue, North Shore Channel	52.242	54.386	53.508	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	53.763	55.787	55.577	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	52.711	55.074	56.383	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	54.448	55.054	56.536	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	39.117	40.201	41.389	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	46.241	43.907	46.357	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	53.008	53.291	48.880	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	51.451	52.901	48.551	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	49.818	50.928	48.612	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	53.003	47.943	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	49.938	52.535	48.892	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	52.049	52.444	50.687	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	55.219	54.094	51.636	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	57.676	55.817	56.738	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	55.729	56.448	56.956	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	35.762	36.400	35.431	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	31.792	30.398	28.423	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	41.088	42.443	43.045	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	83.907	75.513	69.188	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	47.393	51.738	48.476	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	59.340	60.140	63.145	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	90.651	87.155	70.142	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	60.660	79.067	74.132	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	77.366	85.754	74.735	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	82.102	80.203	67.749	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	62.798	63.358	62.910	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	61.706	62.278	62.558	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	61.129	60.809	63.986	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	60.543	72.104	66.946	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	53.180	ND	84.637	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	53.016	58.204	58.793	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	52.726	60.275	62.092	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	53.018	59.000	72.061	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	56.700	63.759	59.974	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	57.170	63.546	61.787	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	56.949	69.631	66.212	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	55.065	55.387	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	84.870	66.051	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	46.296	57.127	64.010	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	61.173	70.495	76.114	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	61.317	76.223	73.306	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	62.033	70.209	68.781	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	59.440	68.729	69.102	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	59.255	68.468	67.848	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	54.027	69.751	68.063	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	64.918	69.187	66.235	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	56.230	66.856	66.617	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	60.338	70.360	67.287	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	62.159	70.366	64.557	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-104

SOLUBLE MAGNESIUM MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	21.584	31.806	33.968	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	25.961	27.803	30.760	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	27.556	30.563	30.811	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	28.048	27.786	29.426	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	27.890	31.043	31.471	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	23.913	27.197	28.810	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	24.814	27.045	27.183	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	25.697	27.292	28.821	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	13.407	13.808	11.347	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	15.561	16.440	14.562	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	18.171	19.910	19.810	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	18.544	19.738	20.126	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	19.373	20.937	21.664	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	18.775	20.408	22.002	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	19.421	20.348	21.897	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	13.123	13.681	14.318	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	16.020	15.518	17.089	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	19.146	19.793	18.370	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	18.079	19.672	17.922	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	17.539	18.525	17.875	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	19.755	18.084	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	17.282	19.554	18.300	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	18.116	19.308	19.211	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	19.540	19.972	19.807	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	20.414	20.795	21.672	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	20.120	20.888	22.310	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	11.859	11.759	11.443	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	12.217	12.554	11.164	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	13.735	14.487	15.022	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	62.375	64.465	49.388	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	17.378	21.214	19.064	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	20.120	21.544	23.440	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	35.265	35.508	29.515	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	24.844	35.855	35.167	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	33.455	42.594	36.499	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	33.316	34.655	30.679	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	22.831	24.212	23.903	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	22.207	23.342	24.028	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	22.238	23.345	24.855	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	26.426	32.503	32.337	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	19.435	ND	34.760	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	18.917	22.185	23.670	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	18.882	22.999	24.462	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	21.224	27.437	33.993	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	21.806	25.495	24.481	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	21.392	25.132	25.260	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	21.874	28.552	29.114	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	21.432	22.932	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	33.616	28.679	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	14.258	20.150	26.287	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	21.691	26.055	30.449	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	27.466	36.056	34.821	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	27.097	32.297	32.482	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Steet, Des Plaines River	25.562	31.422	32.967	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	23.766	30.224	31.376	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	22.291	30.855	31.829	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	25.328	29.947	30.234	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	22.856	29.502	30.715	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	24.572	30.183	30.490	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	25.514	30.827	29.331	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-105

SOLUBLE SILVER MEAN HISTORY THROUGH 2003

Sampling Station		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.001	0.001	0.001	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	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trestle, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.001	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.000	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	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	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-106

SOLUBLE ARSENIC MEAN HISTORY THROUGH 2003

Sampling Station		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	0.002	0.004	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.004	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.000	0.001	0.003	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.000	0.000	0.002	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.000	0.001	0.004	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.000	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.000	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.000	0.001	0.006	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.000	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	0.001	0.005	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.004	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.004	0.002	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	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.000	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.000	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 93, Cal-Sag Channel	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.000	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.000	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.003	0.005	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.000	0.000	0.004	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	0.000	0.002	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.001	0.002	0.006	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Steet, Des Plaines River	0.000	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.000	0.001	0.003	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	0.000	0.005	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.000	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.000	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.000	0.001	0.003	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-107

SOLUBLE BARIUM MEAN HISTORY THROUGH 2003

Sampling Station		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	0.034	0.044	0.053	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.043	0.040	0.040	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.037	0.036	0.040	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.033	0.027	0.030	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.039	0.039	0.040	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.024	0.025	0.029	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.032	0.030	0.033	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.032	0.032	0.033	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.021	0.022	0.021	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.021	0.019	0.021	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.017	0.019	0.019	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.018	0.018	0.018	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.020	0.021	0.021	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.019	0.020	0.022	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.019	0.019	0.021	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.021	0.021	0.021	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.020	0.021	0.022	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.017	0.020	0.021	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.019	0.020	0.021	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.017	0.020	0.023	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	0.020	0.020	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.017	0.020	0.020	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.015	0.017	0.017	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.015	0.016	0.017	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.017	0.017	0.019	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	0.017	0.018	0.019	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.019	0.021	0.022	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.025	0.024	0.025	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.024	0.029	0.031	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.018	0.017	0.017	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.023	0.028	0.028	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.016	0.018	0.022	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.034	0.032	0.031	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.024	0.026	0.024	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.027	0.029	0.028	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.032	0.030	0.028	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.018	0.020	0.021	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.019	0.019	0.021	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.017	0.020	0.022	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.071	0.061	0.055	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.035	ND	0.058	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.024	0.024	0.024	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.025	0.028	0.029	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.036	0.035	0.048	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.027	0.024	0.025	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.026	0.024	0.027	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.024	0.028	0.031	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.025	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.037	0.032	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.040	0.048	0.056	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.018	0.022	0.024	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.034	0.044	0.045	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.031	0.034	0.033	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.032	0.035	0.035	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.027	0.033	0.033	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.027	0.034	0.034	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.027	0.032	0.033	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.027	0.031	0.033	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.028	0.032	0.032	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.028	0.031	0.031	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-108

SOLUBLE BORON MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	0.132	0.118	0.158	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.122	0.139	0.139	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.098	0.101	0.093	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.130	0.148	0.143	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.115	0.103	0.098	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.174	0.167	0.148	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.159	0.151	0.111	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.150	0.148	0.129	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Branch Channel	0.044	0.030	0.023	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.081	0.104	0.060	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.173	0.169	0.196	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.157	0.158	0.186	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.148	0.144	0.169	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.155	0.141	0.160	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.150	0.146	0.160	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.050	0.044	0.064	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.096	0.068	0.081	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.130	0.125	0.117	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.118	0.123	0.119	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.130	0.121	0.121	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	0.123	0.115	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.132	0.130	0.119	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.176	0.169	0.163	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.206	0.218	0.189	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.202	0.211	0.205	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Treblex, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.186	0.185	0.187	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.028	0.029	0.037	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.082	0.088	0.097	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.065	0.108	0.124	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.375	0.358	0.327	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.113	0.145	0.143	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.177	0.186	0.194	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.256	0.296	0.185	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.243	0.327	0.324	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.230	0.290	0.228	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.254	0.247	0.198	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.181	0.208	0.203	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.184	0.188	0.194	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.156	0.172	0.195	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.046	0.041	0.047	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.039	ND	0.068	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.231	0.262	0.296	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.204	0.203	0.222	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.068	0.077	0.090	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.171	0.185	0.217	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.164	0.174	0.208	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.160	0.198	0.182	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.158	0.227	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.159	0.182	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.055	0.057	0.103	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.256	0.306	0.384	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.066	0.085	0.086	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.179	0.162	0.159	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Steet, Des Plaines River	0.165	0.152	0.151	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.169	0.178	0.169	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.184	0.189	0.184	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.182	0.191	0.161	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.165	0.203	0.161	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.184	0.182	0.154	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.195	0.193	0.155	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-109

SOLUBLE CADMIUM MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	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	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
56	Indians Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-110

SOLUBLE COPPER MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	0.005	0.010	0.010	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.002	0.007	0.007	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.001	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.001	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.001	0.008	0.003	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.001	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.001	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.001	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.001	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.001	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.001	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.001	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.000	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.001	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.002	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.001	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.002	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.002	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.001	0.006	0.004	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	0.005	0.005	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.002	0.005	0.005	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.001	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.000	0.005	0.004	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	0.001	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.001	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.000	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.000	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.000	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.000	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.001	0.002	0.004	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.001	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.000	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.001	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.004	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.004	0.010	0.008	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.003	0.008	0.006	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.001	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.002	0.009	0.008	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.002	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.003	0.008	0.005	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.003	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.010	0.006	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.003	0.007	0.003	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.002	0.006	0.005	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.001	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.002	0.006	0.005	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.001	0.005	0.004	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.002	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.001	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.002	0.006	0.006	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.002	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.002	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.002	0.008	0.004	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-111

SOLUBLE CHROMIUM MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	0.003	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.001	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.001	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.001	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.002	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.002	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.001	0.002	0.000	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	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.002	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trestle, 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	0.002	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.001	0.006	0.001	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.002	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.001	0.007	0.001	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.002	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.002	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.001	0.007	0.003	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.001	0.007	0.001	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.001	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.001	0.005	0.001	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.001	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.001	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.001	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.001	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.001	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.001	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.025	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.013	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.001	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-112

SOLUBLE IRON MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	0.120	0.020	ND	ND	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0.042	0.173	0.099	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.025	0.123	0.090	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.070	0.192	0.120	0.185	0.291	0.177	0.206	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.045	0.124	0.097	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.071	0.168	0.115	0.183	0.212	0.178	0.204	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.036	0.119	0.098	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.035	0.120	0.083	0.108	0.111	0.108	0.134	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.038	0.120	0.086	0.092	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.021	0.076	0.042	0.072	0.074	0.070	0.057	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.047	0.075	0.053	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.026	0.093	0.070	0.041	0.047	0.031	0.042	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.037	0.107	0.076	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.038	0.104	0.084	0.055	0.068	0.054	0.063	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.049	0.108	0.080	0.067	0.073	0.057	0.068	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.048	0.106	0.081	0.058	0.073	0.054	0.072	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.012	0.055	0.047	0.038	0.034	0.025	0.037	ND	ND	ND	ND
100	Wells Street, Chicago River	0.021	0.068	0.053	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.035	0.098	0.076	0.051	0.079	0.067	0.060	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.027	0.096	0.079	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.028	0.105	0.112	ND	ND	ND	ND	ND	ND	ND	ND
40	Damen Avenue, Chicago Sanitary & Ship Canal	0.030	ND	ND	0.061	0.077	0.073	0.056	ND	ND	ND	ND
107	Western Avenue, Chicago Sanitary & Ship Canal	ND	0.094	0.065	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.091	0.073	0.048	0.085	0.064	0.053	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.029	0.096	0.106	0.045	0.053	0.047	0.050	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.033	0.100	0.074	0.043	0.053	0.043	0.053	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.031	0.103	0.078	0.056	0.060	0.075	0.063	ND	ND	ND	ND
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	0.058	0.062	0.123	0.025	0.019	0.006	0.008	0.049
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.030	0.100	0.079	0.048	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.006	0.044	0.032	0.038	0.028	0.067	0.039	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.010	0.050	0.035	0.028	0.030	0.032	0.026	ND	ND	ND	ND
55	130th Street, Calumet River	0.011	0.054	0.044	0.041	0.037	0.044	0.050	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.052	0.220	0.142	0.248	0.198	0.273	0.181	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.013	0.078	0.057	0.053	0.052	0.059	0.084	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.037	0.107	0.082	0.068	0.065	0.059	0.087	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.054	0.155	0.120	0.255	0.232	0.459	0.328	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.082	0.191	0.116	0.124	0.083	0.268	0.180	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.053	0.156	0.121	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.057	0.136	0.104	0.110	0.145	0.355	0.238	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.040	0.112	0.087	0.088	0.090	0.124	0.262	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.034	0.102	0.087	0.065	0.084	0.165	0.160	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.025	0.099	0.087	0.069	0.081	0.123	0.153	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.057	0.151	0.109	0.127	0.195	0.191	0.403	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.108	ND	0.185	0.249	0.217	0.306	0.305	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.069	0.119	0.096	0.088	0.066	0.059	0.103	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.049	0.108	0.085	0.148	0.119	0.123	0.198	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.095	0.125	0.093	0.183	0.198	0.192	0.295	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.055	0.152	0.107	0.116	0.126	0.091	0.119	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.049	0.136	0.111	0.133	0.136	0.093	0.137	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.056	0.127	0.094	0.099	0.125	0.075	0.164	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.040	0.084	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.184	0.096	0.116	0.121	0.084	0.139	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.086	0.123	0.098	0.147	0.259	0.226	0.247	ND	ND	ND	ND
78	Willie Road, Higgins Creek	0.044	0.134	0.108	0.057	0.048	0.081	0.073	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.043	0.153	0.109	0.178	0.228	0.179	0.211	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.037	0.127	0.100	0.149	0.166	0.108	0.187	ND	ND	ND	ND
17	Oakton Steet, Des Plaines River	0.032	0.124	0.112	0.158	0.152	0.110	0.218	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.034	0.123	0.098	0.126	0.137	0.114	0.185	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.040	0.127	0.096	0.167	0.126	0.110	0.165	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.046	0.121	0.105	0.132	0.135	0.098	0.164	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.033	0.112	0.098	0.121	0.139	0.100	0.146	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.026	0.118	0.110	0.108	0.135	0.097	0.123	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.032	0.120	0.094	0.093	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-113

SOLUBLE LEAD MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	0.002	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.002	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.002	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.002	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.002	0.001	0.000	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	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.002	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.002	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trestler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.001	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.001	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.001	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.001	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.002	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.003	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.001	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.001	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.003	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.001	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.002	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-114

SOLUBLE NICKEL MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (mg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.000	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.001	0.002	0.001	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.002	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.003	0.003	0.004	ND	ND	ND	ND	ND	ND	ND	ND
101	Poster Avenue, North Shore Channel	0.003	0.004	0.005	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.003	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.003	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.005	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.001	0.001	0.004	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.003	0.002	0.008	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.004	0.005	0.006	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.004	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.004	0.004	0.003	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	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.003	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.004	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.005	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.005	0.006	0.003	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	0.005	0.005	0.003	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.002	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.001	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.002	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.000	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.001	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.002	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.001	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.002	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.002	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.000	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.000	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.001	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.002	0.008	0.003	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.002	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.002	0.004	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.001	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.004	0.007	0.008	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.003	0.004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.002	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.003	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.002	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.003	0.006	0.003	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.003	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.002	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.003	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-115

SOLUBLE MANGANESE MEAN HISTORY THROUGH 2003

Sampling Station		Annual Means (mg/L)										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	0.032	0.034	0.057	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.037	0.047	0.040	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.057	0.111	0.050	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.025	0.023	0.028	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.065	0.066	0.073	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.012	0.013	0.027	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.034	0.032	0.037	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.025	0.023	0.030	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.010	0.012	0.013	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.019	0.013	0.022	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.010	0.017	0.023	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.012	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.015	0.018	0.019	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.021	0.019	0.029	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.024	0.023	0.026	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.007	0.009	0.010	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.016	0.012	0.015	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.022	0.023	0.019	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.020	0.023	0.022	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.024	0.033	0.042	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	0.025	0.031	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.020	0.022	0.018	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.013	0.013	0.015	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.020	0.016	0.022	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.026	0.024	0.028	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	0.026	0.030	0.027	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.006	0.006	0.007	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.004	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.005	0.004	0.007	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.108	0.078	0.057	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.008	0.011	0.009	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.026	0.031	0.040	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.090	0.094	0.089	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.026	0.054	0.038	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.046	0.046	0.043	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.083	0.063	0.058	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.033	0.043	0.039	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.033	0.044	0.044	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.024	0.034	0.043	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.040	0.057	0.063	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.029	ND	0.093	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.029	0.048	0.046	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.037	0.036	0.040	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.023	0.034	0.041	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.020	0.018	0.021	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.021	0.020	0.027	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.029	0.035	0.034	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.026	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.037	0.035	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.074	0.073	0.099	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.019	0.022	0.018	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.025	0.054	0.048	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.030	0.029	0.024	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.025	0.034	0.021	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.029	0.052	0.032	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.021	0.050	0.025	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.033	0.027	0.021	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.019	0.028	0.021	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.018	0.021	0.018	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.019	0.016	0.015	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-116

SOLUBLE MERCURY MEAN HISTORY THROUGH 2003

Sampling Station No. Name		Annual Means (µg/L)										
		03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
30	Lake-Cook Road, West Fork North Branch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106	Dundee Road, West Fork North Branch Chicago River	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.020	0.008	0.000	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.075	0.010	0.000	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	ND	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.065	0.013	0.000	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.000	0.032	0.000	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.075	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.075	0.058	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.000	0.008	0.000	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	ND	0.038	0.000	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.000	0.030	0.000	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.000	0.008	0.000	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.000	0.027	0.000	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.000	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.015	0.090	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.000	0.030	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.075	0.030	ND	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.000	0.020	0.060	ND	ND	ND	ND	ND	0.060	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.000	0.023	0.000	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	0.010	0.000	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.007	0.033	0.017	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.087	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
82	Lockport Trebler, Chicago Sanitary & Ship Canal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
92	Lockport Forebay, Chicago Sanitary & Ship Canal	0.002	0.013	0.016	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.000	0.028	0.000	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	ND	0.020	0.000	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.022	0.026	0.000	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.000	0.020	0.000	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.000	0.019	0.000	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.000	0.020	0.000	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.070	0.020	0.000	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.000	0.018	0.000	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.070	0.023	0.000	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.000	0.022	0.000	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.000	0.028	0.000	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.000	0.013	0.080	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	0.000	0.007	0.025	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.000	0.003	0.020	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.000	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.070	0.000	0.020	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.020	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.000	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	ND	0.020	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.000	0.033	0.040	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.000	0.005	0.033	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.000	0.025	0.000	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.045	0.048	0.030	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.033	0.020	0.017	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.000	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.000	0.015	0.000	ND	ND	ND	ND	ND	0.015	ND	ND
22	Ogden Avenue, Des Plaines River	0.090	0.004	0.025	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.000	0.018	0.015	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.005	0.003	0.010	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.000	0.018	0.010	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-117

SOLUBLE ZINC MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
<u>No.</u>	<u>Name</u>	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	0.012	0.010	0.035	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.008	0.012	0.011	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.004	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.013	0.017	0.014	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.006	0.009	0.007	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.022	0.021	0.012	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.014	0.017	0.011	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.012	0.017	0.012	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.006	0.007	0.004	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.015	0.020	0.009	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.029	0.032	0.029	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.027	0.027	0.027	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.024	0.025	0.024	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.024	0.025	0.024	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.026	0.028	0.021	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.009	0.013	0.015	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.018	0.014	0.016	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.023	0.023	0.018	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.023	0.023	0.017	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.020	0.019	0.013	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	0.023	0.025	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.019	0.021	0.018	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.023	0.022	0.022	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.026	0.028	0.022	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.024	0.025	0.020	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	0.024	0.025	0.018	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.005	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.001	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.003	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.021	0.031	0.024	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.009	0.015	0.008	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.031	0.032	0.023	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.012	0.018	0.010	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.021	0.036	0.028	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.023	0.030	0.013	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.024	0.014	0.010	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.031	0.024	0.024	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.019	0.025	0.020	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.019	0.023	0.017	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.010	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.009	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.032	0.036	0.032	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.027	0.026	0.027	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.003	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.018	0.019	0.020	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.018	0.019	0.016	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.025	0.029	0.019	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.017	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.028	0.020	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.016	0.013	0.012	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.049	0.048	0.043	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.002	0.007	0.002	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.018	0.017	0.013	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.014	0.016	0.009	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.025	0.024	0.014	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.020	0.023	0.011	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.028	0.022	0.015	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.017	0.019	0.012	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.019	0.020	0.012	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.021	0.018	0.010	ND	ND	ND	ND	ND	ND	ND	ND

ND - No data

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AII-118

SOLUBLE SELENIUM MEAN HISTORY THROUGH 2003

<u>Sampling Station</u>		<u>Annual Means (mg/L)</u>										
No.	Name	03	02	01	00	99	98	97	96	95	94	93
<u>Chicago River System</u>												
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	0.007	0.000	ND	ND	ND	ND	ND	ND	ND	ND
103	Golf Road, West Fork North Branch Chicago River	0.005	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND
31	Lake-Cook Road, Middle Fork North Branch	0.002	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND
104	Glenview Road, North Branch Chicago River	0.002	0.004	0.002	ND	ND	ND	ND	ND	ND	ND	ND
32	Lake-Cook Road, Skokie River	0.004	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND
105	Frontage Road, Skokie River	0.006	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
34	Dempster Street, North Branch Chicago River	0.005	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND
96	Albany Avenue, North Branch Chicago River	0.003	0.006	0.000	ND	ND	ND	ND	ND	ND	ND	ND
35	Central Street, North Shore Channel	0.003	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND
102	Oakton Street, North Shore Channel	0.001	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
36	Touhy Avenue, North Shore Channel	0.006	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND
101	Foster Avenue, North Shore Channel	0.004	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND
37	Wilson Avenue, North Branch Chicago River	0.004	0.006	0.002	ND	ND	ND	ND	ND	ND	ND	ND
73	Diversey Parkway, North Branch Chicago River	0.005	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND
46	Grand Avenue, North Branch Chicago River	0.005	0.007	0.000	ND	ND	ND	ND	ND	ND	ND	ND
74	Lake Shore Drive, Chicago River	0.003	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
100	Wells Street, Chicago River	0.004	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
39	Madison Street, South Branch Chicago River	0.002	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
108	Loomis Street, South Branch Chicago River	0.005	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
99	Archer Avenue, South Fork South Branch Chicago River	0.004	0.002	0.000	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	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND
75	Cicero Avenue, Chicago Sanitary & Ship Canal	0.004	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND
41	Harlem Avenue, Chicago Sanitary & Ship Canal	0.003	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
42	Route 83, Chicago Sanitary & Ship Canal	0.002	0.001	0.002	ND	ND	ND	ND	ND	ND	ND	ND
48	Stephen Street, Chicago Sanitary & Ship Canal	0.004	0.002	0.005	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	0.004	0.005	0.001	ND	ND	ND	ND	ND	ND	ND	ND
<u>Calumet River System</u>												
49	Ewing Avenue, Calumet River	0.004	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
50	Burnham Avenue, Wolf Lake	0.003	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
55	130th Street, Calumet River	0.003	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
86	Burnham Avenue, Grand Calumet River	0.002	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND
56	Indiana Avenue, Little Calumet River	0.003	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND
76	Halsted Street, Little Calumet River	0.005	0.003	0.000	ND	ND	ND	ND	ND	ND	ND	ND
52	Wentworth Avenue, Little Calumet River	0.003	0.003	0.005	ND	ND	ND	ND	ND	ND	ND	ND
54	Joe Orr Road, Thorn Creek	0.008	0.000	0.005	ND	ND	ND	ND	ND	ND	ND	ND
97	170th Street, Thorn Creek	0.004	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
57	Ashland Avenue, Little Calumet River	0.003	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND
58	Ashland Avenue, Cal-Sag Channel	0.005	0.001	0.000	ND	ND	ND	ND	ND	ND	ND	ND
59	Cicero Avenue, Cal-Sag Channel	0.004	0.005	0.004	ND	ND	ND	ND	ND	ND	ND	ND
43	Route 83, Cal-Sag Channel	0.004	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND
<u>Des Plaines River System</u>												
90	Route 19, Poplar Creek	0.003	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
63	Longmeadow Lane, West Branch DuPage River	0.000	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND
89	Walnut Lane, West Branch DuPage River	0.004	0.003	0.002	ND	ND	ND	ND	ND	ND	ND	ND
64	Lake Street, West Branch DuPage River	0.005	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND
79	Higgins Road, Salt Creek	0.001	0.006	0.000	ND	ND	ND	ND	ND	ND	ND	ND
80	Arlington Heights Road, Salt Creek	0.002	0.004	0.000	ND	ND	ND	ND	ND	ND	ND	ND
18	Devon Avenue, Salt Creek	0.003	0.002	0.000	ND	ND	ND	ND	ND	ND	ND	ND
24	Wolf Road, Salt Creek	0.003	0.008	0.000	ND	ND	ND	ND	ND	ND	ND	ND
109	Brookfield Avenue, Salt Creek	0.003	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	First Avenue, Salt Creek	ND	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	ND
77	Elmhurst Road, Higgins Creek	0.003	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND
78	Wille Road, Higgins Creek	0.004	0.006	0.000	ND	ND	ND	ND	ND	ND	ND	ND
12	Lake-Cook Road, Buffalo Creek	0.003	0.010	0.002	ND	ND	ND	ND	ND	ND	ND	ND
13	Lake-Cook Road, Des Plaines River	0.005	0.010	0.002	ND	ND	ND	ND	ND	ND	ND	ND
17	Oakton Street, Des Plaines River	0.003	0.006	0.004	ND	ND	ND	ND	ND	ND	ND	ND
19	Belmont Avenue, Des Plaines River	0.004	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND
20	Roosevelt Road, Des Plaines River	0.003	0.006	0.000	ND	ND	ND	ND	ND	ND	ND	ND
22	Ogden Avenue, Des Plaines River	0.005	0.010	0.002	ND	ND	ND	ND	ND	ND	ND	ND
23	Willow Springs Road, Des Plaines River	0.003	0.005	0.000	ND	ND	ND	ND	ND	ND	ND	ND
29	Stephen Street, Des Plaines River	0.002	0.006	0.000	ND	ND	ND	ND	ND	ND	ND	ND
91	Material Service Road, Des Plaines River	0.003	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND

ND = No data

APPENDIX III

SIGNIFICANCE TESTS ON 2003 UPSTREAM AND DOWNSTREAM SAMPLE MEANS

SIGNIFICANCE PROBABILITIES ASSOCIATED WITH APPROPRIATE TEST



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-1

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT NORTH SIDE WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0:s_u=s_d$ F	$H_0:m_u=m_d$ Exact T	$H_0:m_u=m_d$ Approx T	$H_0:m_u=m_d$ Wilcox T	$H_0:m_u=m_d$ Appropriate
BOD <sub>5</sub> (mg/L)	0.220	0.997	0.276	0.002	0.002	0.006	0.002
CBOD <sub>5</sub> (mg/L)	0.570	0.842	0.236	0.532	0.548	0.457	0.532
DO (mg/L)	1.000	1.000	0.007	0.529	0.576	0.413	0.576
Temp (°C)	0.710	0.996	0.214	0.767	0.777	0.570	0.767
pH	0.921	0.983	0.014	0.704	0.733	0.313	0.733
Alk (mg/L)	0.998	0.973	0.086	0.007	0.005	0.004	0.007
Cl (mg/L)	0.348	0.216	0.005	0.105	0.076	0.012	0.076
Turb (NTU)	0.994	0.103	0.108	0.363	0.333	0.019	0.363
TKN (mg/L)	0.983	0.996	0.007	0.004	0.002	0.002	0.002
NH <sub>4</sub> -N (mg/L)	0.977	0.978	0.001	0.007	0.004	0.003	0.004
NH <sub>3</sub> -N (mg/L)	0.535	0.771	0.015	0.073	0.052	0.021	0.052
ORG-N (mg/L)	0.995	0.818	0.345	0.007	0.007	0.003	0.007
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.224	0.802	0.377	0.000	0.000	0.001	0.000
TS (mg/L)	0.739	1.000	0.484	0.004	0.004	0.007	0.004
TSS (mg/L)	0.594	0.185	0.195	0.864	0.858	0.349	0.864
VSS (mg/L)	0.907	1.000	0.444	0.209	0.213	0.220	0.209
TDS (mg/L)	0.751	1.000	0.480	0.004	0.004	0.008	0.004
Phenol (µg/L)	0.860	0.943	0.218	0.003	0.005	0.008	0.003
SO <sub>4</sub> (mg/L)	0.974	0.998	0.447	0.008	0.008	0.017	0.008
T.P (mg/L)	0.439	0.990	0.183	0.000	0.000	0.000	0.000
CN (mg/L)	0.423	0.905	0.334	0.000	0.000	0.001	0.000
WAD-CN (mg/L)	1.000	0.792	0.263	0.000	0.000	0.000	0.000
F (mg/L)	0.646	0.664	0.271	0.000	0.000	0.001	0.000
TOC (mg/L)	0.605	0.999	0.129	0.000	0.001	0.003	0.000

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-1 (Continued)

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT NORTH SIDE WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0$ : $s_u=s_d$ F	$H_0$ : $m_u=m_d$ Exact T	$H_0$ : $m_u=m_d$ Approx T	$H_0$ : $m_u=m_d$ Wilcox T	$H_0$ : $m_u=m_d$ Appropriate
FC (cfu/100ml)*	0.991	1.000	0.000	0.000	0.002	0.001	0.002
EColi (cfu/100ml)*	1.000	0.901	0.020	0.045	0.142	0.112	0.142
Ca (mg/L)	0.891	0.991	0.063	0.004	0.002	0.004	0.004
Mg (mg/L)	0.923	0.541	0.131	0.004	0.002	0.003	0.004
Hard (mg/L)	0.786	0.924	0.082	0.004	0.002	0.003	0.004
G.Alpha (pCi/L)	1.000	1.000	0.248	0.758	0.764	0.879	0.758
G.Beta (pCi/L)	0.517	1.000	0.331	0.002	0.003	0.005	0.002
Chlrphl (µg/L)	0.091	0.633	0.000	0.214	0.301	0.199	0.301
Bnzn (µg/L)	-	-	-	-	-	-	-
Ebnzn (µg/L)	-	-	-	-	-	-	-
Toln (µg/L)	-	-	-	-	-	-	-
Xyln (µg/L)	-	-	-	-	-	-	-
Ag (mg/L)	0.093	0.078	0.207	0.489	0.470	0.562	0.489
Ba (mg/L)	1.000	0.891	0.108	0.054	0.042	0.036	0.054
B (mg/L)	0.400	0.989	0.390	0.000	0.000	0.000	0.000
Cd (mg/L)	0.377	0.107	0.255	0.629	0.617	0.865	0.629
Cu (mg/L)	1.000	1.000	0.292	0.131	0.121	0.154	0.131
Cr (mg/L)	0.042	0.006	0.065	0.800	0.785	0.944	0.944
Fe (mg/L)	1.000	0.410	0.193	0.064	0.080	0.095	0.064
Pb (mg/L)	0.993	0.937	0.265	0.725	0.734	0.589	0.725
Ni (mg/L)	0.264	0.113	0.454	0.420	0.417	0.045	0.420
Mn (mg/L)	0.967	0.711	0.001	0.415	0.478	0.915	0.478
Hg (µg/L)	0.042	0.034	0.410	0.597	0.593	0.534	0.534
Zn (mg/L)	0.652	0.964	0.023	0.032	0.057	0.006	0.057

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-1 (Continued)

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT NORTH SIDE WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0:s_u=s_d$ F	$H_0:m_u=m_d$ Exact T	$H_0:m_u=m_d$ Approx T	$H_0:m_u=m_d$ Wilcox T	$H_0:m_u=m_d$ Appropriate
Se (mg/L)	0.329	0.823	0.198	0.252	0.232	0.234	0.252
Sol.Ca (mg/L)	0.398	0.539	0.146	0.011	0.008	0.014	0.011
Sol.Mg (mg/L)	0.842	0.715	0.143	0.013	0.009	0.017	0.013
Sol.Ag (mg/L)	0.292	0.197	0.494	0.694	0.693	0.714	0.694
Sol.As (mg/L)	-	-	-	-	-	-	-
Sol.Ba (mg/L)	0.995	0.931	0.073	0.065	0.049	0.030	0.065
Sol.B (mg/L)	0.622	0.834	0.457	0.000	0.000	0.000	0.000
Sol.Cu (mg/L)	0.096	0.086	0.249	0.543	0.528	0.592	0.543
Sol.Cr (mg/L)	0.880	0.950	0.242	0.233	0.252	0.208	0.233
Sol.Fe (mg/L)	0.999	1.000	0.225	0.539	0.555	0.521	0.539
Sol.Pb (mg/L)	0.643	0.914	0.369	0.052	0.048	0.093	0.052
Sol.Ni (mg/L)	0.042	0.219	0.000	0.194	0.148	0.061	0.061
Sol.Mn (mg/L)	0.920	0.594	0.011	0.809	0.829	0.271	0.829
Sol.Hg ( $\mu$ g/L)	-	-	-	-	-	-	-
Sol.Zn (mg/L)	0.712	0.939	0.494	0.000	0.000	0.001	0.000
Sol.Se (mg/L)	0.198	0.852	0.349	0.406	0.396	0.275	0.406

<sup>1</sup>Significance probability  $\leq 0.05$  means to reject  $H_0$

\*Test is for equality of geometric means

- = No test is done since standard deviation does not exist

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-2

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT STICKNEY WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0$ : $s_u=s_d$ F	$H_0$ : $m_u=m_d$ Exact T	$H_0$ : $m_u=m_d$ Approx T	$H_0$ : $m_u=m_d$ Wilcox T	$H_0$ : $m_u=m_d$ Appropriate
BOD <sub>5</sub> (mg/L)	0.552	0.945	0.089	0.292	0.294	0.362	0.292
CBOD <sub>5</sub> (mg/L)	0.032	0.296	0.420	0.418	0.418	0.402	0.402
DO (mg/L)	0.990	0.657	0.295	0.002	0.002	0.009	0.002
Temp (°C)	1.000	1.000	0.435	0.299	0.299	0.324	0.299
pH	0.977	0.950	0.345	0.755	0.755	0.977	0.755
Alk (mg/L)	0.887	0.965	0.288	0.103	0.103	0.094	0.103
Cl (mg/L)	0.803	0.990	0.043	0.986	0.986	0.470	0.986
Turb (NTU)	0.997	0.944	0.217	0.000	0.000	0.001	0.000
TKN (mg/L)	0.944	0.834	0.033	0.135	0.139	0.260	0.139
NH <sub>4</sub> -N (mg/L)	0.952	1.000	0.013	0.013	0.016	0.015	0.016
NH <sub>3</sub> -N (mg/L)	0.997	0.999	0.002	0.012	0.016	0.013	0.016
ORG-N (mg/L)	1.000	0.929	0.186	0.944	0.944	0.954	0.944
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.651	0.751	0.198	0.004	0.004	0.009	0.004
TS (mg/L)	0.936	0.940	0.129	0.741	0.741	0.371	0.741
TSS (mg/L)	0.948	0.785	0.103	0.000	0.000	0.000	0.000
VSS (mg/L)	0.705	0.817	0.397	0.060	0.060	0.039	0.060
TDS (mg/L)	0.922	0.946	0.127	0.694	0.694	0.299	0.694
Phenol (µg/L)	0.840	1.000	0.213	0.583	0.584	0.771	0.583
SO <sub>4</sub> (mg/L)	0.774	0.981	0.150	0.000	0.000	0.000	0.000
FOG (mg/L)	0.998	0.884	0.434	0.884	0.884	0.901	0.884
T.P (mg/L)	0.926	0.965	0.248	0.273	0.274	0.260	0.273
CN (mg/L)	0.092	0.457	0.066	0.052	0.054	0.064	0.052
WAD-CN (mg/L)	0.962	0.992	0.109	0.557	0.557	0.684	0.557
F (mg/L)	0.950	0.937	0.295	0.075	0.075	0.112	0.075

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-2 (Continued)

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT STICKNEY WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0:s_u=s_d$ F	$H_0:m_u=m_d$ Exact T	$H_0:m_u=m_d$ Approx T	$H_0:m_u=m_d$ Wilcox T	$H_0:m_u=m_d$ Appropriate
TOC (mg/L)	0.985	0.377	0.433	0.218	0.218	0.389	0.218
FC (cfu/100ml)*	0.999	1.000	0.034	0.000	0.000	0.000	0.000
EColi (cfu/100ml)*	1.000	1.000	0.024	0.009	0.027	0.030	0.027
Ca (mg/L)	0.872	1.000	0.154	0.676	0.677	0.285	0.676
Mg (mg/L)	0.951	1.000	0.190	0.680	0.680	0.260	0.680
Hard (mg/L)	0.925	1.000	0.166	0.675	0.675	0.260	0.675
G.Alpha (pCi/L)	0.841	0.996	0.018	0.672	0.673	0.974	0.673
G.Beta (pCi/L)	0.997	0.999	0.417	0.801	0.801	0.793	0.801
Chlrphl (µg/L)	0.744	0.347	0.001	0.049	0.056	0.037	0.056
Bzn (µg/L)	-	-	-	-	-	-	-
Ebnzn (µg/L)	-	-	-	-	-	-	-
Toln (µg/L)	-	-	-	-	-	-	-
Xyln (µg/L)	-	-	-	-	-	-	-
Ag (mg/L)	0.068	0.433	0.353	0.580	0.580	0.498	0.580
Ba (mg/L)	0.948	0.999	0.053	0.001	0.001	0.001	0.001
B (mg/L)	0.951	0.950	0.084	0.006	0.007	0.026	0.006
Cd (mg/L)	0.094	0.036	0.033	0.339	0.341	0.541	0.541
Cu (mg/L)	0.991	0.986	0.118	0.161	0.162	0.147	0.161
Cr (mg/L)	0.556	0.360	0.130	0.715	0.715	0.784	0.715
Cr <sup>+6</sup> (µg/L)	0.006	0.040	0.096	0.366	0.368	0.328	0.328
Fe (mg/L)	0.991	0.991	0.157	0.000	0.000	0.000	0.000
Pb (mg/L)	1.000	0.962	0.030	0.017	0.019	0.018	0.019
Ni (mg/L)	0.494	0.815	0.001	0.498	0.502	0.838	0.502
Mn (mg/L)	0.995	0.999	0.020	0.000	0.000	0.000	0.000

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-2 (Continued)

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT STICKNEY WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis (H <sub>0</sub> )						
	H <sub>0</sub> :Normal (U)	H <sub>0</sub> :Normal (D)	H <sub>0</sub> :s <sub>u</sub> =s <sub>d</sub> F	H <sub>0</sub> :m <sub>u</sub> =m <sub>d</sub> Exact T	H <sub>0</sub> :m <sub>u</sub> =m <sub>d</sub> Approx T	H <sub>0</sub> :m <sub>u</sub> =m <sub>d</sub> Wilcox T	H <sub>0</sub> :m <sub>u</sub> =m <sub>d</sub> Appropriate
Hg (µg/L)	0.061	0.042	0.014	0.543	0.545	0.939	0.939
Zn (mg/L)	1.000	0.898	0.007	0.616	0.618	0.862	0.618
Se (mg/L)	0.253	0.681	0.273	0.914	0.914	0.643	0.914
Sol.Ca (mg/L)	0.787	0.931	0.254	0.605	0.605	0.470	0.605
Sol.Mg (mg/L)	0.999	1.000	0.201	0.592	0.592	0.403	0.592
Sol.Ag (mg/L)	0.112	0.100	0.117	0.569	0.570	0.783	0.569
Sol.As (mg/L)	-	-	-	-	-	-	-
Sol.Ba (mg/L)	0.965	0.995	0.082	0.109	0.111	0.214	0.109
Sol.B (mg/L)	0.963	0.919	0.063	0.003	0.004	0.012	0.003
Sol.Cu (mg/L)	0.675	0.013	0.007	0.081	0.087	0.067	0.067
Sol.Cr (mg/L)	0.821	1.000	0.003	0.020	0.024	0.036	0.024
Sol.Fe (mg/L)	1.000	0.996	0.303	0.222	0.222	0.183	0.222
Sol.Pb (mg/L)	0.811	0.742	0.430	0.732	0.732	0.790	0.732
Sol.Ni (mg/L)	0.674	0.838	0.047	0.494	0.495	0.141	0.495
Sol.Mn (mg/L)	1.000	0.989	0.024	0.016	0.019	0.035	0.019
Sol.Hg (µg/L)	-	-	-	-	-	-	-
Sol.Zn (mg/L)	0.640	0.799	0.144	0.423	0.424	0.194	0.423
Sol.Se (mg/L)	0.277	0.653	0.100	0.541	0.542	0.925	0.541

<sup>1</sup>Significance probability ≤0.05 means to reject H<sub>0</sub>

\*Test is for equality of geometric means

- = No test is done since standard deviation does not exist

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-3

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT CALUMET WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0$ : $s_u=s_d$ F	$H_0$ : $m_u=m_d$ Exact T	$H_0$ : $m_u=m_d$ Approx T	$H_0$ : $m_u=m_d$ Wilcox T	$H_0$ : $m_u=m_d$ Appropriate
BOD <sub>5</sub> (mg/L)	0.720	0.450	0.348	0.751	0.751	0.699	0.751
CBOD <sub>5</sub> (mg/L)	0.141	0.133	0.158	0.624	0.624	0.730	0.624
DO (mg/L)	0.995	0.688	0.042	0.042	0.046	0.020	0.046
Temp (°C)	0.542	0.959	0.455	0.894	0.894	0.896	0.894
pH	1.000	0.886	0.129	0.006	0.007	0.012	0.006
Alk (mg/L)	1.000	0.995	0.433	0.049	0.049	0.049	0.049
Cl (mg/L)	0.991	0.953	0.449	0.042	0.042	0.066	0.042
Turb (NTU)	0.997	0.941	0.001	0.000	0.000	0.000	0.000
TKN (mg/L)	0.864	1.000	0.419	0.536	0.538	0.504	0.536
NH <sub>4</sub> -N (mg/L)	0.974	0.986	0.016	0.609	0.611	1.000	0.611
NH <sub>3</sub> -N (mg/L)	0.989	1.000	0.036	0.028	0.031	0.042	0.031
ORG-N (mg/L)	1.000	1.000	0.475	0.243	0.243	0.245	0.243
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.974	0.954	0.458	0.002	0.002	0.003	0.002
TS (mg/L)	0.993	0.912	0.363	0.013	0.013	0.015	0.013
TSS (mg/L)	0.875	1.000	0.000	0.000	0.001	0.000	0.001
VSS (mg/L)	1.000	0.769	0.100	0.013	0.014	0.018	0.013
TDS (mg/L)	0.900	0.955	0.424	0.005	0.005	0.007	0.005
Phenol (µg/L)	0.767	0.937	0.034	0.008	0.010	0.018	0.010
SO <sub>4</sub> (mg/L)	0.854	1.000	0.256	0.020	0.020	0.036	0.020
FOG (mg/L)	0.966	0.957	0.422	0.508	0.508	0.448	0.508
T.P (mg/L)	0.465	0.910	0.288	0.001	0.001	0.001	0.001
CN (mg/L)	0.621	0.910	0.129	0.001	0.001	0.004	0.001
WAD-CN (mg/L)	1.000	1.000	0.479	0.001	0.001	0.005	0.001
F (mg/L)	0.999	0.988	0.262	0.007	0.007	0.009	0.007

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-3 (Continued)

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT CALUMET WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0$ : $s_u=s_d$ F	$H_0$ : $m_u=m_d$ Exact T	$H_0$ : $m_u=m_d$ Approx T	$H_0$ : $m_u=m_d$ Wilcox T	$H_0$ : $m_u=m_d$ Appropriate
TOC (mg/L)	0.872	1.000	0.193	0.003	0.003	0.006	0.003
FC (cfu/100ml)*	0.997	1.000	0.050	0.000	0.000	0.000	0.000
EColi (cfu/100ml)*	0.999	1.000	0.108	0.057	0.130	0.208	0.057
Ca (mg/L)	0.989	1.000	0.442	0.025	0.025	0.036	0.025
Mg (mg/L)	1.000	0.999	0.193	0.201	0.202	0.237	0.201
Hard (mg/L)	1.000	1.000	0.403	0.059	0.059	0.066	0.059
G.Alpha (pCi/L)	0.998	1.000	0.372	0.373	0.369	0.268	0.373
G.Beta (pCi/L)	0.999	1.000	0.349	0.128	0.125	0.194	0.128
Chlrphl (µg/L)	0.768	0.827	0.473	0.002	0.002	0.005	0.002
Bznz (µg/L)	-	-	-	-	-	-	-
Ebnzn (µg/L)	-	-	-	-	-	-	-
Toln (µg/L)	-	-	-	-	-	-	-
Xyln (µg/L)	-	-	-	-	-	-	-
Ag (mg/L)	0.089	0.234	0.337	0.914	0.914	0.721	0.914
Ba (mg/L)	0.970	0.991	0.396	0.000	0.000	0.000	0.000
B (mg/L)	1.000	0.959	0.114	0.006	0.007	0.010	0.006
Cd (mg/L)	0.040	0.218	0.021	0.241	0.245	0.315	0.315
Cu (mg/L)	1.000	0.629	0.175	0.331	0.332	0.306	0.331
Cr (mg/L)	0.167	0.153	0.388	0.921	0.921	1.000	0.921
Fe (mg/L)	0.941	0.725	0.000	0.001	0.003	0.000	0.003
Pb (mg/L)	0.577	0.996	0.200	0.236	0.237	0.424	0.236
Ni (mg/L)	0.973	0.994	0.157	0.110	0.111	0.168	0.110
Mn (mg/L)	0.992	0.910	0.107	0.806	0.807	0.948	0.806
Hg (µg/L)	0.074	0.037	0.002	0.233	0.241	0.474	0.474



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-3 (Continued)

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT CALUMET WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0:s_u=s_d$ F	$H_0:m_u=m_d$ Exact T	$H_0:m_u=m_d$ Approx T	$H_0:m_d=m_d$ Wilcox T	$H_0:m_u=m_d$ Appropriate
Zn (mg/L)	0.608	1.000	0.499	0.076	0.076	0.049	0.076
Se (mg/L)	0.301	0.314	0.026	0.338	0.342	0.580	0.342
Sol.Ca (mg/L)	1.000	1.000	0.497	0.014	0.014	0.026	0.014
Sol.Mg (mg/L)	1.000	0.946	0.243	0.151	0.152	0.131	0.151
Sol.Ag (mg/L)	0.444	0.959	0.311	0.421	0.421	0.322	0.421
Sol.As (mg/L)	-	-	-	-	-	-	-
Sol.Ba (mg/L)	0.326	0.995	0.001	0.023	0.031	0.005	0.031
Sol.B (mg/L)	1.000	0.999	0.191	0.002	0.002	0.004	0.002
Sol.Cu (mg/L)	0.137	0.012	0.024	0.124	0.129	0.138	0.138
Sol.Cr (mg/L)	0.997	0.994	0.315	0.163	0.164	0.147	0.163
Sol.Fe (mg/L)	0.471	0.989	0.205	0.018	0.019	0.032	0.018
Sol.Pb (mg/L)	0.233	0.984	0.416	0.382	0.383	0.293	0.382
Sol.Ni (mg/L)	0.028	0.579	0.328	0.174	0.174	0.137	0.137
Sol.Mn (mg/L)	0.306	0.789	0.188	0.004	0.005	0.003	0.004
Sol.Hg ( $\mu$ g/L)	-	-	-	-	-	-	-
Sol.Zn (mg/L)	0.375	0.817	0.140	0.007	0.008	0.003	0.007
Sol.Se (mg/L)	0.114	0.227	0.183	0.519	0.519	0.578	0.519

<sup>1</sup>Significance probability  $\leq 0.05$  means to reject  $H_0$

\*Test is for equality of geometric means

- = No test is done since standard deviation does not exist

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-4

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT JOHN E. EGAN WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0:s_u=s_d$ F	$H_0:m_u=m_d$ Exact T	$H_0:m_u=m_d$ Approx T	$H_0:m_u=m_d$ Wilcox T	$H_0:m_u=m_d$ Appropriate
DO (mg/L)	0.994	0.934	0.016	0.685	0.714	0.887	0.714
Temp ( $^{\circ}$ C)	0.999	0.996	0.424	0.938	0.939	1.000	0.938
pH	0.932	0.941	0.146	0.212	0.240	0.106	0.212
Alk (mg/L)	1.000	0.984	0.008	0.619	0.657	0.594	0.657
Cl (mg/L)	0.945	0.813	0.471	0.920	0.920	0.972	0.920
Turb (NTU)	0.647	0.998	0.000	0.001	0.006	0.000	0.006
TKN (mg/L)	1.000	0.752	0.094	0.211	0.183	0.286	0.211
NH <sub>4</sub> -N (mg/L)	0.979	0.272	0.000	0.214	0.164	0.224	0.164
NH <sub>3</sub> -N (mg/L)	0.818	0.170	0.002	0.397	0.345	1.000	0.345
ORG-N (mg/L)	1.000	0.903	0.088	0.424	0.457	0.337	0.424
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	0.823	0.932	0.000	0.002	0.001	0.000	0.001
TS (mg/L)	0.906	1.000	0.451	0.760	0.758	0.859	0.760
TSS (mg/L)	0.833	0.951	0.000	0.000	0.005	0.001	0.005
VSS (mg/L)	0.948	0.881	0.019	0.008	0.020	0.007	0.020
TDS (mg/L)	0.994	1.000	0.471	0.977	0.977	0.859	0.977
Phenol ( $\mu$ g/L)	0.896	0.665	0.026	0.064	0.098	0.248	0.098
SO <sub>4</sub> (mg/L)	0.996	0.986	0.004	0.591	0.634	0.166	0.634
T.P (mg/L)	0.987	0.995	0.000	0.003	0.002	0.000	0.002
CN (mg/L)	0.992	0.772	0.235	0.209	0.228	0.222	0.209
WAD-CN (mg/L)	0.735	0.627	0.024	0.016	0.010	0.009	0.010
F (mg/L)	0.999	0.999	0.000	0.001	0.001	0.001	0.001
TOC (mg/L)	0.460	0.348	0.294	0.565	0.554	0.500	0.565
FC (cfu/100ml)*	0.998	1.000	0.335	0.857	0.860	0.887	0.857
EColi (cfu/100ml)*	0.900	0.983	0.466	0.780	0.779	1.000	0.780

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-4 (Continued)

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT JOHN E. EGAN WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0:s_u=s_d$ F	$H_0:m_u=m_d$ Exact T	$H_0:m_u=m_d$ Approx T	$H_0:m_u=m_d$ Wilcox T	$H_0:m_u=m_d$ Appropriate
Ca (mg/L)	1.000	0.698	0.031	0.716	0.740	0.749	0.740
Mg (mg/L)	1.000	0.941	0.012	0.957	0.961	0.749	0.961
Hard (mg/L)	1.000	0.564	0.021	0.808	0.826	0.749	0.826
G.Alpha (pCi/L)	0.843	0.318	0.205	0.542	0.559	1.000	0.542
G.Beta (pCi/L)	0.991	1.000	0.286	0.297	0.283	0.374	0.297
Chlrphl (µg/L)	0.810	0.999	0.002	0.081	0.132	0.189	0.132
Bnzn (µg/L)	-	-	-	-	-	-	-
Ebnzn (µg/L)	-	-	-	-	-	-	-
Toln (µg/L)	-	-	-	-	-	-	-
Xyln (µg/L)	-	-	-	-	-	-	-
Ag (mg/L)	0.226	0.042	0.217	0.950	0.948	0.859	0.859
Ba (mg/L)	0.986	0.836	0.345	0.019	0.017	0.009	0.019
B (mg/L)	1.000	0.999	0.000	0.001	0.000	0.002	0.000
Cd (mg/L)	0.102	0.014	0.302	0.770	0.776	0.796	0.796
Cu (mg/L)	1.000	0.690	0.406	0.492	0.486	0.642	0.492
Cr (mg/L)	0.848	0.006	0.000	0.001	0.007	0.004	0.004
Cr <sup>+6</sup> (µg/L)	0.263	0.043	0.357	0.723	0.728	0.721	0.721
Fe (mg/L)	0.844	0.999	0.000	0.000	0.003	0.000	0.003
Pb (mg/L)	1.000	1.000	0.396	0.411	0.418	0.430	0.411
Ni (mg/L)	0.983	0.380	0.296	0.819	0.814	0.795	0.819
Mn (mg/L)	0.998	0.998	0.074	0.009	0.018	0.012	0.009
Hg (µg/L)	0.554	0.088	0.012	0.819	0.801	0.498	0.801
Zn (mg/L)	1.000	0.891	0.223	0.286	0.306	0.239	0.286
Se (mg/L)	0.271	0.430	0.072	0.223	0.192	0.305	0.223

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-4 (Continued)

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT JOHN E. EGAN WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0$ : $s_u=s_d$ F	$H_0$ : $m_u=m_d$ Exact T	$H_0$ : $m_u=m_d$ Approx T	$H_0$ : $m_u=m_d$ Wilcox T	$H_0$ : $m_u=m_d$ Appropriate
Sol.Ca (mg/L)	0.999	0.998	0.023	0.587	0.623	0.456	0.623
Sol.Mg (mg/L)	1.000	1.000	0.011	0.826	0.843	0.915	0.843
Sol.Ag (mg/L)	0.042	0.197	0.473	0.380	0.382	0.229	0.229
Sol.As (mg/L)	-	-	-	-	-	-	-
Sol.Ba (mg/L)	0.996	0.930	0.384	0.073	0.069	0.047	0.073
Sol.B (mg/L)	0.989	0.988	0.000	0.002	0.001	0.004	0.001
Sol.Cd (mg/L)	0.042	0.013	0.406	0.877	0.878	0.861	0.861
Sol.Cu (mg/L)	0.484	0.916	0.346	0.286	0.277	0.280	0.286
Sol.Cr (mg/L)	0.951	0.661	0.391	0.803	0.806	1.000	0.803
Sol.Fe (mg/L)	0.449	0.999	0.000	0.336	0.411	0.915	0.411
Sol.Pb (mg/L)	0.790	0.892	0.232	0.267	0.249	0.365	0.267
Sol.Mn (mg/L)	0.989	1.000	0.067	0.681	0.703	0.859	0.681
Sol.Hg ( $\mu$ g/L)	-	-	-	-	-	-	-
Sol.Zn (mg/L)	0.998	1.000	0.000	0.004	0.003	0.008	0.003
Sol.Se (mg/L)	0.210	0.108	0.025	0.455	0.414	0.799	0.414

<sup>1</sup>Significance probability  $\leq 0.05$  means to reject  $H_0$

\*Test is for equality of geometric means

- = No test is done since standard deviation does not exist

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-5

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT JAMES C. KIRIE WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0:s_u=s_d$ F	$H_0:m_u=m_d$ Exact T	$H_0:m_u=m_d$ Approx T	$H_0:m_u=m_d$ Wilcox T	$H_0:m_u=m_d$ Appropriate
DO (mg/L)	0.998	1.000	0.109	0.351	0.458	0.246	0.351
Temp ( $^{\circ}$ C)	1.000	0.987	0.114	0.990	0.992	0.874	0.990
pH	1.000	0.435	0.479	0.620	0.614	0.867	0.620
Alk (mg/L)	1.000	1.000	0.190	0.003	0.001	0.010	0.003
Cl (mg/L)	0.932	0.130	0.000	0.175	0.395	0.635	0.395
Turb (NTU)	1.000	0.670	0.025	0.000	0.014	0.004	0.014
TKN (mg/L)	0.965	0.980	0.263	0.744	0.771	0.370	0.744
NH <sub>4</sub> -N (mg/L)	1.000	0.976	0.430	0.321	0.341	0.291	0.321
NH <sub>3</sub> -N (mg/L)	0.956	0.591	0.197	0.382	0.299	0.225	0.382
ORG-N (mg/L)	0.932	0.783	0.478	0.982	0.981	0.874	0.982
NO <sub>2</sub> +NO <sub>3</sub> (mg/L)	1.000	0.995	0.000	0.001	0.000	0.007	0.000
TS (mg/L)	0.906	0.481	0.001	0.335	0.536	0.874	0.536
TSS (mg/L)	1.000	0.703	0.001	0.001	0.039	0.004	0.039
VSS (mg/L)	1.000	0.981	0.130	0.003	0.029	0.009	0.003
TDS (mg/L)	0.900	0.503	0.001	0.404	0.591	0.874	0.591
Phenol ( $\mu$ g/L)	0.999	1.000	0.266	0.295	0.358	0.245	0.295
SO <sub>4</sub> (mg/L)	1.000	0.951	0.005	0.001	0.000	0.007	0.000
T.P (mg/L)	0.772	0.714	0.282	0.354	0.298	0.246	0.354
CN (mg/L)	0.798	0.947	0.017	0.533	0.658	0.165	0.658
WAD-CN (mg/L)	0.951	0.701	0.203	0.216	0.298	0.223	0.216
F (mg/L)	1.000	1.000	0.003	0.003	0.000	0.010	0.000
TOC (mg/L)	0.999	0.960	0.079	0.910	0.929	0.747	0.910
FC (cfu/100ml)*	1.000	0.780	0.021	0.021	0.002	0.007	0.002
EColi (cfu/100ml)*	0.999	0.945	0.020	0.015	0.001	0.011	0.001

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-5 (Continued)

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT JAMES C. KIRIE WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0:s_u=s_d$ F	$H_0:m_u=m_d$ Exact T	$H_0:m_u=m_d$ Approx T	$H_0:m_u=m_d$ Wilcox T	$H_0:m_u=m_d$ Appropriate
Ca (mg/L)	0.998	0.983	0.280	0.087	0.139	0.102	0.087
Mg (mg/L)	1.000	0.796	0.216	0.031	0.016	0.031	0.031
Hard (mg/L)	1.000	0.994	0.537	0.057	0.073	0.082	0.057
G.Alpha (pCi/L)	0.926	0.993	0.001	0.430	0.612	0.673	0.612
G.Beta (pCi/L)	1.000	1.000	0.084	0.213	0.108	0.268	0.213
Chlrphl ( $\mu$ g/L)	1.000	0.605	0.551	0.004	0.011	0.010	0.004
Bznz ( $\mu$ g/L)	-	-	-	-	-	-	-
Ebnzn ( $\mu$ g/L)	-	-	-	-	-	-	-
Toln ( $\mu$ g/L)	-	-	-	-	-	-	-
Xyln ( $\mu$ g/L)	-	-	-	-	-	-	-
Ag (mg/L)	0.491	0.013	0.301	0.862	0.874	0.874	0.874
Ba (mg/L)	0.999	0.983	0.005	0.000	0.022	0.004	0.022
B (mg/L)	0.975	1.000	0.001	0.002	0.000	0.010	0.000
Cd (mg/L)	0.942	0.074	0.095	0.580	0.662	0.853	0.580
Cu (mg/L)	0.998	0.992	0.163	0.125	0.067	0.123	0.125
Cr (mg/L)	0.999	0.372	0.358	0.332	0.369	0.222	0.332
Cr <sup>+6</sup> ( $\mu$ g/L)	0.491	0.036	0.019	0.418	0.248	0.723	0.723
Fe (mg/L)	1.000	0.605	0.001	0.000	0.014	0.003	0.014
Pb (mg/L)	1.000	0.956	0.187	0.029	0.012	0.038	0.029
Ni (mg/L)	1.000	0.785	0.014	0.305	0.142	0.593	0.142
Mn (mg/L)	1.000	0.885	0.004	0.000	0.027	0.004	0.027
Hg ( $\mu$ g/L)	0.969	0.031	0.305	0.808	0.825	0.601	0.601
Zn (mg/L)	0.891	0.924	0.261	0.346	0.284	0.370	0.346
Se (mg/L)	1.000	0.500	0.195	0.890	0.868	0.780	0.890

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE AIII-5 (Continued)

SIGNIFICANCE PROBABILITIES DUE TO OR ASSOCIATED WITH TESTING FOR EQUALITY OF MEAN CONCENTRATIONS OF WATER QUALITY PARAMETERS OF UPSTREAM (U) AND DOWNSTREAM (D) LOCATIONS AT JAMES C. KIRIE WATER RECLAMATION PLANT IN 2003

Parameter (Unit)	<sup>1</sup> Significance Probabilities for Testing Null Hypothesis ( $H_0$ )						
	$H_0$ :Normal (U)	$H_0$ :Normal (D)	$H_0:s_u=s_d$ F	$H_0:m_u=m_d$ Exact T	$H_0:m_u=m_d$ Approx T	$H_0:m_u=m_d$ Wilcox T	$H_0:m_u=m_d$ Appropriate
Sol.Ca (mg/L)	1.000	0.995	0.128	0.110	0.207	0.126	0.110
Sol.Mg (mg/L)	1.000	1.000	0.428	0.029	0.031	0.051	0.029
Sol.Ag (mg/L)	1.000	0.399	0.134	0.422	0.514	0.577	0.422
Sol.As (mg/L)	-	-	-	-	-	-	-
Sol.Ba (mg/L)	0.958	1.000	0.008	0.006	0.074	0.013	0.074
Sol.B (mg/L)	1.000	0.999	0.001	0.006	0.000	0.040	0.000
Sol.Cd (mg/L)	0.491	0.016	0.078	0.599	0.682	0.812	0.812
Sol.Cu (mg/L)	1.000	0.280	0.247	0.337	0.271	0.139	0.337
Sol.Cr (mg/L)	1.000	0.989	0.424	0.760	0.749	0.633	0.760
Sol.Fe (mg/L)	1.000	1.000	0.046	0.076	0.198	0.187	0.198
Sol.Pb (mg/L)	0.998	0.903	0.179	0.775	0.808	0.957	0.775
Sol.Ni (mg/L)	0.867	0.693	0.004	0.179	0.052	0.262	0.052
Sol.Mn (mg/L)	0.966	0.912	0.000	0.020	0.175	0.023	0.175
Sol.Hg (µg/L)	-	-	-	-	-	-	-
Sol.Zn (mg/L)	1.000	0.993	0.071	0.096	0.031	0.114	0.096
Sol.Se (mg/L)	1.000	0.734	0.255	0.574	0.518	0.749	0.574

<sup>1</sup>Significance probability  $\leq 0.05$  means to reject  $H_0$

\*Test is for equality of geometric means

- = No test is done since standard deviation does not exist