Protecting Our Water Environment

Metropolitan Water Reclamation District of Greater Chicago

RESEARCH AND DEVELOPMENT DEPARTMENT

REPORT NO. 04-18

CONTINUOUS DISSOLVED OXYGEN MONITORING

IN THE CHICAGO WATERWAY SYSTEM

DURING 2001 AND 2002

October 2004

Metropolitan Water Reclamation District of Greater Chicago

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CONTINUOUS DISSOLVED OXYGEN MONITORING IN THE CHICAGO WATERWAY SYSTEM DURING 2001 AND 2002

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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

Summary

More than 30 years ago, the Metropolitan Water Reclamation District of Greater Chicago (District) determined that applicable dissolved oxygen (DO) standards for deep draft navigable waterways in the Chicago area could not be maintained exclusively by improving the effluent quality from the three major District Water Reclamation Plants (WRPs) and by capturing and treating combined sewer overflows (CSOs).

In order to provide supplemental aeration, the District constructed and operated two diffused instream aeration stations and five sidestream elevated pool aeration (SEPA) stations in Chicago area waterways.

In August 1996, the District began planning a comprehensive DO monitoring study to identify reaches in the Chicago Waterway System where the DO concentration is less than the applicable Illinois Pollution Control Board (IPCB) water quality standards.

Initially, 20 stations were selected for monitoring from Wilmette, Illinois, on the North Shore Channel to the Lockport Powerhouse and Lock on the Chicago Sanitary and Ship Canal, using continuous water quality monitors, Models 6600 and 6920 manufactured by Yellow Springs, Incorporated, (YSI), Yellow Springs, Ohio. This monitoring was extended further downstream to Jefferson Street in Joliet, Illinois, on the Des Plaines River beginning in March 2000. Additional stations were added to the DO monitoring network in August 2001 in order to monitor the Calumet River System.

The present report includes hourly DO values at 20 stations from Wilmette to Lockport in the Chicago River System, and one station in Joliet in the Des Plaines River System, for a 12-month period (January 2002 through December 2002) and at 13 stations in the Calumet River System for an 18-month period (August 2001 through December 2002).

Conclusions

Chicago and Des Plaines River Systems. The results of the continuous DO monitoring conducted in the Chicago and Des Plaines River Systems during the period from January 2002 through December 2002 indicated the following.

- 1. DO supersaturation occurred at times at Main Street on the North Shore Channel.
- Hourly DO concentrations of zero were recorded numerous times at Linden Street, Simpson Street, and Main Street on the North Shore Channel and 36th Street and Interstate 55 on Bubbly Creek.
- 3. None of the 20 monitoring stations recorded DO concentrations above the applicable IPCB standards at all times. However, four monitoring stations were above the applicable IPCB DO standard at least 99 percent of the time. The four stations were Addison Street on the North Branch of the Chicago River and the Chicago River Controlling Works, Michigan Avenue and Clark Street on the Chicago River.
- 4. Monitoring stations where the DO concentration was above the DO standard 90 to 98 percent of the time included Fullerton Avenue, Division Street, and Kinzie Street on the North Branch of the Chicago River, Jackson Boulevard on the South Branch of the Chicago River,

B&O Central Railroad, River Mile 302.6 and Lockport Powerhouse on the Chicago Sanitary and Ship Canal, and Jefferson Street on the Des Plaines River.

- 5. Monitoring stations recording DO levels above the applicable IPCB DO standards 50 to 89 percent of the time included Linden Street and Main Street on the North Shore Channel, 36th Street and Interstate 55 on Bubbly Creek, and Cicero Avenue, Route 83, and Romeoville Road on the Chicago Sanitary and Ship Canal.
- 6. The DO concentration at Simpson Street on the North Shore Channel was above the DO standard less than 50 percent of the time.
- 7. Based upon the results of this study, it appears that the North Shore Channel upstream of the North Side WRP and Bubbly Creek are the main areas, of those monitored, that are experiencing problems maintaining DO above the applicable DO standard.

Calumet River System. The results of the continuous DO monitoring conducted in the Calumet River System during the period from August 2001 through December 2002 indicated the following.

- 1. DO supersaturation occurred at times at Torrence Avenue on the Grand Calumet River and at Ashland Avenue on the Little Calumet River.
- 2. Only one station (130th Street on the Calumet River) of the 13 monitoring stations recorded DO concentrations above the applicable IPCB standards at all times. However, six monitoring stations were above the applicable IPCB

DO standard at least 99 percent of the time. The six stations were Conrail Railroad on the Little Calumet River, Division Street, Kedzie Avenue, Cicero Avenue, River Mile 311.7, and Southwest Highway on the Calumet-Sag Channel.

- Monitoring stations where the DO concentration was above the DO standard 90 to 98 percent of the time included C&W Indiana Railroad and Halsted Street on the Little Calumet River and 104th Avenue and Route 83 on the Calumet-Sag Channel.
- Monitoring stations recording DO levels above the applicable IPCB DO standards 50 to 89 percent of the time included Torrence Avenue on the Grand Calumet River and Ashland Avenue on the Little Calumet River.
- 5. Based upon the results of this study, it appears that the Grand Calumet River at Torrence Avenue and the Little Calumet River at Ashland Avenue are experiencing problems maintaining DO above the applicable DO standard.

The database resulting from the operation of the continuous DO monitors has been found to be an important source of information for determining the oxygen levels in a complex, urbanized waterway system. This information will be useful in the future for determining the need and location for additional supplemental aeration capacity, understanding the temporal and transient impacts of CSOs, assessing the effects of reduced discretionary diversion from Lake Michigan, and calibration and verification of an unsteady-state water quality model for the Chicago, Calumet and Des Plaines River Systems. The Chicago Waterway System (CWS) consists of 78 miles of canals, which serve the Chicago area for two principal purposes, the drainage of urban storm water runoff and treated municipal wastewater effluent and the support of commercial navigation. Approximately 75 percent of the length is composed of man-made canals where no waterway existed previously and the remainder is composed of natural streams that have been deepened, straightened and/or widened to such an extent that reversion to the natural state is not possible. The flow of water in the CWS is artificially controlled by hydraulic structures. The CWS has two river systems, the Calumet River System and the Chicago River System (Lanyon, 2002).

Over the years, increased pollutant loading from urbanization throughout the Chicago metropolitan area and low stream velocities in Chicago area deep-draft waterways have caused DO concentrations to fall below DO standards established by the IPCB. More than 30 years ago, the District determined that applicable IPCB DO standards for Chicago area waterways could not be met exclusively by advanced wastewater treatment at its three major regional WRPs (Calumet, North Side, and Stickney) and by the capture and treatment of CSOs. In order to increase the DO concentration in the Chicago and Calumet River Systems, the District designed and constructed artificial aeration systems [instream aeration and sidestream elevated pool aeration (SEPA)] during the late 1970s and early 1990s, respectively.

From October 1994 through May 1996, the Research and Development (R&D) Department conducted weekly DO surveys in the Chicago River System. Water samples were collected manually, chemically fixed in the field, and returned to the laboratory for titration. The results from these surveys showed that DO values in selected waterway reaches were less than IPCB DO standards applicable to these reaches.

In August 1996, the R&D Department began developing a comprehensive field-monitoring program in order to locate and identify reaches in the Chicago River System where the DO concentration is less than the applicable IPCB DO standard. Initially, the program was to focus on the Chicago River System for a two-year period. Subsequently, the scope of the monitoring program was extended to four years, and the study area was expanded to include the Calumet River System for the latter two years.

Monitoring results for the CWS have been summarized by Polls (2000) from August 1998 through July 2000 and by Dennison *et al.* (2004) from August 2000 through December 2001. This report covers the monitoring results for the period from January 2002 through December 2002 for the Chicago River System and from August 2001 through January 2002 for the Calumet River System. Monitoring data for 19 stations on the Chicago River System, 13 stations on the Calumet River System, and 1 station on the Des Plaines River System are presented in this report (Figure 1). Chicago River System stations include: three stations on the North Shore Channel, four on the North Branch of the Chicago River, three on the Chicago River, one on the South Branch of the Chicago River, two on Bubbly Creek, and six on the Chicago Sanitary and Ship Canal. The Des Plaines River System station is on the Des Plaines River in Joliet. Calumet River System stations include one station on the Calumet River, one station on the Grand Calumet River, four stations on the Little Calumet River, and seven stations on the Calumet-Sag Channel. <u>Table 1</u> describes the locations of all the monitoring stations.

Criteria used to select monitoring stations included the following: (1) history of low DO; (2) above and below confluence of waterways; (3) proximity to instream aeration stations or SEPA stations; (4) below North Branch and Racine Avenue wastewater pumping stations; (5) above and below the North Side, Stickney, and Calumet WRPs (6) below discretionary diversion locations; and (7) minimal cross-sectional DO variability.

FIGURE 1: CONTINUOUS DISSOLVED OXYGEN MONITORING STATIONS IN THE CHICAGO WATERWAY SYSTEM



Monitoring Station	Waterway	Location of Monitoring Station
	Chica	ago River System
Linden Street	North Shore Channel	0.1 mile below Wilmette Pumping Station; 7.1 miles above North Side WRP outfall; water quality monitor under Linden Street bridge, center of channel, one foot above bottom.
Simpson Street	North Shore Channel	1.6 miles below Wilmette Pumping Station; 5.6 miles above North Side WRP outfall; water quality monitor under Simpson Street bridge, center of channel, one foot above bottom.
Main Street	North Shore Channel	4.1 miles below Wilmette Pumping Station; 3.1 miles above North Side WRP outfall; water quality monitor under Main Street bridge, center of channel, one foot above bottom.
Addison Street	North Branch Chicago River	5.2 miles below North Side WRP outfall; water quality monitor on northwest side Addison Street bridge, three feet below water surface.
Fullerton Avenue	North Branch Chicago River	7.2 miles below North Side WRP outfall; 0.4 miles above Webster Aeration Station; water quality monitor on northwest side Fullerton Avenue bridge, three feet below water surface.
Division Street	North Branch Chicago River	8.8 miles below North Side WRP outfall; 1.4 miles below Webster Aeration Station; water quality monitor on northeast side Division Street bridge, three feet below water surface.
Kinzie Street	North Branch Chicago River	9.9 miles below North Side WRP outfall; 0.1 mile above junction with Chicago River; water quality monitor on northeast side Kinzie Street bridge, three feet below water surface.
Chicago River Controlling Works	Chicago River	0.1 miles below Chicago River Controlling Works; 1.5 miles above junction with South Branch Chicago River; water quality monitor on south guidewall of lock, three feet below water surface.

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TABLE 1: CONTINUOUS DISSOLVED OXYGEN MONITORING STATIONS

Monitoring Station	Waterways	Location of Monitoring Station
	Chicago River	System (Continued)
Michigan Avenue	Chicago River	0.8 miles below Chicago River Controlling Works; 0.8 miles above junction with South Branch Chicago River; water quality monitor on northeast side Michigan Avenue bridge, three feet below water surface.
Clark Street	Chicago River	1.2 miles below Chicago River Controlling Works; 0.4 miles above junction with South Branch Chicago River; water quality monitor on southeast side Clark Street bridge, three feet below water surface.
Jackson Boulevard	South Branch Chicago River	1.0 mile below junction with Chicago River; water quality monitor on northeast side Jackson Boulevard bridge, three feet below water surface.
36 th Street	Bubbly Creek	0.2 mile below Racine Avenue Pumping Station, 1.2 miles above junction with South Branch of the Chicago River, water quality monitor attached to concrete wall on west side of river, three feet below water surface.
Interstate 55	Bubbly Creek	1.0 mile below Racine Avenue Pumping Station; 0.4 miles above junction with South Branch of the Chicago River; water quality monitor on northeast side I-55 bridge, three feet below water surface.
Cicero Avenue	Chicago Sanitary & Ship Canal	1.9 miles above Stickney WRP outfall; 1.0 mile below Crawford Generating Canal Station cooling water discharge; water quality monitor on northeast side Cicero Avenue bridge, three feet below water surface.
B&O Central RR	Chicago Sanitary & Ship Canal	6.8 miles below Stickney WRP outfall; water quality monitor in center of canal, east side B&O Central RR bridge, three feet below water surface.
Route 83	Chicago Sanitary & Ship Canal	1.0 mile above junction with Calumet-Sag Channel; 0.8 miles above Canal Junction SEPA Station; water quality monitor 0.3 miles above Route 83 bridge, center of canal, one foot above bottom.

TABLE 1 (Continued): CONTINUOUS DISSOLVED OXYGEN MONITORING STATIONS

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Monitoring Station	Waterways	Location of Monitoring Station		
	<u>Chicago Ri</u>	ver System (Continued)		
Mile 302.6	Chicago Sanitary & Ship Canal	1.2 miles below junction with Calumet-Sag Channel; 1.3 miles below Canal Junction SEPA Station; water quality monitor in center of canal, one foot above bottom.		
Romeoville Road	Chicago Sanitary & Ship Canal	7.1 miles below junction with Calumet-Sag Channel; 5.1 miles above Lockport Lock; water quality monitor on southeast side Romeoville Road bridge, three feet below water surface.		
Lockport	Chicago Sanitary & Ship Canal	0.1 mile above Lockport Powerhouse; 1.1 miles above junction with Des Plaines River; water quality monitor on north side of canal, in forebay area on fender wall, three feet below water surface.		
	Des Pla	aines River System		
Jefferson Street	Des Plaines River	3.0 miles below Lockport Lock, 2.1 miles below junction with Des Plaines River; water quality monitor on southeast side Jefferson Street bridge, three feet below water surface.		
	Calur	net River System		
130 th Street	Calumet River	6.3 miles below junction with Lake Michigan, 0.7 mile upstream of Thomas S. O'Brien Lock and Dam, water quality monitor at downstream end of LaFarge Corporation Chicago Terminal dock, three feet below water surface.		
Torrence Avenue	Grand Calumet River	150 feet above junction with Calumet River, 100 feet below Torrence Avenue bridge, water quality monitor attached to bridge abutment on southeast side of river, two feet below water surface.		

TABLE 1 (Continued): CONTINUOUS DISSOLVED OXYGEN MONITORING STATIONS

Monitoring Station	Waterways	Location of Monitoring Station
	Calume	et River System (Continued)
Conrail RR	Little Calumet River	0.4 mile below junction with Grand Calumet River, 1.0 mile below Thomas S. O'Brien Lock and Dam, water quality monitor on northeast side Conrail RR bridge, three feet below water surface.
C&W Indiana RR	Little Calumet River	3.6 miles below Thomas J. O'Brien Lock and Dam, 1.3 miles above Calumet WRP outfall, water quality monitor attached to northeast side C&W Indiana RR bridge, three feet below water surface.
Halsted Street	Little Calumet River	1.2 miles below Calumet WRP, 0.5 mile above junction with Calumet-Sag Channel, water quality monitor attached to southeast side Halsted Street bridge, three feet below water surface.
Ashland Avenue	Little Calumet River	0.5 mile above junction with Calumet-Sag Channel, water quality monitor attached to east side Ashland Avenue bridge, two feet below water surface.
Division Street	Calumet-Sag Channel	1.0 mile below junction with Little Calumet River, 0.4 mile above SEPA 3, water quality monitor attached to southwest side Division Street bridge, three feet below water surface.
Kedzie Avenue	Calumet-Sag Channel	1.1 mile below SEPA 3, 5.3 miles above SEPA 4, water quality monitor attached to northeast side Kedzie Avenue bridge, three feet below water surface.
Cicero Avenue	Calumet-Sag Channel	3.1 miles below SEPA 3, 3.3 miles above SEPA 4, water quality monitor attached to northwest side Cicero Avenue bridge, three feet below water surface.
River Mile 311.7	Calumet-Sag Channel	6.4 miles below SEPA 3, 0.1 mile above SEPA 4, water quality monitor attached to concrete wall upstream of SEPA 4 intake structure, three feet below water surface

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TABLE 1 (Continued): CONTINUOUS DISSOLVED OXYGEN MONITORING STATIONS

Monitoring Station	Waterways	Location of Monitoring Station		
	Calume	t River System (Continued)		
Southwest Highway	Calumet-Sag Channel	0.8 mile below SEPA 4, 7.0 miles above Canal Junction SEPA Station, monitor attached to southeast side Southwest Highway bridge, three feet below water surface.		
104 th Avenue	Calumet-Sag Channel	4.6 miles below SEPA 4, 3.2 miles above Canal Junction SEPA Station, water quality monitor in center of channel, one foot above bottom.		
Route 83	Calumet-Sag Channel	0.3 miles above junction with Chicago Sanitary & Ship Canal; 0.2 miles above Canal Junction SEPA Station; water quality monitor on southwest side Illinois Central-Gulf RR bridge, three feet below water surface.		

TABLE I (Continued): CONTINUOUS DISSOLVED OXYGEN MONITORING STATIONS

Water Quality Monitor

In the present study, DO was measured hourly using either the YSI Model 6920 or Model 6600 continuous water quality monitor (monitor). In order to protect and safeguard the monitors from marine navigation and vandalism, the monitors were deployed in the field in stainless steel pipes. Two different installation designs were employed: (1) a 3-foot stainless steel pipe was suspended approximately 1 foot off the bottom of the waterway and orientated downstream such that the water passed through the pipe, and (2) a 12- to 15-foot pipe with multiple 2-inch circular openings was vertically mounted on the side of a bridge abutment.

Servicing the monitors followed a weekly schedule. Industrial Waste Division (IWD) personnel retrieved each monitor from the field following seven days of continuous monitoring. Prior to retrieval, a water sample for DO analysis was collected next to the protective housing. An additional monitor that had been previously calibrated and serviced in the laboratory was then deployed to replace the retrieved monitor. The retrieved monitors were returned to the laboratory for data downloading, exterior cleaning, servicing, and calibration of the DO sensors. The monitors were temporarily stored in holding tanks containing tap water for subsequent deployment during the following week.

Data Management and Review

Hourly DO data was directly exported electronically from individual monitors to a specially designed Access® database for data processing and storage. Following data downloading, the weekly DO data were carefully reviewed for accuracy. The review process included the following: (1) Comparing a grab sample DO value measured in the field with a DO value recorded by a retrieved monitor (DO rejection criteria = difference greater than 2.0 mg/L); (2) Comparing the last hourly DO value measured by a retrieved monitor with the first hourly DO value recorded by a deployed monitor (DO rejection criteria = difference greater than 2.0 mg/L); and (3) Comparing a DO value measured in a laboratory holding tank and a DO value recorded by a retrieved monitor (DO rejection criteria = difference greater than 1.0 mg/L).

After careful review of the DO data, weekly summary statistics (mean, minimum, maximum, and percent observations above DO standard) and individual line drawings for each monitoring station showing hourly DO values were prepared.

Verification of Representative Data

During the fall of 2001 and spring, summer, and fall of 2002, cross-sectional DO surveys were conducted in the CWS to determine if a fixed continuous monitoring location represented the DO concentration across the Verification was achieved by waterway. comparing the DO concentrations measured in grab samples at multiple fixed locations and depths across the waterway with the fixed monitor measurements. The results from the cross-sectional surveys (not presented here) clearly showed that the differences across the waterway were minimal and equivalent to the DO value measured by the monitor at the fixed locations.

The minimum, maximum, and mean DO concentrations measured at all 33 stations on the CWS are shown in <u>Table 2</u>.

The number and percent of DO values rejected and removed from the Access[®] database are summarized in <u>Table 3</u> for all 33 stations on the CWS. Based on the data review methodology previously described, ten percent of the data were rejected. The number of DO values rejected ranged from a low of 2 at Fullerton Avenue on the North Branch of the Chicago River to a high of 3,305 (26 percent) at 104th Avenue on the Calumet-Sag Channel.

The number and percent of DO values above the applicable IPCB DO standard for the subject waterways are presented in <u>Table 4</u>. The DO data shown in <u>Table 4</u> do not include the DO values rejected during the data review.

<u>Table 5</u> shows the percent distribution of DO values from <1.0 mg/L to >5.0 mg/L at the 33 monitoring stations. The current national one-day minimum dissolved oxygen criterion for adult life stages of fish is 3 mg/L (Chapman, 1986).

Weekly DO summary statistics for the 12month monitoring period at the 19 Chicago River System stations, and one Des Plaines River System station, are presented in <u>Appendices AI-1</u> through <u>AI-20</u>, and for the 18-month monitoring period at the 13 Calumet River System stations in <u>Appendices</u> <u>AII-1</u> through <u>AII-13</u>.

The IPCB has assigned water uses for specific water bodies within the state of Illinois. All waters in Illinois are designated for General Use, except those selected as Secondary Contact and Indigenous Aquatic Life Waters (Secondary Contact). In the Chicago and Calumet River Systems, General Use Waters include the North Shore Channel from Lake Michigan to the North Side WRP, and the Chicago and Calumet Rivers.

Secondary Contact Waters include the North Shore Channel from the North Side WRP to the North Branch of the Chicago River, the North Branch of the Chicago River from the North Shore Channel to the Chicago River, the South Branch of the Chicago River, Bubbly Creek, the Chicago Sanitary and Ship Canal, the Grand Calumet River, the deep-draft portion of the Little Calumet River, the Calumet-Sag Channel, and the Des Plaines River from its confluence with the Chicago Sanitary and Ship Canal to the Interstate-55 Bridge southwest of Joliet.

The IPCB has established water quality standards for DO in both General Use and Secondary Contact Waters. In General Use Waters, the DO shall not be less than 6.0 mg/L during 16 hours of any 24-hour period, nor less than 5.0 mg/L at any time. In Secondary Contact Waters, the DO shall not be less than 4.0 mg/L at any time, except in the Calumet-Sag Channel where the DO shall not be less than 3.0 mg/L at any time. For this report, we have selected the 5.0 mg/L DO standard when calculating percent compliance for General Use Waters.

Chicago River System

North Shore Channel. Linden Street. The maximum DO value recorded at Linden Street on the North Shore Channel from January 2002 through December 2002 was 16.3 mg/L. The minimum DO value was 0.0 mg/L. During the 12-month period, the mean DO concentration was 5.9 mg/L at Linden Street.

Monitoring			DO Values (m	g/L)
Station	Waterway	Minimum	Maximum	Mean
· · ·	Chicago River System	2	<u> </u>	
Linden Street	North Shore Channel	0.0	16.3	5.9
Simpson Street	North Shore Channel	0.0	17.6	4.6
Main Street	North Shore Channel	0.0	27.0	6.6
Addison Street	North Branch Chicago River	0.1	11.1	6.7
Fullerton Avenue	North Branch Chicago River	0.2	10.4	5.7
Division Street	North Branch Chicago River	0.4	10.2	6.2
Kinzie Street	North Branch Chicago River	0.0	10.2	5.9
CRCW	Chicago River	1.7	13.6	9.5
Michigan Avenue	Chicago River	2.0	13.1	9.2
Clark Street	Chicago River	2.6	13.2	8.2
Jackson Boulevard	South Branch Chicago River	0.6	10.8	5.8
36th Street	Bubbly Creek	0.0	14.3	4.6
I-55	Bubbly Creek	0.0	10.8	3.9
Cicero Avenue	Chicago Sanitary and Ship Canal	0.0	8.9	5.3
B&O RR	Chicago Sanitary and Ship Canal	1.2	9.5	6.2
Route 83	Chicago Sanitary and Ship Canal	0.1	8.7	5.5
River Mile 302.6	Chicago Sanitary and Ship Canal	0.3	9.5	6.2
Romeoville Road	Chicago Sanitary and Ship Canal	0.8	9.1	5.7
Lockport	Chicago Sanitary and Ship Canal	1.2	8.8	6.0
	Des Plaines River Syster	m ²		
Jefferson Street	Des Plaines River	1.2	12.3	7.0

TABLE 2: MINIMUM, MAXIMUM, AND MEAN HOURLY
DISSOLVED OXYGEN VALUES1

Monitoring			DO Values (mg/L)		
Station	Waterway	Minimum	Maximum	Mean	
	Calumet River System ³	;			
130th Street	Calumet River	5.1	14.9	9.5	
Torrence Avenue	Grand Calumet River	0.0	19.4	7.6	
Conrail RR	Little Calumet River	1.7	16.7	9.3	
C&W Indiana RR	Little Calumet River	0.7	16.6	9.7	
Halsted Street	Little Calumet River	0.4	12.8	6.7	
Ashland Avenue	Little Calumet River	0.0	18.5	6.9	
Division Street	Calumet-Sag Channel	1.3	10.3	6.5	
Kedzie Avenue	Calumet-Sag Channel	1.6	13.3	7.1	
Cicero Avenue	Calumet-Sag Channel	1.1	11.6	6.8	
River Mile 311.7	Calumet-Sag Channel	1.7	12.2	7.0	
Southwest Highway	Calumet-Sag Channel	2.1	11.9	7.1	
104th Avenue	Calumet-Sag Channel	1.4	11.9	6.9	
Route 83	Calumet-Sag Channel	0.0	12.1	6.9	

TABLE 2 (Continued): MINIMUM, MAXIMUM, AND MEAN HOURLY DISSOLVED OXYGEN VALUES¹

¹Dissolved oxygen was measured hourly using a YSI model 6920 or model 6600 continuous water quality monitor.

²January 2002 through December 2002, except June 2002 through December 2002 for 36th Street and April through December for I-55.
³July 2001 through December 2002.

Monitoring Station	Waterway	Number of DO Values Rejected	Percent of DO Values Rejected
	Chicago River System ²		
Linden Street	North Shore Channel	1,057	12
Simpson Street	North Shore Channel	1,889	22
Main Street	North Shore Channel	702	8
Addison Street	North Branch Chicago River	172	2
Fullerton Avenue	North Branch Chicago River	2	<1
Division Street	North Branch Chicago River	30	<1
Kinzie Street	North Branch Chicago River	332	4
CRCW	Chicago River	178	2
Michigan Avenue	Chicago River	197	2
Clark Street	Chicago River	173	2
Jackson Boulevard	South Branch Chicago River	3	<1
36th Street	Bubbly Creek	586	13
I-55	Bubbly Creek	3	<1
Cicero Avenue	Chicago Sanitary and Ship Canal	788	9
B&O RR	Chicago Sanitary and Ship Canal	3	<1
Route 83	Chicago Sanitary and Ship Canal	1,541	18
River Mile 302.6	Chicago Sanitary and Ship Canal	864	10
Romeoville Road	Chicago Sanitary and Ship Canal	5	<1
Lockport	Chicago Sanitary and Ship Canal	10	<1
	Des Plaines River System ²		
Jefferson Street	Des Plaines River	180	2

TABLE 3: NUMBER AND PERCENT OF DISSOLVED OXYGEN VALUESNOT MEETING ACCEPTANCE CRITERIA1

Monitoring Station	Waterway	Number of DO Values Rejected	Percent of DO Values Rejected
	Calumet River System ³	i -	<i>,</i>
130th Street	Calumet River	684	6
Torrence Avenue	Grand Calumet River	1,353	10
Conrail RR	Little Calumet River	378	3
C&W Indiana RR	Little Calumet River	709	6
Halsted Street	Little Calumet River	708	6
Ashland Avenue	Little Calumet River	375	3
Division Street	Calumet-Sag Channel	195	2
Kedzie Avenue	Calumet-Sag Channel	194	2
Cicero Avenue	Calumet-Sag Channel	534	4
River Mile 311.7	Calumet-Sag Channel	892	7
Southwest Highway	Calumet-Sag Channel	362	3
104th Avenue	Calumet-Sag Channel	3,305	26
Route 83	Calumet-Sag Channel	873	7

TABLE 3 (Continued): NUMBER AND PERCENT OF DISSOLVED OXYGEN VALUES NOT MEETING ACCEPTANCE CRITERIA¹

¹Dissolved oxygen was measured hourly using a YSI model 6920 or model 6600 continuous water quality monitor. DO values were rejected based on quality control check and/or operational problems with monitor.

²January 2002 through December 2002, except June 2002 through December 2002 for 36th Street and April through December for I-55.

³July 2001 through December 2002.

Monitoring Station	Waterway	IPCB DO Standard	Number of DO Values	Number of DO Values Above Standard	Percent of DO Values Above Standard
	Chicago R	liver Syster	m ²		м————————————————————————————————————
Linden Street	North Shore Channel	5	7,703	4,582	60
Simpson Street	North Shore Channel	5	6,839	3,077	45
Main Street	North Shore Channel	5	8,058	5,056	63
Addison Street	North Branch Chicago River	4	8,588	8,573	>99
Fullerton Ave.	North Branch Chicago River	4	8,758	7,958	91
Division Street	North Branch Chicago River	4	8,730	8,536	98
Kinzie Street	North Branch Chicago River	4	8,428	8,020	95
CRCW	Chicago River	5	8,582	8,549	>99
Michigan Ave.	Chicago River	5	8,528	8,502	>99
Clark Street	Chicago River	5	8,587	8,553	>99
Jackson Blvd.	South Branch Chicago River	4	8,757	8,115	93
36th Street	Bubbly Creek	4	3,937	2,155	55
I-55	Bubbly Creek	. 4	6,059	3,174	52
Cicero Ave.	Chicago Sanitary and Ship Canal	4	7,972	6,616	83
B&O RR	Chicago Sanitary and Ship Canal	4	8,757	8,419	96
Route 83	Chicago Sanitary and Ship Canal	4	7,219	5,757	80
River Mile 302.6	Chicago Sanitary and Ship Canal	4	7,896	7,304	93
Romeoville Rd.	Chicago Sanitary and Ship Canal	4	8,755	7,173	82
Lockport	Chicago Sanitary and Ship Canal	4	7,405	6,917	93
	Des Plaines	River Syst	em ²		
Jefferson Street	Des Plaines River	4	8,580	7,822	91

TABLE 4: NUMBER AND PERCENT OF DISSOLVED OXYGEN VALUES MEASURED ABOVE THE ILLINOIS POLLUTION CONTROL BOARD'S WATER QUALITY STANDARD¹

Monitoring Station	Waterway	IPCB DO Standard	Number of DO Values	Number of DO Values Above Standard	Percent of DO Values Above Standard
	Calumet	River Syster	m ³		
130th Street	Calumet River	5	10,559	10,559	100
Torrence Avenue	Grand Calumet River	4	11,571	9,376	81
Conrail RR	Little Calumet River	4	12,571	12,449	99
C&W Indiana RR	Little Calumet River	4	12,240	11,885	97
Halsted Street	Little Calumet River	4	12,241	11,951	98
Ashland Avenue	Little Calumet River	5	12,574	8,188	65
Division Street	Calumet-Sag Channel	3	12,754	12,618	99
Kedzie Avenue	Calumet-Sag Channel	3	12,754	12,723	>99
Cicero Avenue	Calumet-Sag Channel	3	12,414	12,311	99
River Mile 311.7	Calumet-Sag Channel	3	12,056	11,994	99
Southwest Highway	Calumet-Sag Channel	3	12,082	12,027	>99
104th Avenue	Calumet-Sag Channel	3	9,570	9,400	98
Route 83	Calumet-Sag Channel	3	12,327	12,066	98

TABLE 4 (Continued): NUMBER AND PERCENT OF DISSOLVED OXYGEN VALUES MEASURED ABOVE THE ILLINOIS POLLUTION CONTROL BOARD'S WATER QUALITY STANDARD¹

¹Dissolved oxygen was measured hourly using a YSI model 6920 or model 6600 continuous water quality monitor.

²January 2002 through December 2002, except June 2002 through December 2002 for 36th Street and April through December for I-55.

³July 2001 through December 2002.

Monitoring		I	Percent	of DO V	alues in	Range (mg/L)
Station	Waterway	<1	1-2	2-3	3-4	4-5	>5
	Chicago River System (January	Throug	h Dece	mber 20	02)		
Linden Street	North Shore Channel	14	7	8	6	5	59
Simpson Street	North Shore Channel	30	5	5	7	8	45
Main Street	North Shore Channel	. 14	5	5	5	8	63
Addison Street	North Branch Chicago River	<1	<1	<1	<1	2	98
Fullerton Avenue	North Branch Chicago River	<1	<1	2	7	18	73
Division Street	North Branch Chicago River	<1	<1	<1	2	11	87
Kinzie Street	North Branch Chicago River	<1	<1	<1	4	20	75
CRCW	Chicago River	0	<1	<1	<1	<1	100
Michigan Avenue	Chicago River	0	<1	<1	<1	<1	100
Clark Street	Chicago River	0	0	<1	<1	<1	100
Jackson Blvd.	South Branch Chicago River	<1	<1	1	6	15	78
36th Street	Bubbly Creek	16	7	8	14	12	43
I-55	Bubbly Creek	16	5	11	16	16	36
Cicero Avenue	Chicago Sanitary & Ship Canal	1	1	3	12	20	63
B&O RR	Chicago Sanitary & Ship Canal	0	<1	<1	3	16	80
Route 83	Chicago Sanitary & Ship Canal	<1	<1	5	15	16	64
River Mile 302.6	Chicago Sanitary & Ship Canal	<1	<1	2	5	17	75
Romeoville Road	Chicago Sanitary & Ship Canal	<1	1	5	12	19	63
Lockport	Chicago Sanitary & Ship Canal	0	1	2	4	19	74
	Des Plaines River System (Januar	y Throu	igh Dec	ember :	2002)		
Jefferson Street	Des Plaines River	0	<l< td=""><td>1</td><td>7</td><td>12</td><td>79</td></l<>	1	7	12	79

TABLE 5: PERCENT OF DISSOLVED OXYGEN (DO) VALUESIN SELECTED RANGES

Monitoring		Percent of DO Values in Range (mg/L)					
Station	Waterway	<1	1-2	2-3	3-4	4-5	>5
Calumet River System (July 2001 Through December 2002)							
130th Street	Calumet River		0	0	0	0	100
Torrence Avenue	Grand Calumet River	2	3	6	8	9	73
Conrail RR	Little Calumet River	0	<1	<1	1	3	97
C&W Indiana RR	Little Calumet River	<1	<1	1	1	2	95
Halsted Street	Little Calumet River	<1	<1	<1	4	20	75
Ashland Avenue	Little Calumet River	1	1	5	14	15	65
Division Street	Calumet-Sag Channel	0	<1	1	4	10	85
Kedzie Avenue	Calumet-Sag Channel	0	<1	<1	1	5	94
Cicero Avenue	Calumet-Sag Channel	0	<1	1	2	7	90
River Mile 311.7	Calumet-Sag Channel	0	<1	<1	2	6	91
Southwest Highway	Calumet-Sag Channel	0	0	<1	2	. 5	92
104th Avenue	Calumet-Sag Channel	0	<1	1	2	8	88
Route 83	Calumet-Sag Channel	<1	<1	2	4	9	85

TABLE 5 (Continued): PERCENT OF DISSOLVED OXYGEN (DO) VALUES IN SELECTED RANGES

The IPCB requires that the DO concentration in those portions of the North Shore Channel classified as General Use Waters shall not be less than 5.0 mg/L at any time. From January 2002 through December 2002, 4,582 of 7,703 DO values at Linden Street (60 percent) were above the IPCB General Use DO standard.

During the 12-month monitoring period, DO measurements below the 5.0 mg/L standard occurred in all months (Figure 2). Twentynine percent of the DO values recorded at Linden Street were below 3.0 mg/L (Table 5).

Simpson Street. From January 2002 through December 2002, the DO concentration measured at Simpson Street on the North Shore Channel ranged from a low of 0.0 mg/L to a high of 17.6 mg/L. The mean DO value at Simpson Street was 4.6 mg/L during the 12-month period.

The IPCB DO standard applicable to Simpson Street on the North Shore Channel is 5.0 mg/L. From January 2002 through December 2002, 3,077 of 6,839 DO observations at Simpson Street (45 percent) were above the IPCB General Use DO standard.

During the 12-month monitoring period, DO measurements below the 5.0 mg/L standard occurred in all months (Figure 3). Forty percent of the DO values recorded at Simpson Street were below 3.0 mg/L (Table 5).

Main Street. The maximum DO value recorded at Main Street on the North Shore Channel from January 2002 through December 2002 was 27.0 mg/L. The minimum DO value was 0.0 mg/L. During the 12month period, the mean DO concentration was 6.6 mg/L at Main Street.

The IPCB requires that the DO concentration in those portions of the North Shore Channel classified as General Use Waters shall not be less than 5.0 mg/L at any time. From January 2002 through December 2002, 5,056 of 8,058 DO values at Main Street (63 percent) were above the IPCB General Use DO standard.

During the 12-month monitoring period, DO measurements below the 5.0 mg/L standard occurred in all months, except for December 2002 (Figure 4). Twenty-four percent of the DO values recorded at Main Street were below 3.0 mg/L (Table 5).

North Branch of the Chicago River. Addison Street. From January 2002 through December 2002, the DO concentration measured at Addison Street on the North Branch of the Chicago River ranged from a low of 0.1 mg/L to a high of 11.1 mg/L. The mean DO value at Addison Street was 6.7 mg/L during the 12-month period.

The IPCB DO standard applicable to Addison Street on the North Branch of the Chicago River is 4.0 mg/L. From January 2002 through December 2002, 8,573 of 8,588 DO observations at Addison Street (>99 percent) were above the IPCB Secondary Contact DO standard.

During the 12-month monitoring period, DO measurements below the 4.0 mg/L standard occurred from June through August, and in October 2002 (Figure 5). Less than one percent of the DO values recorded at Addison Street were below 3.0 mg/L (Table 5).

Fullerton Avenue. The maximum DO value recorded at Fullerton Avenue on the North Branch of the Chicago River from January 2002 through December 2002 was 10.4 mg/L. The minimum DO value was 0.2 mg/L. During the 12-month period, the mean DO concentration was 5.7 mg/L at Fullerton Avenue.
FIGURE 2: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT LINDEN STREET ON THE NORTH SHORE CHANNEL FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 3: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT SIMPSON STREET ON THE NORTH SHORE CHANNEL FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 4: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT MAIN STREET ON THE NORTH SHORE CHANNEL FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 5: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT ADDISON STREET ON THE NORTH BRANCH OF THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002



The IPCB requires that the DO concentration in those portions of the North Branch of the Chicago River classified as Secondary Contact Waters shall not be less than 4.0 mg/L at any time. From January 2002 through December 2002, 7,958 of 8,758 DO values at Fullerton Avenue (91 percent) were above the IPCB Secondary Contact DO standard.

DO measurements below the 4.0 mg/L standard occurred from April through October 2002 (Figure 6). Two percent of the DO values recorded at Fullerton Avenue were below 3.0 mg/L (Table 5).

Division Street. From January 2002 through December 2002, the DO concentration measured at Division Street on the North Branch of the Chicago River ranged from a low of 0.4 mg/L to a high of 10.2 mg/L. The mean DO value at Division Street was 6.2 mg/L during the 12-month period.

The IPCB DO standard applicable to Division Street on the North Branch of the Chicago River is 4.0 mg/L. From January 2002 through December 2002, 8,536 of 8,730 DO observations at Division Street (98 percent) were above the Secondary Contact DO standard.

DO measurements below the 4.0 mg/L standard occurred from April through October 2002 (Figure 7). Less than one percent of the DO values recorded at Division Street were below 3.0 mg/L (Table 5).

Kinzie Street. The maximum DO value recorded at Kinzie Street on the North Branch of the Chicago River from January 2002 through December 2002 was 10.2 mg/L. The minimum DO value was 0.0 mg/L. During the 12-month period, the mean DO concentration was 5.9 mg/L at Kinzie Street. The IPCB requires that the DO concentration in those portions of the North Branch of the Chicago River classified as Secondary Contact Waters shall not be less than 4.0 mg/L at any time. From January 2002 through December 2002, 8,020 of 8,428 DO values at Kinzie Street (95 percent) were above the IPCB Secondary Contact DO standard.

DO measurements below the 4.0 mg/L standard occurred during March, and June through October 2002 (Figure 8). Less than one percent of the DO values recorded at Kinzie Street were below 3.0 mg/L (Table 5).

Chicago River. Chicago River Controlling Works (CRCW). From January 2002 through December 2002, the DO concentration measured at CRCW on the Chicago River ranged from a low of 1.7 mg/L to a high of 13.6 mg/L. The mean DO value at CRCW Street was 9.5 mg/L during the 12month period.

The IPCB DO standard applicable to CRCW on the Chicago River is 5.0 mg/L. From January 2002 through December 2002, 8,549 of 8,582 DO observations at CRCW (>99 percent) were above the IPCB General Use DO standard.

During the 12-month monitoring period, DO measurements below the 5.0 mg/L standard occurred in March and August 2002 (Figure 9). Less than one percent of the DO values recorded at CRCW were below 3.0 mg/L (Table 5).

Michigan Avenue. From January 2002 through December 2002, the DO concentration measured at Michigan Avenue on the Chicago River ranged from a low of 2.0 mg/L to a high of 13.1 mg/L. The mean DO value was 9.2 mg/L during the 12-month monitoring period at Michigan Avenue. FIGURE 6: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT FULLERTON AVENUE ON THE NORTH BRANCH OF THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 7: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT DIVISION STREET ON THE NORTH BRANCH OF THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 8: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT KINZIE STREET ON THE NORTH BRANCH OF THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 9: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT THE CHICAGO RIVER CONTROLLING WORKS ON THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002



The IPCB DO standard applicable to Michigan Avenue on the Chicago River is 5.0 mg/L. From January 2002 through December 2002, 8,502 of 8,528 DO observations at Michigan Avenue (>99 percent) were above the IPCB General Use DO standard.

During the 12-month monitoring period, DO measurements below the 5.0 mg/L standard occurred in August 2002 (Figure 10). Less than 1 percent of the DO values recorded at Michigan Avenue were below 3.0 mg/L (Table 5).

Clark Street. From January 2002 through December 2002, the DO concentration measured at Clark Street on the Chicago River ranged from a low of 2.6 mg/L to a high of 13.2 mg/L. The mean DO value at Clark Street was 8.2 mg/L during the 12month period.

The IPCB DO standard applicable to Clark Street on the Chicago River is 5.0 mg/L. From January 2002 through December 2002, 8,553 of 8,587 DO observations at Clark Street (96 percent) were above the IPCB General Use DO standard.

During the 12-month monitoring period, DO measurements below the 5.0 mg/L standard occurred in August 2002 (Figure 11). Less than one percent of the DO values recorded at Clark Street were below 3.0 mg/L (Table 5).

South Branch of the Chicago River. Jackson Boulevard. The maximum DO value recorded at Jackson Boulevard on the South Branch of the Chicago River from January 2002 through December 2002 was 10.8 mg/L. The minimum DO value was 0.6 mg/L. During the 12-month period, the mean DO concentration was 5.8 mg/L at Jackson Boulevard. The IPCB requires that the DO concentration in the South Branch of the Chicago River shall not be less than 4.0 mg/L at any time. From January 2002 through December 2002, 8,115 of 8,757 DO values at Jackson Boulevard (93 percent) were above the IPCB Secondary Contact DO standard.

During the 12-month monitoring period, DO measurements below the 4.0 mg/L standard occurred from March through October 2002 (Figure 12). One percent of the DO values recorded at Jackson Boulevard were below 3.0 mg/L (Table 5).

Bubbly Creek. 36th Street. From June 26, 2002 through December 2002, the DO concentration measured at 36th Street on Bubbly Creek ranged from a low of 0.0 mg/L to a high of 14.3 mg/L. The mean DO value was 4.6 mg/L.

The IPCB DO standard applicable to 36th Street on the South Branch of the Chicago River is 4.0 mg/L. From June 26, 2002 through December 2002, 2,155 of 3,937 DO observations at 36th Street (55 percent) were above the IPCB Secondary Contact DO standard.

During the 6-month monitoring period, DO measurements below the 4.0 mg/L standard occurred in June through October and in December 2002 (Figure 13). Thirty-one percent of the DO values recorded at 36th Street were below 3.0 mg/L (Table 5).

Interstate Highway 55 (1-55). The maximum DO value recorded at I-55 on Bubbly Creek from April 23 through December 2002, was 10.8 mg/L. The minimum DO value was 0.0 mg/L. The mean DO concentration was 3.9 mg/L.

The IPCB requires that the DO concentration in Bubbly Creek shall not be less than

FIGURE 10: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT MICHIGAN AVENUE ON THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 11: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT CLARK STREET ON THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002



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FIGURE 12: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT JACKSON BOULEVARD ON THE SOUTH BRANCH OF THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 13: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT 36TH STREET ON BUBBLY CREEK FROM JANUARY 2002 THROUGH DECEMBER 2002



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4.0 mg/L at any time. From April 2002 through December 2002, 3,174 of 6,059 DO values at I-55 (52 percent) were above the IPCB Secondary Contact DO standard.

DO measurements below the 4.0 mg/L standard occurred from April through October 2002 (Figure 14). Thirty-two percent of the DO values recorded at I-55 were below 3.0 mg/L (Table 5).

Chicago Sanitary and Ship Canal. Cicero Avenue. From January 2002 through December 2002, the DO concentration measured at Cicero Avenue on the Chicago Sanitary and Ship Canal ranged from a low of 0.0 mg/L to a high of 8.9 mg/L. The mean DO value at Cicero Avenue was 5.3 mg/L during the 12-month period.

The IPCB DO standard applicable to Cicero Avenue on the Chicago Sanitary and Ship Canal is 4.0 mg/L. From January 2002 through December 2002, 6,616 of 7,972 DO observations at Cicero Avenue (83 percent) were above the IPCB Secondary Contact DO standard.

During the 12-month monitoring period, DO measurements below the 4.0 mg/L standard occurred from April through October, and December 2002 (Figure 15). Five percent of the DO values recorded at Cicero Avenue were below 3.0 mg/L (Table 5).

B&O Central Railroad. The maximum DO value recorded at B&O Central Railroad on the Chicago Sanitary and Ship Canal from January 2002 through December 2002 was 9.5 mg/L. The minimum DO value was 1.2 mg/L. The mean DO concentration was 6.2 mg/L at B&O Central Railroad.

The IPCB requires that the DO concentration in the Chicago Sanitary and Ship Canal shall not be less than 4.0 mg/L at any time. From January 2002 through December 2002, 8,419 of 8,757 DO values at B&O Central Railroad (96 percent) were above the IPCB Secondary Contact DO standard.

During the 12-month monitoring period, DO measurements below the 4.0 mg/L standard occurred from April through October 2002 (Figure 16). Less than one percent of the DO values recorded at B&O Central Railroad were below 3.0 mg/L (Table 5).

Route 83. From January 2002 through December 2002, the DO concentration measured at Route 83 on the Chicago Sanitary and Ship Canal ranged from a low of 0.1 mg/L to a high of 8.7 mg/L. The mean DO value at Route 83 was 5.5 mg/L during the 18-month period.

The IPCB DO standard applicable to Route 83 on the Chicago Sanitary and Ship Canal is 4.0 mg/L. From January 2002 through December 2002, 5,757 of 7,219 DO observations at Route 83 (80 percent) were above the IPCB Secondary Contact DO standard.

During the 12-month monitoring period, DO measurements below the 4.0 mg/L standard occurred from April through October 2002 (Figure 17). Five percent of the DO values recorded at Route 83 were below 3.0 mg/L (Table 5).

River Mile 302.6. The maximum DO value recorded at River Mile 302.6 on the Chicago Sanitary and Ship Canal from January 2002 through December 2002 was 9.5 mg/L. The minimum DO value was 0.3 mg/L. During the 12-month period, the mean DO concentration was 6.2 mg/L at River Mile 302.6.

The IPCB requires that the DO concentration in the Chicago Sanitary and Ship Canal shall not be less than 4.0 mg/L at any time. From January 2002 through December 2002, 7,304 of 7,896 DO values at River Mile

FIGURE 14: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT INTERSTATE HIGHWAY 55 ON BUBBLY CREEK FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 15: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT CICERO AVENUE ON THE CHICAGO SANITARY & SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 16: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT B&O CENTRAL RAILROAD ON THE CHICAGO SANITARY & SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 17: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT ROUTE 83 ON THE CHICAGO SANITARY & SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002



302.6 (93 percent) were above the IPCB Secondary Contact DO standard.

During the 12-month monitoring period, DO measurements below the 4.0 mg/L standard occurred from May through October 2002 (Figure 18). Two percent of the DO values recorded at River Mile 302.6 were below 3.0 mg/L (Table 5).

Romeoville Road. From January 2002 through December 2002, the DO concentration measured at Romeoville Road on the Chicago Sanitary and Ship Canal ranged from a low of 0.8 mg/L to a high of 9.1 mg/L. The mean DO value at Romeoville Road was 5.7 mg/L during the 12-month period.

The IPCB DO standard applicable to Romeoville Road on the Chicago Sanitary and Ship Canal is 4.0 mg/L. From January 2002 through December 2002, 7,173 of 8,755 DO observations at Romeoville Road (82 percent) were above the IPCB Secondary Contact DO standard.

During the 12-month monitoring period, DO measurements below the 4.0 mg/L standard occurred from May through October 2002 (Figure 19). Six percent of the DO values recorded at Romeoville Road were below 3.0 mg/L (Table 5).

Lockport. The maximum DO value recorded at Lockport on the Chicago Sanitary and Ship Canal from January 2002 through December 2002 was 8.8 mg/L. The minimum DO value was 1.2 mg/L. During the 12-month period, the mean DO concentration was 6.0 mg/L at Lockport.

The IPCB requires that the DO concentration in the Chicago Sanitary and Ship Canal shall not be less than 4.0 mg/L at any time. From January 2002 through December 2002, 6,917 of 7,405 DO values at Lockport (93 percent) were above the IPCB Secondary Contact DO standard.

During the 12-month monitoring period, DO measurements below the 4.0 mg/L standard occurred during March, May, June, and August through October 2002 (Figure 20). Three percent of the DO values recorded at Lockport were below 3.0 mg/L (Table 5). The DO monitor at Lockport was not in service from June 19 through August 14, 2002.

Des Plaines River System

Des Plaines River. Jefferson Street. From January 2002 through December 2002, the DO concentration measured at Jefferson Street on the Des Plaines River ranged from a low of 1.2 mg/L to a high of 12.3 mg/L. The mean DO value at Jefferson Street was 7.0 mg/L during the 12-month period.

The IPCB DO standard applicable to Jefferson Street on the Des Plaines River is 4.0 mg/L. From January 2002 through December 2002, 7,822 of 8,580 DO observations at Jefferson Street (91 percent) were above the IPCB Secondary Contact DO standard.

During the 12-month monitoring period, DO measurements below the 4.0 mg/L standard occurred from June through September 2002 (Figure 21). One percent of the DO values recorded at Jefferson Street on the Des Plaines River were below 3.0 mg/L (Table 5).

Calumet River System

Calumet River. 130th Street. From July 2001 through December 2002, the DO concentration measured at 130th Street on the Calumet River ranged from a low of 5.1 mg/L to a high of 14.9 mg/L. The mean DO value at 130th Street was 9.5 mg/L during the 18-month period.

FIGURE 18: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT RIVER MILE 302.6 ON THE CHICAGO SANITARY & SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 19: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT ROMEOVILLE ROAD ON THE CHICAGO SANITARY & SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 20: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT LOCKPORT POWERHOUSE ON THE CHICAGO SANITARY & SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002



FIGURE 21: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT JEFFERSON STREET ON THE DES PLAINES RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002



The IPCB DO standard applicable to 130th Street on the Calumet River is 5.0 mg/L. From July 2001 through December 2002, all 10,559 DO observations at 130th Street (100 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, no DO measurements below the 5.0 mg/L standard occurred (Figure 22). No DO values recorded at 130^{th} Street on the Calumet River were below 5.0 mg/L (Table 5).

Grand Calumet River. Torrence Avenue. From July 2001 through December 2002, the DO concentration measured at Torrence Avenue on the Grand Calumet River ranged from a low of 0.0 mg/L to a high of 19.4 mg/L. The mean DO value at Torrence Avenue was 7.6 mg/L during the 18-month period.

The IPCB DO standard applicable to Torrence Avenue on the Grand Calumet River is 4.0 mg/L. From July 2001 through December 2002, 9,376 of 11,571 DO observations at Torrence Avenue (81 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 4.0 mg/L standard occurred from July through December 2001, and March through September 2002 (Figure 23). Eleven percent of the DO values recorded at Torrence Avenue on the Grand Calumet River were below 3.0 mg/L (Table 5).

Little Calumet River. Conrail Railroad. From July 2001 through December 2002, the DO concentration measured at Conrail Railroad on the Little Calumet River ranged from a low of 1.7 mg/L to a high of 16.7 mg/L. The mean DO value at d at Conrail Railroad was 9.3 mg/L during the 18-month period. The IPCB DO standard applicable at Conrail Railroad on the Little Calumet River is 4.0 mg/L. From July 2001 through December 2002, 12,449 of 12,571 DO observations at Conrail Railroad (99 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 4.0 mg/L standard occurred during July and October 2001 and May, June, and July 2002 (Figure 24). Less than one percent of the DO values recorded at Conrail Railroad on the Little Calumet River were below 3.0 mg/L (Table 5).

C&W Indiana Railroad. From July 2001 through December 2002, the DO concentration measured at C&W Indiana Railroad on the Little Calumet River ranged from a low of 0.7 mg/L to a high of 16.6 mg/L. The mean DO value at C&W Indiana Railroad was 9.7 mg/L during the 18-month period.

The IPCB DO standard applicable to C&W Indiana Railroad on the Little Calumet River is 4.0 mg/L. From July 2001 through December 2002, 11,885 of 12,240 DO observations at C&W Indiana Railroad (97 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 4.0 mg/L standard occurred during July 2001, and from May through August 2002 (Figure 25). One percent of the DO values recorded at C&W Indiana Railroad on the Little Calumet River were below 3.0 mg/L (Table 5).

Halsted Street. From July 2001 through December 2002, the DO concentration measured at Halsted Street on the Little Calumet River ranged from a low of 0.4 mg/L to a high of 12.8 mg/L. The mean DO value at Halsted Street was 6.7 mg/L during the 18month period.

FIGURE 22: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT 130TH STREET ON THE CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002



FIGURE 23: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT TORRENCE AVENUE ON THE GRAND CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002



FIGURE 24: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT CONRAIL RAILROAD ON THE LITTLE CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002



FIGURE 25: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT C&W INDIANA RAILROAD ON THE LITTLE CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002



The IPCB DO standard applicable to Halsted Street on the Little Calumet River is 4.0 mg/L. From July 2001 through December 2002, 11,951 of 12,241 DO observations at Halsted Street (98 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 4.0 mg/L standard occurred during July 2001, and from April through July 2002 (Figure 26). Less than one percent of the DO values recorded at Halsted Street on the Little Calumet River were below 3.0 mg/L (Table 5).

Ashland Avenue. From July 2001 through December 2002, the DO concentration measured at Ashland Avenue on the Little Calumet River ranged from a low of 0.0 mg/L to a high of 18.5 mg/L. The mean DO value at Ashland Avenue was 6.9 mg/L during the 18-month period.

The IPCB DO standard applicable to Ashland Avenue on the Little Calumet River is 5.0 mg/L. From July 2001 through December 2002, 8,188 of 12,574 DO observations at Ashland Avenue (65 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 5.0 mg/L standard occurred during July through November 2001, and from April through November 2002 (Figure 27). Seven percent of the DO values recorded at Ashland Avenue on the Little Calumet River were below 3.0 mg/L (Table 5).

Calumet-Sag Channel. Division Street. From July 2001 through December 2002, the DO concentration measured at Division Street on the Little Calumet River ranged from a low of 1.3 mg/L to a high of 10.3 mg/L. The mean DO value at Division Street was 6.5 mg/L during the 18-month period. The IPCB DO standard applicable to Division Street on the Little Calumet River is 3.0 mg/L. From July 2001 through December 2002, 12,618 of 12,754 DO observations at Division Street (99 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 3.0 mg/L standard occurred during July 2001, and July and August 2002 (Figure 28). One percent of the DO values recorded at Division Street on the Little Calumet River were below 3.0 mg/L (Table 5).

Kedzie Avenue. From July 2001 through December 2002, the DO concentration measured at Kedzie Avenue on the Little Calumet River ranged from a low of 1.6 mg/L to a high of 13.3 mg/L. The mean DO value at Kedzie Avenue was 7.1 mg/L during the 18-month period.

The IPCB DO standard applicable to Kedzie Avenue on the Little Calumet River is 3.0 mg/L. From July 2001 through December 2002, 11,723 of 12,754 DO observations at Kedzie Avenue (>99 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 3.0 mg/L standard occurred during July 2001 (Figure 29). Less than one percent of the DO values recorded at Kedzie Avenue on the Little Calumet River were below 3.0 mg/L (Table 5).

Cicero Avenue. From July 2001 through December 2002, the DO concentration measured at Cicero Avenue on the Little Calumet River ranged from a low of 1.1 mg/L to a high of 11.6 mg/L. The mean DO value at Cicero Avenue was 6.8 mg/L during the 18-month period.

The IPCB DO standard applicable to Cicero Avenue on the Little Calumet River is

FIGURE 26: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT HALSTED STREET ON THE LITTLE CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002



FIGURE 27: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT ASHLAND AVENUE ON THE LITTLE CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002



FIGURE 28: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT DIVISION STREET ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002



FIGURE 29: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT KEDZIE AVENUE ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002



3.0 mg/L. From July 2001 through December 2002, 12,311 of 12,414 DO observations at Cicero Avenue (99 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 3.0 mg/L standard occurred during July 2001, and June and July 2002 (Figure 30). One percent of the DO values recorded at Cicero Avenue on the Little Calumet River were below 3.0 mg/L (Table 5).

River Mile 311.7. From July 2001 through December 2002, the DO concentration measured at River Mile 311.7 on the Little Calumet River ranged from a low of 1.7 mg/L to a high of 12.2 mg/L. The mean DO value at River Mile 311.7 was 7.0 mg/L during the 18-month period.

The IPCB DO standard applicable to River Mile 311.7 on the Little Calumet River is 3.0 mg/L. From July 2001 through December 2002, 11,994 of 12,056 DO observations at River Mile 311.7 (99 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 3.0 mg/L standard occurred during July 2001 and July 2002 (Figure 31). Less than one percent of the DO values recorded at River Mile 311.7 on the Little Calumet River were below 3.0 mg/L (Table 5).

Southwest Highway. From July 2001 through December 2002, the DO concentration measured at Southwest Highway on the Little Calumet River ranged from a low of 2.1 mg/L to a high of 11.9 mg/L. The mean DO value at Southwest Highway was 7.1 mg/L during the 18-month period.

The IPCB DO standard applicable to Southwest Highway on the Little Calumet River is 3.0 mg/L. From July 2001 through December 2002, 12,027 of 12,082 DO observations at Southwest Highway (>99 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 3.0 mg/L standard occurred during August 2001 and June 2002 (Figure 32). Less than one percent of the DO values recorded at Southwest Highway on the Little Calumet River were below 3.0 mg/L (Table 5).

104th Avenue. From July 2001 through December 2002, the DO concentration measured at 104th Avenue on the Little Calumet River ranged from a low of 1.4 mg/L to a high of 11.9 mg/L. The mean DO value at 104th Avenue was 6.9 mg/L during the 18-month period.

The IPCB DO standard applicable to 104th Avenue on the Little Calumet River is 3.0 mg/L. From July 2001 through December 2002, 9,400 of 9,570 DO observations at 104th Avenue (98 percent) were above the IPCB General Use DO standard.

During the 18-month monitoring period, DO measurements below the 3.0 mg/L standard occurred during July 2002 (Figure 33). One percent of the DO values recorded at 104th Avenue on the Little Calumet River were below 3.0 mg/L (Table 5).

Route 83. From July 2001 through December 2002, the DO concentration measured at Route 83 on the Calumet-Sag Channel ranged from a low of 0.0 mg/L to a high of 12.1 mg/L. The mean DO value at Route 83 was 6.9 mg/L during the 18-month period.

The IPCB DO standard applicable to Route 83 on the Calumet-Sag Channel is 3.0 mg/L. From July 2002 through December 2002, 12,066 of 12,327 DO observations at

FIGURE 30: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT CICERO AVENUE ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002



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FIGURE 31: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT RIVER MILE 311.7 ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002



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FIGURE 32: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT SOUTHWEST HIGHWAY ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002



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FIGURE 33: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT 104TH AVENUE ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002



Route 83 (98 percent) were above the IPCB Secondary Contact DO standard.

During the 18-month monitoring period, DO measurements below the 3.0 mg/L standard occurred from June through August 2002 (Figure 34). Two percent of the DO values recorded at Route 83 on the Calumet-Sag Channel were below 3.0 mg/L (Table 5). FIGURE 34: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT ROUTE 83 ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002



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APPENDIX AI

WEEKLY DO SUMMARY STATISTICS AT TWENTY MONITORING STATIONS IN THE CHICAGO RIVER SYSTEM AND DES PLAINES RIVER SYSTEM FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of DO Concentration (<u>(mg/L)</u>	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 01/06/02	144	1 /	2.0	25	
01/01/02 - 01/00/02	144	1.4	5.Z	2.5	0
01/01/02 = 01/13/02	169	1.0	3.4	2.3	0
01/21/02 - 01/20/02	100	0.4	5.0	1.9	0
01/21/02 - 01/21/02 01/28/02 - 02/02/02	100	0.0	2.1	0.3	0
01/28/02 - 02/03/02	100 .	0.0	5.4	0.5	1
02/04/02 - 02/10/02 02/11/02 - 02/17/02	155	0.0		0.0	U
02/11/02 = 02/11/02			NODATA		
02/15/02 = 02/24/02	156	2.2	NO DATA	12.0	05
02/23/02 - 03/03/02	150	2.3	15.7	12.0	95
03/04/02 - 03/10/02	108	0.8	8.3	4.8	44
03/11/02 - 03/11/02	108	0.5	8.2	4.0	42
03/18/02 - 03/24/02	108	0.1	10.3	7.2	72
03/23/02 - 03/31/02	108	1.1	11.2	1.1	/9
04/01/02 = 04/07/02	108-	0.0	3.9	1.6	0
04/08/02 - 04/14/02	107	0.0	3.5	1.4	0
04/13/02 - 04/21/02	168	1.1	10.8	8.6	92
04/22/02 - 04/26/02	107	0.3	0.5	3.1	16
04/29/02 - 05/05/02	40	0.5		2.2	U
05/10/02 - 05/12/02	128	0.1		0.2	0
05/15/02 = 05/19/02	120	0.1	1.8	0.3	0
05/20/02 - 05/20/02	108	0.0	1.0	0.1	0
05/27/02 = 00/02/02	108	0.0	10.9	4.3	40
06/03/02 = 06/03/02	169	0.0	10.2	5.0	57
06/17/02 = 06/12/02	100	0.0	11.1 11.0	5.8	57
06/24/02 06/20/02	108	1.1	11.8	9.5	95
07/01/02 = 07/07/02	168	0.7	13.5	11.5	100
07/08/02 = 07/14/02	168	7.7	13.5	10.4	100
07/15/02 = 07/21/02	168	0.1	9.5	7.9 9.1	94
07/22/02 = 07/28/02	168	4.0	9.5	0.1 7.0	99
07/29/02 = 08/04/02	168	3.0	10.1	7.0 × 0	93
07729702 = 08704702 08705702 08711702	168	3.0	10.4	8.0 7.6	94
08/12/02 = 08/18/02	108	2.9	9.5	7.0	90
08/12/02 = 08/10/02	41	7.7	0.2 NO DATA	0.8	90
08/26/02 = 08/25/02	127	7.0	NO DAIA	70	100
09/02/02 = 09/01/02	168	7.0	0.7	7.0	100
09/02/02 = 09/08/02	168	0.0	9.1	7.0	00
09/09/02 = 09/13/02	168	4.7	9.2	1.3	98
09/23/02 = 09/22/02	168	2.0	9.0	0.0	08
09/20/02 = 09/29/02	168	2.4	9.4	7.9	94 60
10/07/02 = 10/13/02	168	67	9.8 10.1	2.2	100
10/14/02 = 10/20/02	168	3.7	7 /	0.0 5.6	100
10/21/02 - 10/27/02	168). 2	7. 4 7	2.0 2.0	
10/28/02 - 11/03/02	168	2.0	+./ 10.6	5.0	U 64
11/04/02 = 11/10/02	167	0.2	67	37	04
11/11/02 - 11/17/02	168	0.2	12.1	2.1 8.5	74
11/18/02 - 11/24/02	168	8 3	12.1	111	100
11/25/02 - 12/01/02	168	5.2	13.1	8.1	100

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TABLE AI-1: WEEKLY DO SUMMARY STATISTICS AT LINDEN STREET ON THE NORTH SHORE
CHANNEL FROM JANUARY 2002 THROUGH DECEMBER 2002

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TABLE AI-1 (Continued): WEEKLY DO SUMMARY STATISTICS AT LINDEN STREET ON THE NORTHSHORE CHANNEL FROM JANUARY 2002 THROUGH DECEMBER 2002

Number of	DO	Concentration	Percent DO Values	
DO Values	Min	Max	Mean	Above Standard
168	4.3	11.9	7.4	91
168	3.5	12.7	8.2	84
167	1.5	9.6	5.1	53
168	0.8	14.0	8.3	80
48	4.6	13.5	8.0	90
	Number of DO Values 168 168 167 168 48	Number of DO Values DO O Min 168 4.3 168 3.5 167 1.5 168 0.8 48 4.6	Number of DO Values DO Concentration Min 168 4.3 11.9 168 3.5 12.7 167 1.5 9.6 168 0.8 14.0 48 4.6 13.5	Number of DO Values DO Concentration (mg/L) Min Max Mean 168 4.3 11.9 7.4 168 3.5 12.7 8.2 167 1.5 9.6 5.1 168 0.8 14.0 8.3 48 4.6 13.5 8.0

	Number of	Number of DO Concentration (mg/L)			
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 - 01/06/02	144	0.0	0.1	0.0	0
01/07/02 - 01/13/02	168	0.0	0.0	0.0	0
01/14/02 - 01/20/02	168	0.0	0.7	0.0	0
01/21/02 - 01/27/02	168	0.0	0.1	0.0	0
01/28/02 - 02/03/02			NO DATA		
02/04/02 - 02/10/02	165	0.0	0.0	0.0	0
02/11/02 - 02/17/02		•	NO DATA		-
02/18/02 - 02/24/02	129	0.0	1.5	0.0	0
02/25/02 - 03/03/02	168	0.0	13.3	5.4	42
03/04/02 - 03/10/02	64	1.1	11.0	4.7	38
03/11/02 - 03/17/02	129	0.0	4.5	0.2	0
03/18/02 - 03/24/02	168	0.0	17.6	9.3	83
03/25/02 - 03/31/02	168	0.0	8.3	4.0	40
04/01/02 - 04/07/02	168	0.0	3.4	14	0
04/08/02 - 04/14/02	167	0.0	2.4	0.6	ů 0
04/15/02 - 04/21/02	167	0.0	85	49	50
04/22/02 - 04/28/02	168	0.2	9.7	2.2	1
04/29/02 - 05/05/02	168	0.2	6.6	1.4	1
05/06/02 - 05/12/02	168	0.2	5.5	1.1	1
05/13/02 - 05/19/02	168	0.0	3.0	0.2	0
05/20/02 - 05/26/02	168	0.0	7.7	0.8	Š
05/27/02 - 06/02/02	168	0.0	10.3	4.0	42
06/03/02 - 06/09/02	168	0.0	8.2	2.5	13
06/10/02 - 06/16/02	167	0.0	85	3.5	29
06/17/02 - 06/23/02	168	2.2	11.6	83	92
06/24/02 - 06/30/02	168	69	12.8	10.6	100
07/01/02 - 07/07/02	168	67	13.2	9.9	100
07/08/02 - 07/14/02	41	0.2	85	6.5	83
07/15/02 - 07/21/02	130	5.6	85	73	100
07/22/02 - 07/28/02	40	6.1	8.0	71	100
07/29/02 - 08/04/02		0.12	NODATA		100
08/05/02 - 08/11/02			NO DATA		
08/12/02 - 08/18/02	127	1.7	8.5	4.9	51
08/19/02 - 08/25/02	168	0.0	8.9	4.6	54
08/26/02 - 09/01/02	168	3.1	8.2	6.7	92
09/02/02 - 09/08/02	168	0.0	9.0	6.2	79
09/09/02 - 09/15/02	168	2.3	8.9	5.8	71
09/16/02 - 09/22/02	168	15	87	44	29
09/23/02 - 09/29/02	168	4 4	85	6.5	96
09/30/02 - 10/06/02	40	3.6	5.8	4.4	13
10/07/02 - 10/13/02	129	6.0	9.4	7.9	100
10/14/02 - 10/20/02	168	2.7	73	49	33
10/21/02 - 10/27/02	168	3.2	5.4	3.9	3
10/28/02 - 11/03/02	168	35	69	53	73
11/04/02 - 11/10/02	168	4.2	8.0	5.7	80
11/11/02 - 11/17/02	168	3 1	11.6	9.6	91
11/18/02 - 11/24/02	168	6.7	12.5	11.0	100
11/25/02 - 12/01/02	15	10.6	11.6	10.8	100

TABLE AI-2: WEEKLY DO SUMMARY STATISTICS AT SIMPSON STREET ON THE NORTH SHORE CHANNEL FROM JANUARY 2002 THROUGH DECEMBER 2002

TABLE AI-2 (Continued):WEEKLY DO SUMMARY STATISTICS AT SIMPSON STREET ON THE NORTHSHORE CHANNEL FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO	Concentration	Percent DO Values				
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard			
12/02/02 - 12/08/02	NO DATA							
12/09/02 - 12/15/02			NO DATA					
12/16/02 - 12/22/02	129	4.0	13.5	7.5	78			
12/23/02 - 12/29/02	168	7.5	15.1	11.8	100			
12/30/02 - 12/31/02	16	12.5	13.6	13.2	100			

Monitoring Dates DO Values Min Max Mean Above Standard 01/01/02 - 01/06/02 144 0.1 0.8 0.1 0 01/01/02 - 01/13/02 168 0.0 2.7 0.2 0 01/01/02 - 01/27/02 168 0.1 6.5 1.1 2 0 01/01/02 - 01/27/02 168 0.1 6.5 1.1 2 0 02/04/02 - 02/03/02 168 0.1 6.5 1.1 2 0 02/11/02 - 02/03/02 168 8.5 16.2 12.9 100 02/25/02 -03/03/02 168 4.5 27.0 19.2 99 03/14/02 - 03/17/02 167 5.5 16.5 10.9 100 03/18/02 - 03/24/02 168 0.18 1.2 14.8 8.5 76 04/01/02 - 04/70/02 167 0.2 6.9 3.1 10 0 03/18/02 - 03/13/02 168 0.3 6.5 3.4 21 <tr< th=""><th></th><th>Number of</th><th><u>D</u>O</th><th>Concentration</th><th>Percent DO Values</th></tr<>		Number of	<u>D</u> O	Concentration	Percent DO Values	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		·····	<u> </u>			~
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	01/01/02 - 01/06/02	144	0.1	0.8	0.1	0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	01/07/02 - 01/13/02	168	0.0	3.1	0.2	0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	01/14/02 - 01/20/02	168	0.0	2.7	0.2	0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	01/21/02 - 01/27/02	168	0.1	6.5	1.1	2
02/14/02 - 02/14/02IG8NO DATA $02/11/02 - 02/17/02$ IG88.5IG2I2.9I00 $02/15/02 - 03/03/02$ IG88.423.813.9I00 $02/25/02 - 03/03/02$ IG84.527.0I9.299 $03/04/02 - 03/10/02$ IG80.5I1.75.255 $03/11/02 - 03/17/02$ IG75.5IG.5I0.9I00 $03/15/02 - 03/24/02$ IG810.821.8I5.8I00 $03/25/02 - 03/24/02$ IG80.75.63.38 $04/01/02 - 04/07/02$ IG80.75.63.38 $04/01/02 - 04/14/02$ IG70.26.93.1I0 $04/15/02 - 04/12/02$ IG80.36.53.421 $04/22/02 - 04/28/02$ IG80.17.83.1I0 $05/06/02 - 05/12/02$ IG80.05.51.01 $05/02/02 - 05/12/02$ IG80.04.41.00 $06/13/02 - 06/09/02$ IG80.04.41.00 $06/10/02 - 06/09/02$ IG80.01.28.581 $07/05/02 - 07/21/02$ IG80.01.28.51.1 $06/10/02 - 06/30/02$ IG80.01.28.581 $07/15/02 - 07/21/02$ IG80.01.28.581 $07/15/02 - 07/21/02$ IG83.66.15.265 $07/21/02 - 06/30/02$ IG81.96.24.733 <td>01/28/02 - 02/03/02</td> <td>168</td> <td>0.0</td> <td>. 6.2</td> <td>2.3</td> <td>10</td>	01/28/02 - 02/03/02	168	0.0	. 6.2	2.3	10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02/04/02 - 02/10/02			NO DATA		•
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02/11/02 - 02/17/02	168	8.5	16.2	12.9	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02/18/02 - 02/24/02	168	8.4	23.8	13.9	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	02/25/02 - 03/03/02	168	4.5	27.0	19.2	99
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/04/02 - 03/10/02	168	0.5	11.7	5.2	55
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/11/02 - 03/17/02	167	5.5	16.5	10.9	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/18/02 - 03/24/02	168	10.8	21.8	15.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/25/02 - 03/31/02	168	1.2	14.8	8.5	76
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/01/02 - 04/07/02	168	0.7	5.6	3.3	8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/08/02 - 04/14/02	167	0.2	6.9	3.1	10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/15/02 - 04/21/02	168	0.3	9.2	5.5	74
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/22/02 - 04/28/02	168	0.3	6.5	3.4	21
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/29/02 - 05/05/02	168	0.1	7.8	3.1	10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	05/06/02 - 05/12/02	168	2.8	8.7	6.4	82
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	05/13/02 - 05/19/02	168	0.0	5.5	1.0	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	05/20/02 - 05/26/02	39	0.0	3.1	1.2	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	05/27/02 - 06/02/02	129	0.0	10.7	4.8	57
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	06/03/02 - 06/09/02	168	0.0	4.9	0.7	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	06/10/02 - 06/16/02	168	0.0	4.4	1.0	0
06/24/02 - 06/30/021685.811.69.4100 $07/01/02 - 07/07/02$ 1680.012.08.581 $07/08/02 - 07/14/02$ 1680.06.94.359 $07/15/02 - 07/21/02$ 1683.66.15.265 $07/22/02 - 07/28/02$ 1681.96.24.738 $07/29/02 - 08/04/02$ 1681.67.86.286 $08/05/02 - 08/11/02$ 1683.76.85.998 $08/12/02 - 08/18/02$ 1681.56.44.733 $08/19/02 - 08/25/02$ 1670.08.63.538 $08/26/02 - 09/01/02$ 1683.67.95.991 $09/02/02 - 09/08/02$ 1674.18.35.664 $09/16/02 - 09/22/02$ 393.85.24.513 $09/23/02 - 09/29/02$ 1294.98.16.499 $09/30/02 - 10/06/02$ 1681.17.74.635 $10/07/02 - 10/20/02$ 1676.88.77.9100 $10/24/02 - 10/20/02$ 1676.88.77.9100 $10/28/02 - 10/20/02$ 1676.88.77.9100 $10/28/02 - 10/20/02$ 1687.312.99.7100 $10/28/02 - 11/10/02$ 1687.312.99.7100 $11/11/02 - 11/11/02$ 1683.711.89.698	06/17/02 - 06/23/02	168	0.0	9.6	6.0	77
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	06/24/02 - 06/30/02	168	5.8	11.6	9.4	100
07/08/02 - 07/14/02 168 0.0 6.9 4.3 59 $07/15/02 - 07/21/02$ 168 3.6 6.1 5.2 65 $07/22/02 - 07/28/02$ 168 1.9 6.2 4.7 38 $07/29/02 - 08/04/02$ 168 1.6 7.8 6.2 86 $08/05/02 - 08/11/02$ 168 1.6 7.8 6.2 86 $08/05/02 - 08/11/02$ 168 3.7 6.8 5.9 98 $08/12/02 - 08/18/02$ 168 1.5 6.4 4.7 33 $08/19/02 - 08/25/02$ 167 0.0 8.6 3.5 38 $08/26/02 - 09/01/02$ 168 3.6 7.9 5.9 91 $09/02/02 - 09/08/02$ 168 3.3 8.1 5.5 65 $09/09/02 - 09/15/02$ 167 4.1 8.3 5.6 64 $09/16/02 - 09/22/02$ 39 3.8 5.2 4.5 13 $09/23/02 - 09/29/02$ 129 4.9 8.1 6.4 99 $09/30/02 - 10/06/02$ 168 1.1 7.7 4.6 35 $10/07/02 - 10/13/02$ 168 5.7 9.0 7.4 100 $10/14/02 - 10/20/02$ 167 6.8 8.7 7.9 100 $10/28/02 - 11/03/02$ 127 10.4 14.6 12.7 100 $11/04/02 - 11/10/02$ 168 3.7 11.8 9.6 98	07/01/02 - 07/07/02	168	0.0	12.0	8.5	81
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/08/02 - 07/14/02	168	0.0	6.9	4.3	59
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/15/02 - 07/21/02	168	3.6	6.1	5.2	65
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/22/02 - 07/28/02	168	19	62	47	38
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/29/02 - 08/04/02	168	1.6	7.8	62	86
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	08/05/02 = 08/11/02	168	37	6.8	5.9	98
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	08/12/02 - 08/18/02	168	15	6.0	5.5 A 7	33
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	08/12/02 = 08/25/02	167	0.0	8.6	35	38
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	08/26/02 = 08/25/02	168	3.6	79	59	01
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	09/02/02 = 09/01/02	168	33	81	5.5	65
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/02/02 = 09/08/02	167	J.J 4 1	83	5.5	64
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/09/02 = 09/19/02	30	3.8	5.2	J.0 4.5	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/10/02 = 09/22/02	120	J.8 4.0	9.2 8.1	4.5	15
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/20/02 = 09/20/02	168	4.9	ס.1 דר	0.4	25
10/14/02 - 10/20/02 167 6.8 8.7 7.9 100 10/14/02 - 10/20/02 167 6.8 8.7 7.9 100 10/21/02 - 10/27/02 40 7.0 8.8 7.9 100 10/28/02 - 11/03/02 127 10.4 14.6 12.7 100 11/04/02 - 11/10/02 168 7.3 12.9 9.7 100 11/11/02 - 11/17/02 168 3.7 11.8 9.6 98	10/07/02 - 10/12/02	160	57	0.0	4.0 7 A	3 <i>3</i> 100
10/14/02 - 10/20/02 107 0.8 8.7 7.9 100 10/21/02 - 10/27/02 40 7.0 8.8 7.9 100 10/28/02 - 11/03/02 127 10.4 14.6 12.7 100 11/04/02 - 11/10/02 168 7.3 12.9 9.7 100 11/11/02 - 11/17/02 168 3.7 11.8 9.6 98	10/14/02 - 10/15/02	167	ر. ۲	9.U Q 7	7.4	100
10/21/02 - 10/21/02 40 7.0 8.8 7.9 100 10/28/02 - 11/03/02 127 10.4 14.6 12.7 100 11/04/02 - 11/10/02 168 7.3 12.9 9.7 100 11/11/02 - 11/17/02 168 3.7 11.8 9.6 98	10/14/02 - 10/20/02	107	0.0	0./	7.9	100
10/20/02 - 11/05/02 127 10.4 14.6 12.7 100 11/04/02 - 11/10/02 168 7.3 12.9 9.7 100 11/11/02 - 11/17/02 168 3.7 11.8 9.6 98	10/21/02 - 10/27/02	40	10.4	0.0 1 <i>4 6</i>	1.7	100
11/04/02 - 11/10/02 108 7.5 12.9 9.7 100 11/11/02 - 11/17/02 168 3.7 11.8 9.6 98	10/20/02 - 11/05/02	12/	10.4	14.0	12.7	100
11/11/02 - 11/17/02 108 3.7 11.8 9.0 98	11/04/02 - 11/10/02	100	1.5	12.9	9.7	100
	11/11/02 - 11/1//02	108	3.1	11.8	9.0	98
$\frac{11}{10} \frac{11}{24} \frac{100}{12} = \frac{100}{144} = \frac{100}{12} = \frac{100}{100} = \frac{100}{100$	11/10/02 - 11/24/02	108	1.5	11.5	10.5	100

TABLE AI-3: WEEKLY DO SUMMARY STATISTICS AT MAIN STREET ON THE NORTH SHORECHANNEL FROM JANUARY 2002 THROUGH DECEMBER 2002

TABLE AI-3 (Continued): WEEKLY DO SUMMARY STATISTICS AT MAIN STREET ON THE NORTH SHORE CHANNEL FROM JANUARY 2002 THROUGH DECEMBER 2002

Monitoring Dates	Number of	DO Concentration (mg/L)			Percent DO Values
	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	8.4	10.7	9.0	100
12/09/02 - 12/15/02	168	8.4	13.9	11.0	100
12/16/02 - 12/22/02	168	7.0	13.0	10.8	100
12/23/02 - 12/29/02	168	7.3	14.0	10.9	100
12/30/02 - 12/31/02	48	10.8	13.8	12.1	100

	Number of	DO (Concentration	<u>(mg/L)</u>	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard	
01/01/02 - 01/06/02	144	6.9	9.1	7.9	100	
01/07/02 = 01/13/02	168	63	8.1	7.2	100	
01/14/02 = 01/20/02	168	6.0	79	7 1	100	
01/21/02 = 01/20/02	167	6.0	81	6.8	100	
01/28/02 = 07/27/02	168	5.9	86	6.9	100	
02/04/02 = 02/10/02	168	6.6	8.6	7.6	100	
02/04/02 = 02/10/02	167	71	9.0	7.0	100	
02/18/02 = 02/14/02	168	5.9	9.0	7.8	100	
02/13/02 = 02/24/02 02/25/02 = 03/03/02	168	53	9.2	7.5	100	
03/04/02 = 03/10/02	168	69	11.1	8.8	100	
03/11/02 - 03/17/02	168	7.0	10.2	8 t	100	
03/18/02 - 03/24/02	168	61	10.2 8 4	7.2	100	
03/25/02 - 03/21/02	168	55	7 8	6.8	100	
03/23/02 = 03/31/02 04/01/02 = 04/07/02	168	5.5 6 0	7.0	6.9	100	
04/08/02 = 04/14/02	167	5.8	9.5	7.6	100	
04/03/02 = 04/21/02	168	53	2.5 8.0	6.6	100	
04/22/02 = 04/28/02	168	51	8.0	6.0	100	
04/29/02 = 05/05/02	168	5.6	9.2	74	100	
03/05/02 = 05/05/02	168	57	9.0 8.8	6.8	100	
05/100/02 = 05/12/02	168	25	85	0.8 7 4	00	
05/10/02 = 05/10/02	168	5.1	0.5 7 4	6.4	100	
05/20/02 = 05/20/02	168	4.6	7.4	5.8	100	
06/03/02 = 06/09/02	168	52	7.0 7 7	5.0	100	
06/10/02 - 06/16/02	168	0.1	6.6	57	06	
06/17/02 - 06/23/02	168	5.2	6.0	61	100	
06/24/02 - 06/30/02	168	4.2	71	58	100	
07/01/02 - 07/07/02	168	5.4	7.0	6.1	100 .	
07/08/02 - 07/14/02	168	15	61	5.2	08	
07/15/02 - 07/21/02	168	43	59	5.2	100	
07/22/02 - 07/28/02	168	4.2	64	5.5	100	
07/29/02 - 08/04/02	168	43	7.2	63	100	
08/05/02 - 08/11/02	167	5.0	7.2	61	100	
08/12/02 - 08/18/02	168	3.0	6.6	57	08	
08/19/02 - 08/25/02	168	4.8	75	6.2	100	
08/26/02 - 09/01/02	168	5 2	7.1	63	100	
09/02/02 - 09/08/02	168	5.0	7.2	63	100	
09/09/02 - 09/15/02	168	5.2	7.1	61	100	
09/16/02 - 09/22/02	168	5.0	6.9	6.2	100	
09/23/02 - 09/29/02	168	5.2	7.4	6.4	100	
09/30/02 - 10/06/02	168	2.4	7.6	63	99	
10/07/02 - 10/13/02	168	5 5	7.3	6.5	100	
10/14/02 - 10/20/02	168	5.0	7.2	6.1	100	
10/21/02 - 10/27/02	168	5.0	7.0	6.0	100	
10/28/02 - 11/03/02	168	4.9	7.0	5.8	100	
11/04/02 - 11/10/02	168	5.2	7.7	6.5	100	
11/11/02 - 11/17/02	37	5.6	6.7	6.1	100	
11/18/02 - 11/24/02	132	5.5	8.9	7.2	100	
11/25/02 - 12/01/02	168	6.3	9.3	7.3	100	

TABLE AI-4: WEEKLY DO SUMMARY STATISTICS AT ADDISON STREET ON THE NORTH BRANCH
CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

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TABLE AI-4 (Continued):WEEKLY DO SUMMARY STATISTICS AT ADDISON STREET ON THE NORTH
BRANCH CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO Concentration (mg/L)			Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
	······································		· · · · · · · · · · · · · · · · · · ·		
12/02/02 - 12/08/02	168	6.8	8.6	7.5	100
12/09/02 - 12/15/02	167	6.4	9.6	7.5	100
12/16/02 - 12/22/02	168	6.1	8.9	7.7	100
12/23/02 - 12/29/02	168	6.4	10.1	7.9	100
12/30/02 - 12/31/02	48 -	6.7	9.1	7.5	100

TABLE AI-5: WEEKLY DO SUMMARY STATISTICS AT FULLERTON AVENUE ON THE NORTHBRANCH CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO Concentration (mg		(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 - 01/06/02	144	6.3	7.4	6.9	100
01/07/02 - 01/13/02	168	6.0	6.9	6.5	100
01/14/02 - 01/20/02	167	5.7	7.0	6.3	100
01/21/02 - 01/27/02	168	5.4	7.0	6.2	100
01/28/02 - 02/03/02	168	5.1	8.0	63	100
02/04/02 - 02/10/02	168	6.1	82	7.0	100
02/11/02 = 02/17/02	168	69	8.5	7.6	100
02/18/02 = 02/17/02	168	53	8.8	7.0	100
02/10/02 = 02/24/02	168	12	0.0	6.0	100
02/23/02 = 03/03/02	100	4.5	0.0	0.9	100
03/04/02 = 03/10/02	100	0.0	10.4	0.1	100
03/11/02 - 03/17/02	108	5.8	10.3	1.3	100
03/18/02 - 03/24/02	108	5.1	7.1	0.0	100
03/23/02 - 03/31/02	108	4.4	0.5	5.0	100
04/01/02 - 04/07/02	108	4.8	0.4	5.7	100
04/08/02 - 04/14/02	107	4.4	9.0	6./	100
04/15/02 - 04/21/02	168	3.0	1.4	5.1	90
04/22/02 - 04/28/02	168	4.2	6.4	5.4	100
04/29/02 - 05/05/02	168	4.5	7.8	6.1	100
05/06/02 - 05/12/02	168	3./	7.8	5.3	98
05/13/02 - 05/19/02	168	2.4	7.7	6.4	99
05/20/02 - 05/26/02	168	3.8	6.4	5.2	99
05/27/02 - 06/02/02	168	3.0	5.5	4.2	67
06/03/02 - 06/09/02	168	3.6	7.2	5.5	96
06/10/02 - 06/16/02	168	0.3	5.3	3.9	54
06/17/02 - 06/23/02	168	3.1	4.8	4.0	51
06/24/02 - 06/30/02	168	3.1	6.2	4.9	79
07/01/02 - 07/07/02	168	3.7	5.7	4.7	93
07/08/02 - 07/14/02	168	0.2	4.2	3.0	4
07/15/02 - 07/21/02	168	0.9	4.0	3.0	1
07/22/02 - 07/28/02	168	1.5	4.8	3.8	46
07/29/02 - 08/04/02	168	2.9	5.1	4.3	76
08/05/02 - 08/11/02	168	3.5	5.4	4.8	94
08/12/02 - 08/18/02	168	2.4	6.2	5.0	94
08/19/02 - 08/25/02	168	4.0	6.5	5.3	99
08/26/02 - 09/01/02	168	4.4	6.3	5.4	100
09/02/02 - 09/08/02	168	3.1	6.1	5.2	99
09/09/02 - 09/15/02	168	4.3	5.7	5.1	100
09/16/02 - 09/22/02	168	3.2	6.0	5.1	98
09/23/02 - 09/29/02	168	4.7	6.4	5.6	100
09/30/02 - 10/06/02	168	2.5	6.6	5.1	92
10/07/02 - 10/13/02	168	3.0	6.2	5.2	95
10/14/02 - 10/20/02	168	4.0	6.6	5.3	100
10/21/02 - 10/27/02	168	4.0	6.3	5.3	100
10/28/02 - 11/03/02	168	4.6	6.3	5.6	100
11/04/02 - 11/10/02	168	4.9	6.7	5.9	100
11/11/02 - 11/17/02	168	4.5	7.8	6.2	100
11/18/02 - 11/24/02	168	5.1	8.0	6.5	100
11/25/02 - 12/01/02	168	6.2	8.9	7.1	100

TABLE AI-5 (Continued):WEEKLY DO SUMMARY STATISTICS AT FULLERTON AVENUE ON THE
NORTH BRANCH CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO	Concentratior	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	6.6	8.0	7.0	100
12/09/02 - 12/15/02	168	6.0	8.1	6.8	100
12/16/02 - 12/22/02	168	6.1	8.6	7.6	100
12/23/02 - 12/29/02	168	6.8	9.8	7.9	100
12/30/02 - 12/31/02	48	6.1	7.3	6.8	100

TABLE AI-6:WEEKLY DO SUMMARY STATISTICS AT DIVISION STREET ON THE NORTH BRANCH
CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO	Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 - 01/06/02	144	61	76	69	100
01/07/02 - 01/13/02	147	5.8	7.0	6.4	100
01/14/02 - 01/20/02	168	5.8	8.4	67	100
01/21/02 - 01/27/02	168	5.0	0. 4 7 A	63	100
01/28/02 - 02/03/02	168	49	8.0	6.4	100
02/04/02 - 02/10/02	168	62	8.0	7.0	100
$\frac{02}{11} \frac{02}{102} = \frac{02}{1000} \frac{1000}{1000}$	168	6.2	8.0	7.0	100
02/18/02 - 02/24/02	168	54	8. 4	7.0	100
02/25/02 - 03/03/02	168	4.2	0.0 7.6	60	100
03/04/02 = 03/10/02	168	4.6	10.1	7.0	100
03/11/02 - 03/17/02	168	4.0	10.1	7.9	100
03/18/02 - 03/24/02	168	10	10.2	1.5	100
03/25/02 = 03/24/02	168	4.9	0.7	0.4	100
04/01/02 = 04/07/02	168	5 3	9.5	0.3	100
04/01/02 = 04/01/02	100	J.J 4 2	7.9	0.2	100
04/08/02 = 04/14/02 04/15/02 = 04/21/02	169	4.5	0.2 7.2	0.4 5.9	100
04/13/02 - 04/21/02	108	4.4	7.3	5.8	100
04/22/02 = 04/28/02	108	3.7	8.3	5.9	9/
04/23/02 = 03/03/02	100	4.8	/./	6.2	100
05/10/02 - 05/12/02	100	4.1	8.3	6.5	100
05/15/02 - 05/19/02	108	1.3	8.8	6.9	98
05/20/02 - 05/20/02	108	4.0	7.6	5.8	99
05/27/02 - 00/02/02	108	3.7	7.5	5.2	95
06/03/02 - 06/09/02	108	3.4	7.0	5.5	98
06/10/02 - 06/10/02	108	0.5	7.5	5.6	89
06/24/02 06/23/02	108	3.4	8.0	5.8	99
00/24/02 - 00/30/02	108	1./	6.0	4.5	82
07/01/02 - 07/07/02	10/	3.5	6.4	5.3	96
07/08/02 - 07/14/02	108	0.4	5.9	4.2	71
07/13/02 - 07/21/02	108	3.0	5.5	4.5	86
07/22/02 - 07/28/02	108	3.0	/.8	5.2	99
0/1/29/02 = 08/04/02	108	3.7	6.2	5.2	94
08/03/02 - 08/11/02	108	4.8	6.7	5.9	100
08/12/02 - 08/18/02	167	2.4	6.7	5.6	96
08/19/02 - 08/25/02	168	3.2	7.4	5.8	98
08/26/02 - 09/01/02	168	4.1	7.0	5.6	100
09/02/02 - 09/08/02	168	2.2	7.6	6.2	97
09/09/02 - 09/15/02	168	4.1	6.8	5.8	100
09/16/02 - 09/22/02	168	4.6	7.5	6.2	100
09/23/02 - 09/29/02	168	4.0	8.1	6.4	100
09/30/02 - 10/06/02	168	2.6	7.6	6.2	95
10/0//02 - 10/13/02	168	3.7	8.1	6.1	96
10/14/02 - 10/20/02	168	4.6	7.9	6.5	100
10/21/02 - 10/27/02	168	4.0	8.4	6.3	99
10/28/02 - 11/03/02	168	5.4	8.5	6.7	100
11/04/02 - 11/10/02	168	4.5	8.8	6.4	100
11/11/02 - 11/17/02	168	4.4	8.2	6.3	100
11/18/02 - 11/24/02	168	5.5	8.5	6.5	100
11/25/02 - 12/01/02	168	5.9	7.9	6.6	100

TABLE AI-6 (Continued):WEEKLY DO SUMMARY STATISTICS AT DIVISION STREET ON THE NORTH
BRANCH CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO (Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	63	7.6	68	100
12/09/02 - 12/15/02	168	6.2	8.6	6.9	100
12/16/02 - 12/22/02	167	5.6	9.1	7.5	100
12/23/02 - 12/29/02	168	6.7	8.9	7.6	100
12/30/02 - 12/31/02	48	5.7	. 7.2	6.4	100

TABLE AI-7:WEEKLY DO SUMMARY STATISTICS AT KINZIE STREET ON THE NORTH BRANCH
CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO	Concentration	(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 01/06/02	144	62	71	67	100
01/01/02 - 01/00/02	144	0.5	7.1	0.7	100
01/07/02 - 01/13/02	108	5.5	0.0	0.1	100
01/14/02 - 01/20/02	168	5.5	7.8	6.2	100
01/21/02 - 01/2//02	168	5.4	7.3	6.0	100
01/28/02 - 02/03/02	168	5.3	9.9	6.6	100
02/04/02 - 02/10/02	168	6.2	8.1	7.1	100
02/11/02 - 02/17/02	168	6.1	8.3	7.5	100
02/18/02 - 02/24/02	168	6.2	9.0	7.7	100
02/25/02 - 03/03/02	168	6.5	8.9	7.1	100
03/04/02 - 03/10/02	168	6.1	9.8	8.0	100
03/11/02 - 03/17/02	168	5.8	10.2	7.7	100
03/18/02 - 03/24/02	168	4.8	8.5	6.2	100
03/25/02 - 03/31/02	168	3.8	7.8	5.7	99
04/01/02 - 04/07/02	168	4.7	8.1	6.0	100
04/08/02 - 04/14/02	167	4.3	8.1	6.5	100
04/15/02 - 04/21/02	168	4.0	7.3	5.7	100
04/22/02 - 04/28/02	168	4.6	7.9	6.1	100
04/29/02 - 05/05/02	168	5.2	7.8	6.4	100
05/06/02 - 05/12/02	168	4.8	7.3	6.1	100
05/13/02 - 05/19/02	168	1.5	8.0	6.5	95
05/20/02 - 05/26/02	168	3.4	7.4	5.5	98
05/27/02 - 06/02/02	168	3.9	6.1	4.9	98
06/03/02 - 06/09/02	168	3.9	6.6	5.0	99
06/10/02 - 06/16/02	168	0.0	6.0	3.8	61
06/17/02 - 06/23/02	168	3.8	5.9	4.6	92
06/24/02 - 06/30/02	168	2.4	5.3	4.0	48
07/01/02 - 07/07/02	168	3.3	5.3	4.6	95
07/08/02 - 07/14/02	38	0.8	4.7	3.9	71
07/15/02 - 07/21/02	134	3.5	4.5	4.0	50
07/22/02 - 07/28/02	168	3.0	5.2	4.4	86
07/29/02 - 08/04/02	168	3.4	4.9	4.5	88
08/05/02 - 08/11/02	168	4.5	5.8	5.3	100
08/12/02 - 08/18/02	168	1.7	6.0	5.0	90
08/19/02 - 08/25/02	168	2.5	6.6	5.1	93
08/26/02 - 09/01/02	37	4.2	5.4	4.7	100
09/02/02 - 09/08/02	132	3.8	6.5	5.6	95
09/09/02 - 09/15/02	168	4.1	5.9	5.1	100
09/16/02 - 09/22/02	168	3.7	7.0	5.2	97
09/23/02 - 09/29/02	168	3.9	7.3	5.8	96
09/30/02 - 10/06/02	168	1.5	6.9	5.5	86
10/07/02 - 10/13/02	168	3.5	7.0	5.2	86
10/14/02 - 10/20/02	168	4.4	7.1	6.0	100
10/21/02 - 10/27/02	168	4.2	7.8	6.1	100
10/28/02 - 11/03/02	168	4.2	7.8	6.0	100
11/04/02 - 11/10/02	168	4.4	7.8	5.9	100
11/11/02 - 11/17/02	168	4.5	6.9	5.6	100
11/18/02 - 11/24/02	168	5.3	7.8	6.3	100
11/25/02 - 12/01/02	168	6.0	7.5	6.6	100

TABLE AI-7 (Continued):WEEKLY DO SUMMARY STATISTICS AT KINZIE STREET ON THE NORTH
BRANCH CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

Number of	DO (Concentration	Percent DO Values	
DO Values	Min	Max	Mean	Above Standard
169	6.2	07	٤ ٩	100
168	6.2	8.7 7.5	0.8 6.7	100
168	4.4	8.7	7.1	100
168	6.7	8.4	7.4	100
48 .	5.7	7.9	6.8	100
	Number of DO Values 168 168 168 168 168 48	Number of DO Values DO C 168 6.2 168 6.2 168 4.4 168 6.7 48 5.7	Number of DO Values DO Concentration Min 168 6.2 8.7 168 6.2 7.5 168 4.4 8.7 168 6.7 8.4 48 5.7 7.9	Number of DO Values DO Concentration (mg/L) Min Max Mean 168 6.2 8.7 6.8 168 6.2 7.5 6.7 168 4.4 8.7 7.1 168 6.7 8.4 7.4 48 5.7 7.9 6.8

	Number of	DO	DO Concentration (mg/L)		Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard	
	·····			. <u>.</u>		
01/01/02 - 01/06/02	144	10.5	12.5	11.6	100	
01/07/02 - 01/13/02	168	11.1	13.2	12.2	100	
01/14/02 - 01/20/02	168	10.9	13.0	11.8	100	
01/21/02 - 01/27/02	168	11.1	13.6	12.1	100	
01/28/02 - 02/03/02	169	10.9	13.1	12.0	100	
02/04/02 - 02/10/02	168	7.8	13.0	11.4	100	
02/11/02 - 02/17/02	168	8.2	11.5	10.0	100	
02/18/02 - 02/24/02	168	7.8	11.7	10.3	100	
02/25/02 - 03/03/02	168	9.3	12.8	11.4	100	
03/04/02 - 03/10/02	168	4.8	12.7	9.8	99	
03/11/02 - 03/17/02	168	6.3	11.0	9.2	100	
03/18/02 - 03/24/02	168	2.1	12.1	9.7	96	
03/25/02 - 03/31/02	168	7.6	12.4	11.2	100	
04/01/02 - 04/07/02	168	10.8	12.7	11.8	100	
04/08/02 - 04/14/02	167	9.7	13.1	11.8	100	
04/15/02 - 04/21/02	168	6.4	11.6	9.9	100	
04/22/02 - 04/28/02	168	9.0	10.9	9.8	100	
04/29/02 - 05/05/02	168	8.2	10.4	9.4	100	
05/06/02 - 05/12/02	168	7.7	10.3	9.2	100	
05/13/02 - 05/19/02	168	8.1	10.0	9.1	100	
05/20/02 - 05/26/02	36	8.8	10.1	9.5	100	
05/27/02 - 06/02/02	132	7.2	10.6	9.3	100	
06/03/02 - 06/09/02	168	8.7	10.6	9.6	100	
06/10/02 - 06/16/02	168	5.8	10.1	8.5	100	
06/17/02 - 06/23/02	168	7.1	10.8	9.5	100	
06/24/02 - 06/30/02	168	9.0	11.6	10.4	100	
07/01/02 - 07/07/02	168	7.6	11.7	10.2	100	
07/08/02 - 07/14/02	168	6.1	8.9	7.7	100	
07/15/02 - 07/21/02	168	5.7	7.9	7.1	100	
07/22/02 - 07/28/02	168	5.6	7.4	6.6	100	
07/29/02 - 08/04/02	168	5.6	7.7	6.8	100	
08/05/02 - 08/11/02	168	6.6	7.7	7.1	100	
08/12/02 - 08/18/02	168	6.6	8.7	7.1	100	
08/19/02 - 08/25/02	168	1.7	9.5	7.3	85	
08/26/02 - 09/01/02	168	7.0	9.1	8.0	100	
09/02/02 - 09/08/02	168	6.2	7.5	7.0	100	
09/09/02 - 09/15/02	165	6.5	8.0	7.3	100	
09/16/02 - 09/22/02	162	5.9	7.5	7.0	100	
09/23/02 - 09/29/02	168	6.8	8.2	7.5	100	
09/30/02 - 10/06/02	168	7.1	8.1	7.6	100	
10/07/02 - 10/13/02	167	7.4	8.8	8.2	100	
10/14/02 - 10/20/02	168	8.4	9.7	9.1	100	
10/21/02 - 10/27/02	168	9.0	10.0	9.5	100	
10/28/02 - 11/03/02	168	9.4	11.3	10.2	100	
11/04/02 - 11/10/02	168	8.6	11.3	10.0	100	
11/11/02 - 11/17/02	168	7.9	9.9	8.8	100	
11/18/02 - 11/24/02	168	8.5	10.6	9.8	100	
11/25/02 - 12/01/02	168	9.3	11.7	10.8	100	

TABLE AI-8: WEEKLY DO SUMMARY STATISTICS AT CHICAGO RIVER CONTROLLING WORKS ON
THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

TABLE AI-8 (Continued):WEEKLY DO SUMMARY STATISTICS AT CHICAGO RIVER CONTROLLING
WORKS ON THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

Number of	_ DO (Concentration	Percent DO Values	
DO Values	Min	Max	Mean	Above Standard
168	10.7	12.0	11.3	100
168	9.7	11.6	10.8	100
168	10.4	12.2	11.4	100
168	8.7	11.3	10.3	100
48	8.8	10.4	9.6	100
	Number of DO Values 168 168 168 168 168 48	Number of DO Values DO 0 168 10.7 168 9.7 168 10.4 168 8.7 48 8.8	Number of DO Values DO Concentration Min 168 10.7 12.0 168 9.7 11.6 168 10.4 12.2 168 8.7 11.3 48 8.8 10.4	Number of DO Values DO Concentration (mg/L) Min Max Mean 168 10.7 12.0 11.3 168 9.7 11.6 10.8 168 10.4 12.2 11.4 168 8.7 11.3 10.3 48 8.8 10.4 9.6

	Number of	DO (Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
	<u> </u>				
01/01/02 - 01/06/02	109	10.2	12.3	11.0	100
01/07/02 - 01/13/02	168	10.6	11.8	11.1	100
01/14/02 - 01/20/02	168	10.9	13.0	12.0	100
01/21/02 - 01/27/02	168	8.3	13.1	11.1	100
01/28/02 - 02/03/02	168	8.4	12.2	10.8	100
02/04/02 - 02/10/02	35	10.7	12.2	11.8	100
02/11/02 - 02/17/02	108	7.3	9.6	7.9	100
02/18/02 - 02/24/02	168	6.9	11.7	9.2	100
02/25/02 - 03/03/02	168	10.1	11.8	10.7	100
03/04/02 - 03/10/02	168	7.2	12.3	10.0	100
03/11/02 - 03/17/02	167	7.2	10.0	8.4	100
03/18/02 - 03/24/02	168	7.1	11.2	9.4	100
03/25/02 - 03/31/02	168	8.0	11.4	10.6	100
04/01/02 - 04/07/02	168	8.0	11.6	10.8	100
04/08/02 - 04/14/02	167	9.1	12.3	11.1	100
04/15/02 - 04/21/02	168	8.1	11.5	9.8	100
04/22/02 - 04/28/02	168	7.8	10.5	9.2	100
04/29/02 - 05/05/02	168	8.5	10.7	9.9	100
05/06/02 - 05/12/02	168	7.3	10.2	9.2	100
05/13/02 - 05/19/02	168	7.9	9.4	8.9	100
05/20/02 - 05/26/02	168	8.2	10.4	9.7	100
05/27/02 - 06/02/02	168	6.8	10.0	8.9	100
06/03/02 - 06/09/02	168	8.4	10.1	9.4	100
06/10/02 - 06/16/02	168	7.0	10.0	9.0	100
06/17/02 - 06/23/02	168	8.2	10.4	9.7	100
06/24/02 - 06/30/02	168	8.6	11.6	10.3	100
07/01/02 - 07/07/02	168	8.1	12.1	10.5	100
07/08/02 - 07/14/02	168	6.1	9.4	8.1	100
07/15/02 - 07/21/02	166	6.5	8.6	8.0	100
07/22/02 - 07/28/02	168	6.1	8.3	7.1	100
07/29/02 - 08/04/02	168	5.9	7.7	7.0	100
08/05/02 - 08/11/02	168	6.8	7.7	7.2	100
08/12/02 - 08/18/02	168	6.5	8.5	7.1	100
08/19/02 - 08/25/02	168	2.0	9.2	7.3	85
08/26/02 - 09/01/02	168	7.5	9.1	8.3	100
09/02/02 - 09/08/02	168	6.3	7.7	6.9	100
09/09/02 - 09/15/02	168	6.3	7.9	7.3	100
09/16/02 - 09/22/02	168	6.7	7.4	7.1	100
09/23/02 - 09/29/02	168	6.8	7.8	7.3	100
09/30/02 - 10/06/02	168	7.0	7.9	7.5	100
10/07/02 - 10/13/02	168	7.5	8.8	8.2	100
10/14/02 - 10/20/02	168	8.6	9.6	9.1	100
10/21/02 - 10/27/02	168	8.8	9.8	9.3	100
10/28/02 - 11/03/02	168	8.6	10.9	9.7	100
11/04/02 - 11/10/02	168	8.6	10.9	9.7	100
11/11/02 - 11/17/02	168	7.6	8.9	8.4	100
11/18/02 - 11/24/02	168	8.6	10.0	9.4	100
11/25/02 - 12/01/02	168	8.9	10.0	9.7	100

TABLE AI-9: WEEKLY DO SUMMARY STATISTICS AT MICHIGAN AVENUE ON THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

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Monitoring Dates	Number of	DO	Concentration	Percent DO Values	
	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	9.7	11.9	10.9	100
12/09/02 - 12/15/02	168	7.2	11.4	9.1	100
12/16/02 - 12/22/02	168	7.4	12.2	9.1	100
12/23/02 - 12/29/02	168	7.4	10.6	9.1	100
12/30/02 - 12/31/02	48	8.3	. 9.9	9.1	100

TABLE AI-9 (Continued): WEEKLY DO SUMMARY STATISTICS AT MICHIGAN AVENUE ON THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	Number of DO Conce		(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 01/05/02	25	11.4	12.0	12.4	100
01/01/02 - 01/00/02	33	11.4	13.2	12.4	100
01/07/02 - 01/13/02	108	8.1	12.0	9.3	100
01/14/02 - 01/20/02	108	11.0	12.7	11.5	100
01/21/02 - 01/27/02	168	7.0	12.8	9.4	100
01/28/02 - 02/03/02	168	7.3	11.6	9.3	100
02/04/02 - 02/10/02	168	5.7	11.7	7.7	100
02/11/02 - 02/17/02	167	6.6	8.0	7.4	100
02/18/02 - 02/24/02	108	6.1	8.0	7.1	100
02/25/02 - 03/03/02	168	6.4	11.8	9.2	100
03/04/02 - 03/10/02	168	6.3	12.0	9.2	100
03/11/02 - 03/17/02	168	5.6	8.9	7.4	100
03/18/02 - 03/24/02	168	5.8	10.5	7.6	100
03/25/02 - 03/31/02	168	6.8	11.3	9.2	100
04/01/02 - 04/07/02	168	7.1	12.1	9.7	100
04/08/02 - 04/14/02	167	6.8	12.2	9.4	100
04/15/02 - 04/21/02	168	6.1	10.7	8.5	100
04/22/02 - 04/28/02	168	5.5	10.5	8.3	100
04/29/02 - 05/05/02	168	7.4	10.0	8.9	100
05/06/02 - 05/12/02	168	5.5	9.1	7.5	100
05/13/02 - 05/19/02	168	6.7	8.8	7.9	100
05/20/02 - 05/26/02	168	7.1	10.2	8.6	100
05/27/02 - 06/02/02	168	5.9	9.8	8.2	100
06/03/02 - 06/09/02	167	7.2	10.5	9.0	100
06/10/02 - 06/16/02	168	4.9	9.6	8.1	99
06/17/02 - 06/23/02	168	8.0	9.9	9.3	100
06/24/02 - 06/30/02	168	7.9	11.0	9.9	100
07/01/02 - 07/07/02	168	8.5	11.7	10.3	100
07/08/02 - 07/14/02	168	6.1	8.8	7.9	100
07/15/02 - 07/21/02	168	5.7	7.9	7.2	100
07/22/02 - 07/28/02	167	5.5	7.5	6.7	100
07/29/02 - 08/04/02	168	5.4	7.7	6.9	100
08/05/02 - 08/11/02	168	6.6	7.8	7.1	100
08/12/02 - 08/18/02	168	6.3	7.9	6.9	100
08/19/02 - 08/25/02	168	2.6	9.0	7.0	80
08/26/02 - 09/01/02	168	7.3	8.7	8.1	100
09/02/02 - 09/08/02	168	5.8	7.8	6.7	100
09/09/02 - 09/15/02	168	5.5	7.9	7.1	100
09/16/02 - 09/22/02	168	6.2	7.4	6.8	100
09/23/02 - 09/29/02	168	6.3	7.9	7.1	100
09/30/02 - 10/06/02	168	6.2	7.8	7.3	100
10/07/02 - 10/13/02	168	7.1	8.7	8.0	100
10/14/02 - 10/20/02	168	8.2	9.4	8.8	100
10/21/02 - 10/27/02	168	7.0	9.6	8.3	100
10/28/02 - 11/03/02	168	6.4	10.0	8.3	100
11/04/02 - 11/10/02	168	6.3	9.4	7. 9	100
11/11/02 - 11/17/02	168	6.1	7.9	7.0	100
11/18/02 - 11/24/02	168	5.8	9.5	8.2	100
11/25/02 - 12/01/02	168	7.6	9.7	8.7	100

TABLE AI-10:WEEKLY DO SUMMARY STATISTICS AT CLARK STREET ON THE CHICAGO RIVER
FROM JANUARY 2002 THROUGH DECEMBER 2002

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TABLE AI-10 (Continued): WEEKLY DO SUMMARY STATISTICS AT CLARK STREET ON THE CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

Monitoring Dates	Number of	DO (Concentration	Percent DO Values	
	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	7.7	10.1	9.1	100
12/09/02 - 12/15/02	168	6.5	9.2	7.3	100
12/16/02 - 12/22/02	168	6.1	10.0	7.2	100
12/23/02 - 12/29/02	168	6.3	9.5	7.3	100
12/30/02 - 12/31/02	48	6.2	8.9	7.8	100

TABLE AI-11: WEEKLY DO SUMMARY STATISTICS AT JACKSON BOULEVARD ON THE SOUTHBRANCH CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

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	Number of	Number of DO C		(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 01/02/02	144			- ·	
01/01/02 - 01/06/02	144	6.3	9.0	7.4	100
01/0//02 - 01/13/02	168	5.2	7.2	6.2	100
01/14/02 - 01/20/02	168	4.8	8.1	6.3	100
01/21/02 - 01/2//02	168	4.7	9.3	6.3	100
01/28/02 - 02/03/02	168	5.0	10.8	6.5	100
02/04/02 - 02/10/02	168	5.1	9.7	6.7	100
02/11/02 - 02/17/02	168	5.8	8.0	6.9	100
02/18/02 - 02/24/02	168	5.1	7.7	6.3	100
02/25/02 - 03/03/02	168	4.5	8.6	6.1	100
03/04/02 - 03/10/02	168	5.2	10.3	7.5	100
03/11/02 - 03/17/02	168	4.0	9.8	6.2	100
03/18/02 - 03/24/02	168	3.3	7.3	5.3	95
03/25/02 - 03/31/02	168	3.2	6.7	4.9	89
04/01/02 - 04/07/02	168	3.7	7.4	5.4	96
04/08/02 - 04/14/02	167	3.0	7.5	5.6	89
04/15/02 - 04/21/02	168	2.2	7.7	4.7	77
04/22/02 - 04/28/02	168	3.9	9.3	5.9	99
04/29/02 - 05/05/02	168	3.6	7.1	5.5	98
05/06/02 - 05/12/02	168	3.4	6.4	5.1	95
05/13/02 - 05/19/02	168	1.9	8.1	6.1	93
05/20/02 - 05/26/02	168	2.5	9.3	4.8	77
05/27/02 - 06/02/02	168	2.9	7.0	5.2	91
06/03/02 - 06/09/02	168	3.5	8.6	5.5	94
06/10/02 - 06/16/02	168	1.1	5.5	3.2	26
06/17/02 - 06/23/02	167	2.3	6.9	4.7	74
06/24/02 - 06/30/02	168	2.6	7.8	4.9	77
07/01/02 - 07/07/02	168	2.4	7.5	5.9	96
07/08/02 - 07/14/02	168	0.6	5.9	4.0	59
07/15/02 - 07/21/02	168	2.5	5.6	4.2	59
07/22/02 - 07/28/02	168	2.5	5.6	4.4	79
07/29/02 - 08/04/02	168	2.4	6.6	4.9	85
08/05/02 - 08/11/02	168	2.7	6.3	5.6	99
08/12/02 - 08/18/02	168	3.2	6.8	5.5	95
08/19/02 - 08/25/02	168	3.2	7.4	5.8	91
08/26/02 - 09/01/02	168	5.1	7.1	6.2	100
09/02/02 - 09/08/02	168	3.6	7.0	5.4	97
09/09/02 - 09/15/02	168	4.0	5.9	5.2	100
09/16/02 - 09/22/02	167	3.5	6.1	5.2	96
09/23/02 - 09/29/02	168	4.8	6.8	5.9	100
09/30/02 - 10/06/02	168	3.1	7.0	5.9	92
10/07/02 - 10/13/02	168	4.9	7.2	6.2	100
10/14/02 - 10/20/02	168	5.6	7.9	6.9	100
10/21/02 - 10/27/02	168	5.5	8.7	7.0	100
10/28/02 - 11/03/02	168	4.9	8.0	6.5	100
11/04/02 - 11/10/02	168	5.0	7.6	6.3	100
11/11/02 - 11/17/02	168	4.9	6.8	5.9	100
11/18/02 - 11/24/02	168	5.2	7.6	6.4	100
11/25/02 - 12/01/02	168	5.5	8.0	6.9	100

TABLE AI-11 (Continued):WEEKLY DO SUMMARY STATISTICS AT JACKSON BOULEVARD ON THE
SOUTH BRANCH CHICAGO RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

Number of	DO (Concentration	Percent DO Values	
DO Values	Min	Max	Mean	Above Standard
	· · · ·			
168	5.1	9.4	7.1	100
168	6.2	7.7	6.8	100
168	4.1	8.3	6.8	100
168	6.3	8.3	7.2	100
48	5.8	8.2	7.0	100
	Number of DO Values 168 168 168 168 48	Number of DO Values DO 0 168 5.1 168 6.2 168 4.1 168 6.3 48 5.8	Number of DO Values DO Concentration Min 168 5.1 9.4 168 6.2 7.7 168 4.1 8.3 168 6.3 8.3 48 5.8 8.2	Number of DO Values DO Concentration (mg/L) 168 5.1 9.4 7.1 168 6.2 7.7 6.8 168 4.1 8.3 6.8 168 6.3 8.3 7.2 48 5.8 8.2 7.0

	Number of	DO Concentration (mg/L)			Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
· · · · · · · · · · · · · · · · · · ·			······	****	
01/01/02 - 01/06/02			NO DATA		
01/07/02 - 01/13/02			NO DATA		
01/14/02 - 01/20/02			NO DATA		
01/21/02 - 01/27/02			NO DATA		
01/28/02 - 02/03/02	•		NO DATA		
02/04/02 - 02/10/02			NO DATA		
02/11/02 - 02/17/02			NO DATA		
02/18/02 - 02/24/02			NO DATA		
02/25/02 - 03/03/02			NO DATA		
03/04/02 - 03/10/02			NO DATA		
03/11/02 - 03/17/02			NO DATA		
03/18/02 - 03/24/02			NO DATA		
03/25/02 - 03/31/02			NO DATA		
04/01/02 - 04/07/02			NO DATA		
04/08/02 - 04/14/02			NO DATA		
04/15/02 - 04/21/02			NO DATA		
04/22/02 - 04/28/02	134	1.5	7.6	4.0	46
04/29/02 - 05/05/02	168	3.1	10.8	4.9	79
05/06/02 - 05/12/02	168	4.0	9.4	6.3	100
05/13/02 - 05/19/02	168	0.2	5.0	1.4	3
05/20/02 - 05/26/02	168	0.3	5.3	1.4	5
05/27/02 - 06/02/02	168	1.0	8.0	3.3	25
06/03/02 - 06/09/02	168	0.0	4.5	0.5	1
06/10/02 - 06/16/02	168	0.0	1.0	0.0	0
06/17/02 - 06/23/02	168	0.0	10.3	1.7	14
06/24/02 - 06/30/02	168	0.3	4.4	2.6	4
07/01/02 - 07/07/02	168	2.1	5.9	4.5	74
07/08/02 - 07/14/02	168	0.2	5.1	1.6	18
07/15/02 - 07/21/02	167	2.2	4.8	3.6	31
07/22/02 - 07/28/02	167	0.6	4.4	3.1	9
07/29/02 - 08/04/02	168	0.8	7.1	3.5	29
08/05/02 - 08/11/02	168	1.4	6.3	3.9	53
08/12/02 - 08/18/02	168	2.2	6.4	3.9	46
08/19/02 - 08/25/02	168	0.3	6.6	2.5	26
08/26/02 - 09/01/02	167	0.4	6.3	3.3	38
09/02/02 - 09/08/02	168	1.7	5.3	3.6	36
09/09/02 - 09/15/02	168	1.3	5.1	3.8	42
09/16/02 - 09/22/02	168	2.4	5.3	3.9	43
09/23/02 - 09/29/02	168	2.3	5.9	4.5	83
09/30/02 - 10/06/02	168	0.0	6.1	3.3	56
10/07/02 - 10/13/02	168	0.0	4.7	1.6	4
10/14/02 - 10/20/02	168	0.0	5.6	2.4	21
10/21/02 - 10/27/02	168	3.3	6.3	5.2	85
10/28/02 - 11/03/02	168	4.7	6.4	5.4	100
11/04/02 - 11/10/02	168	5.8	7.0	6.4	100
11/11/02 - 11/17/02	168	5.0	6.5	5.7	100
11/18/02 - 11/24/02	168	4.9	6.5	5.7	100
11/25/02 - 12/01/02	168	5.0	6.4	5.6	100

TABLE AI-12: WEEKLY DO SUMMARY STATISTICS AT INTERSTATE HIGHWAY 55 ON BUBBLYCREEK FROM JANUARY 2002 THROUGH DECEMBER 2002

TABLE AI-12 (Continued):WEEKLY DO SUMMARY STATISTICS AT INTERSTATE HIGHWAY 55 ON
BUBBLY CREEK FROM JANUARY 2002 THROUGH DECEMBER 2002

Monitoring Dates	Number of	DO (Concentration	Percent DO Values	
	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	5.7	7.0	62	100
12/09/02 - 12/15/02	168	4.8	6.6	5.7	100
12/16/02 - 12/22/02	168	5.8	8.2	6.8	100
12/23/02 - 12/29/02	168	6.0	8.0	7.2	100
12/30/02 - 12/31/02	48	6.3	7.0	6.5	100

	Number of	D0	Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
				·	
01/01/02 - 01/06/02			ΝΟ ΠΑΤΑ		
01/07/02 - 01/13/02			NODATA		
01/14/02 - 01/20/02			ΝΟ ΠΑΤΑ		
01/21/02 - 01/27/02			ΝΟ ΠΑΤΑ		
01/28/02 - 02/03/02			NODATA		,
02/04/02 = 02/10/02			NODATA		
02/04/02 = 02/17/02			NODATA		
02/18/02 = 02/24/02			NODATA		
02/16/02 = 02/24/02			NODATA		
02/23/02 = 03/03/02			NODATA		
03/04/02 - 03/10/02			NODATA		
03/11/02 - 03/17/02			NO DATA		
03/18/02 - 03/24/02		•	NODATA		
03/23/02 - 03/31/02			NODATA		
04/01/02 - 04/07/02			NODATA		
04/08/02 - 04/14/02			NODATA		
04/15/02 - 04/21/02			NO DATA		
04/22/02 - 04/28/02			NO DATA		
04/29/02 - 05/05/02			NO DATA		
05/06/02 - 05/12/02			NO DATA		
05/13/02 - 05/19/02			NO DATA		
05/20/02 - 05/26/02			NO DATA		
05/27/02 - 06/02/02			NO DATA		
06/03/02 - 06/09/02			NO DATA		
06/10/02 - 06/16/02			NO DATA		
06/17/02 - 06/23/02			NO DATA		
06/24/02 - 06/30/02	107	0.2	1.2	0.3	0
07/01/02 - 07/07/02	168	0.0	3.2	0.9	0
07/08/02 - 07/14/02	168	0.0	3.9	0.7	0
07/15/02 - 07/21/02	168	0.0	10.7	4.5	60
07/22/02 - 07/28/02	168	0.4	8.1	2.5	15
07/29/02 - 08/04/02	168	0.1	9.7	3.7	41
08/05/02 - 08/11/02	168	0.0	7.8	3.1	38
08/12/02 - 08/18/02	168	2.7	7.3	4.7	70
08/19/02 - 08/25/02	61	1.7	5.7	3.8	44
08/26/02 - 09/01/02			NO DATA		
09/02/02 - 09/08/02	106	1.1	4.3	2.2	5
09/09/02 - 09/15/02	62	0.7	4.1	1.9	3
09/16/02 - 09/22/02	107	3.1	8.2	4.9	70
09/23/02 - 09/29/02	167	2.8	8.4	4.4	63
09/30/02 - 10/06/02	147	0.0	4.6	2.8	14
10/07/02 - 10/13/02	108	0.0	0.8	0.0	0
10/14/02 - 10/20/02	168	0.0	10.4	2.7	27
10/21/02 - 10/27/02	168	4.0	13.4	8.0	100
10/28/02 - 11/03/02	168	4.3	11.0	6.4	100
11/04/02 - 11/10/02	168	9.3	14.3	11.8	100
11/11/02 - 11/17/02	168	8.2	12.6	10.0	100
11/18/02 - 11/24/02	168	6.8	9.7	7.9	100
11/25/02 - 12/01/02	168	5.1	7.4	6.4	100

TABLE AI-13: WEEKLY DO SUMMARY STATISTICS AT 36th STREET ON BUBBLY CREEK FROM JUNE2002 THROUGH DECEMBER 2002

Percent DO Values Above Standard	DO Concentration (mg/L)			Number of		
	Mean	Max	Min	DO Values	Monitoring Dates	
66	66	4.5	6.2	3.1	168	12/02/02 - 12/08/02
0	0	3.1	3.9	2.2	168	12/09/02 - 12/15/02
98	. 98	5.8	7.5	3.9	168	12/16/02 - 12/22/02
100	100	6.7	7.9	5.8	168	12/23/02 - 12/29/02
100	100	6.4	7.2	5.9	48	12/30/02 - 12/31/02
		6.7 6.4	7.9 7.2	5.8 5.9	168 48	12/23/02 - 12/29/02 12/30/02 - 12/31/02

TABLE AI-13 (Continued):WEEKLY DO SUMMARY STATISTICS AT 36th STREET ON BUBBLY CREEK
FROM JUNE 2002 THROUGH DECEMBER 2002

TABLE AI-14: WEEKLY DO SUMMARY STATISTICS AT CICERO AVENUE ON THE CHICAGO SANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

Monitoring Dates	Number of DO Values	DO Concentration (mg/L)			Percent DO Values		
		Min	Max	Mean	Above Standard		
01/01/02 - 01/06/02	143	6.8	7.4	7.1	100		
01/07/02 - 01/13/02	168	5.6	77	6.5	100		
01/14/02 - 01/20/02	168	5.0	60	5.6	100		
01/21/02 = 01/27/02	168	5.5	6.8	61	100		
01/21/02 = 01/27/02	167	5.5	6.0	61	100		
01/28/02 - 02/03/02	168	5.5	- 76	6.5	100		
02/04/02 - 02/10/02	100	5.7	7.0	0.5	100		
02/11/02 - 02/11/02	100	0.5	7.7	7.0	100		
02/18/02 - 02/24/02	100	5.5	7.7	0.9	100		
02/25/02 = 03/03/02	108	5.9	/.8	0.9	100		
03/04/02 - 03/10/02	168	5.9	8.9	7.3	100		
03/11/02 - 03/17/02	168	6.1	8.6	7.5	100		
03/18/02 - 03/24/02	168	5.6	7.1	6.3	100		
03/25/02 - 03/31/02	168	4.7	6.9	5.8	100		
04/01/02 - 04/07/02	168	4.1	6.0	5.1	100		
04/08/02 - 04/14/02	167	3.2	6.8	5.4	95		
04/15/02 - 04/21/02	168	4.2	7.3	5.4	100		
04/22/02 - 04/28/02	168	3.3	5.8	4.9	89		
04/29/02 - 05/05/02	168	4.1	7.1	5.4	100		
05/06/02 - 05/12/02	168	3.3	6.8	5.4	98		
05/13/02 - 05/19/02	168	0.3	6.5	4.5	65		
05/20/02 - 05/26/02	168	3.7	5.4	4.4	90		
05/27/02 - 06/02/02	168	2.0	6.1	4.3	55		
06/03/02 - 06/09/02	168	1.5	7.0	4.6	74		
06/10/02 - 06/16/02	168	0.0	5.2	2.1	14		
06/17/02 - 06/23/02	34	0.8	2.5	1.5	0		
06/24/02 - 06/30/02	78	3.8	5.8	5.1	99		
07/01/02 - 07/07/02	124	4.3	5.5	4.8	100		
07/08/02 - 07/14/02	168	0.9	5.2	3.3	35		
07/15/02 - 07/21/02	168	3.0	5.4	4.1	57		
07/22/02 - 07/28/02	34	4.4	5.7	5.0	100		
07/29/02 - 08/04/02	126	4.2	5.8	5.1	100		
08/05/02 - 08/11/02	168	3.8	5.8	4.8	98		
08/12/02 - 08/18/02	168	3.2	5 5	44	71		
08/19/02 = 08/25/02	168	0.2	67	3.8	57		
08/26/02 - 09/01/02	168	37	59	51	91		
09/02/02 = 09/08/02	168	24	54	4 1	54		
09/02/02 = 09/03/02	168	2.4	4 7	37	26		
09/09/02 = 09/13/02	167	1.4	4.7	3.6	16		
09/10/02 - 09/22/02	167	2.4	4.5	3.0	10		
09/20/02 = 09/29/02	168	2.4		J. 4	15		
10/07/02 = 10/10/02	100	0.4	5.7	4.0	67		
10/07/02 - 10/15/02	100	1.5	6.1	4.5	07		
10/14/02 - 10/20/02	108	3. 9 4 7	0.2	J.4 5 A	3 9		
10/21/02 - 10/27/02	22	4.3		5.4	100		
10/28/02 - 11/03/02	100						
11/04/02 - 11/10/02	133	4.8	0.0	5.9	100		
11/11/02 - 11/17/02	168	5.1	6.4	5./	100		
11/18/02 - 11/24/02	16/	4.3	0.3	5.4	100		
11/25/02 - 12/01/02	168	4.9	/.1	D ./	100		

TABLE AI-14 (Continued): WEEKLY DO SUMMARY STATISTICS AT CICERO AVENUE ON THE CHICAGO SANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of DO Values	DO Concentration (mg/L)			Percent DO Values
Monitoring Dates		Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	6.0	71	6.5	100
12/09/02 - 12/15/02	168	5.8	6.7	6.3	100
12/16/02 - 12/22/02	168	5.7	7.9	6.7	100
12/23/02 - 12/29/02	168	2.8	7.4	5.6	82
12/30/02 - 12/31/02	48	5.7	6.2	6.0	100

TABLE AI-15: WEEKLY DO SUMMARY STATISTICS AT B&O CENTRAL RAILROAD ON THE CHICAGOSANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

Monitoring Dates	Number of DO Values	DO Concentration (mg/L)			Percent DO Values
		Min	Max	Mean	Above Standard
01/01/02 - 01/06/02	144	7.0	85	8.0	100
01/07/02 - 01/13/02	168	64	85	7.6	100
01/14/02 - 01/20/02	168	6.0	7.7	6.9	100
01/21/02 - 01/27/02	168	5.4	77	65	100
01/28/02 - 02/03/02	168	5.9	7.7	67	100
02/04/02 - 02/10/02	168	6.6	82	73	100
02/11/02 - 02/17/02	168	6.5	85	7.5	100
02/18/02 - 02/24/02	168	6.6	82	7.0	100
02/25/02 - 03/03/02	168	5.5	0.2 7 7	67	100
03/04/02 - 03/10/02	168	63	8.8	0.7 7 A	100
03/11/02 - 03/17/02	168	6.6	8.6	7.4	100
03/18/02 - 03/24/02	168	53	3.0 7.2	65	100
03/25/02 - 03/31/02	168	4.5	7.2	0.5	100
04/01/02 = 04/07/02	168	43	7.0	6.4	100
04/08/02 - 04/14/02	167	5.4	7.7 8.5	6.0	100
04/15/02 - 04/21/02	168	2.4	3.J 7 0	0.9	100
04/22/02 - 04/28/02	168	2.2	7.9	5.7	97
04/29/02 = 05/05/02	168	2.0	7.0 7.7	5.5	83 100
05/06/02 = 05/05/02	168	4.4	7.7	0.1	100
05/13/02 - 05/12/02	168	4.0	7.1	6.0 5 7	100
05/20/02 - 05/26/02	168	2.0	7.1	5.1	99
05/27/02 - 05/20/02	168	3.7	1.2	5.8	99
05/27/02 = 06/02/02	168	3.0	0.0	5.2	95
06/10/02 = 06/16/02	168	J.9 1 0	0.9	3.3	99 57
06/17/02 - 06/23/02	168	1.2	0.0	4.5	20
06/24/02 = 06/30/02	168	3.0	0.5	4.0	83
07/01/02 = 07/07/02	168	3.5	J.9 70	4.4	81
07/08/02 - 07/14/02	168	3.7	7.0	5.9	95
07/15/02 - 07/21/02	168	3.7	7.1	J.4	90
07/22/02 = 07/28/02	168	3.2	0.0	4./	83
07/29/02 = 08/04/02	168	J.0 1.0	5.2	4.5	99
07/29/02 = 08/04/02	169	1.9	5.5	4.3	/4
08/03/02 - 08/11/02	100	4.5	5.7	5.0	100
08/12/02 = 08/18/02	108	4.5	0.0	5.5	100
08/26/02 = 08/25/02	100	1.0	6.2	4.7	/8
08/20/02 = 09/01/02	100	5.7	0.3	5.4	99
09/02/02 = 09/08/02	100	4.0	0.2	5.5	100
09/09/02 - 09/13/02	100	2.0	0.2	5.1	95
09/10/02 = 09/22/02	100	3.0 2.5	5.9	5.0	96
09/20/02 = 09/29/02	100	2.5	0.4	5.1	98
10/07/02 = 10/00/02	100	3.0	0.5	5.5	93
10/07/02 = 10/15/02 10/14/02 = 10/20/02	100	J./ 55	6.0	5.2	98
10/21/02 = 10/20/02	100	5.5	0.9	0.3	100
10/22/02 - 10/2//02	100	J.J 4 1	7.U 7.C	0.4	100
10/26/02 = 11/05/02 11/04/02 = 11/10/02	108	0.1	7.0	0.9	100
11/04/02 = 11/10/02 11/11/02 = 11/17/02	108	0.0	1.8	1.3	100
11/11/02 = 11/17/02 11/18/02 = 11/28/02	100	0.0	7.0 7 0	7.U 7.0	100
11/25/02 = 11/24/02	167	0.2 7 0	/.0 Q /	7.0 7 7	100
	101	/.0	0.4	1.1	100
TABLE AI-15 (Continued): WEEKLY DO SUMMARY STATISTICS AT B&O CENTRAL RAILROAD ON THE CHICAGO SANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

Monitoring Dates	Number of	DO (Concentration	Percent DO Values	
	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	7.6	8.7	8.2	100
12/09/02 - 12/15/02	168	6.7	8.4	7.7	100
12/16/02 - 12/22/02	168	7.2	9.5	8.3	100
12/23/02 - 12/29/02	168	6.4	9.5	8.2	100
12/30/02 - 12/31/02	48	7.3	8.5	8.0	100
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TABLE AI-16: WEEKLY DO SUMMARY STATISTICS AT ROUTE 83 ON THE CHICAGO SANITARY AND
SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

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	Number of	DO (Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 - 01/06/02	144	7.4	8.3	7.8	100
01/07/02 - 01/13/02	168	6.7	8.2	7.5	100
01/14/02 - 01/20/02	167	5.5	· 70	64	100
01/21/02 - 01/27/02	168	5 5	73	6.4	100
01/28/02 - 02/03/02	168	6.0	7.2	6.5	100
02/04/02 - 02/10/02	168	6.4	7.9	7.0	100
02/11/02 - 02/17/02	168	6.0	81	67	100
02/18/02 - 02/24/02	168	57	75	6.8	100
02/25/02 - 03/03/02	168	61	77	6.8	100
03/04/02 - 03/10/02	82	6.0	8.1	7.0	100
03/11/02 - 03/17/02	81	63	6.9	65	100
03/18/02 - 03/24/02	168	51	6.6	5.9	100
03/25/02 - 03/31/02	168	49	6.5	50	100
04/01/02 - 04/07/02	82	51	6.8	60	100
04/08/02 = 04/14/02	86	4.0	63	5.5	100
04/05/02 = 04/14/02	168	3.6	6.5	5.1	04
04/22/02 - 04/28/02	168	3.0	67	5.1	03
04/29/02 = 05/05/02	168	J.0 4 4	6.6	53	100
05/06/02 - 05/12/02	168	43	63	53	100
05/13/02 = 05/12/02	85	31	5.9	J.J 4 5	67
05/20/02 - 05/26/02	109	4.2	6.2	4.J 5.4	100
05/27/02 = 06/02/02	83	4.2	5.1	J. 4 17	100
05/27/02 = 06/02/02	85	33	53	4.7	50
06/10/02 = 06/16/02	168	0.1	50	4.5	25
06/17/02 = 06/23/02	168	2.0	5.6	3.2	20
06/24/02 = 06/20/02	168	1.0	J.0 4.8	3.7	42
07/01/02 = 07/07/02	50	1.5	4.0	3.2	1/
07/08/02 = 07/14/02	83	1.0	5.5	2.0	0
07/15/02 = 07/21/02	168	2.2	4.0	2.0	1
07/22/02 = 07/21/02	168	2.0	4.0	3.4	2
07/29/02 = 07/28/02	168	2.4	3.0	3.5	5
08/05/02 = 08/11/02	168	2.4	J. J	3.0	61
08/12/02 = 08/18/02	90	2.7	4 .0 5 1	4.0	76
08/12/02 = 08/16/02	70	5.5		4.4	70
08/26/02 = 09/01/02			NODATA		
09/02/02 = 09/08/02	85	3.0	55	18	00
09/09/02 = 09/15/02	168	31	5.0	4.0	50 ····
09/16/02 = 09/15/02	168	20	4.6	3.0	25
09/23/02 = 09/22/02	168	2.2	51	J. J	33 70
09/30/02 = 10/06/02	55	1 A	5.5	5.0	100
10/07/02 - 10/13/02	83	34	47	J.0 4.0	100
10/14/02 - 10/20/02	168	2. 4 4 0	- 1 .7 6 1		45
10/21/02 - 10/27/02	168	4.0	6.0	55	100
10/28/02 - 11/03/02	168	4 5	67	5.5	100
11/04/02 - 11/10/02	168	57	60	6.4	100
11/11/02 - 11/17/02	168	4 R	6.9	62	100
11/18/02 - 11/24/02	168	4.8	74	63	100
11/25/02 - 12/01/02	168	6.4	8.1	7.2	100

TABLE AI-16 (Continued):WEEKLY DO SUMMARY STATISTICS AT ROUTE 83 ON THE CHICAGO
SANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

Monitoring Dates	Number of	DO	Concentration	Percent DO Values	
	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	7.2	8.3	7.8	100
12/09/02 - 12/15/02	168	6.1	7.8	7.1	100
12/16/02 - 12/22/02	168	6.2	8.3	7.1	100
12/23/02 - 12/29/02	168	5.4	8.7	7.4	100
12/30/02 - 12/31/02	48	6.6	7.8	7.2	100

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TABLE AI-17: WEEKLY DO SUMMARY STATISTICS AT RIVER MILE 302.6 ON THE CHICAGOSANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO	Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 - 01/06/02	144	7.2	87	79	100
01/07/02 - 01/13/02	168	7.0	8.6	7.9	100
01/14/02 - 01/20/02	168	6.4	7.6	7.0	100
01/21/02 - 01/27/02	167	61	7.0	7.2	100
01/28/02 - 02/03/02	168	6.5	8.1	7.3	100
02/04/02 - 02/10/02	168	71	- 87	82	100
02/11/02 - 02/17/02	168	73	87	81	100
02/18/02 - 02/24/02	167	7.0	8.6	77	100
02/25/02 - 03/03/02	168	6.5	8.0 8.1	7.7	100
03/04/02 = 03/10/02	168	67	0.1	7.5	100
03/11/02 = 03/17/02	168	6.0	9.5	0.J 7 7	100
03/18/02 - 03/24/02	168	6.2	9.0 7 A	1.1	100
03/25/02 - 03/24/02	168	6.2	7.4	0.8	100
04/01/02 - 04/07/02	168	5.8	7. 9 80	7.1	100
04/08/02 = 04/14/02	167	5.0	8.0	7.0	100
04/15/02 = 04/21/02	168	J.J 4 5	6.0 6.6	0.0	100
04/13/02 = 04/21/02	160	4.5	0.0	5.7	100
04/22/02 = 04/28/02	169	4.2	0.0	5.9	100
05/06/02 05/12/02	169	4.0	7.1	6.0	100
05/10/02 - 05/12/02	160	J.4	7.7	5.0	100
05/15/02 - 05/19/02	108	4.4	1.1	5.9	100
05/20/02 - 05/20/02	100	4.7	0.0	5.9	100
03/27/02 - 00/02/02	108	3.2	0.U	4.7	/3
06/03/02 - 06/09/02	108	2.0	5.2	4.0	4/
06/10/02 - 06/10/02	107	0.5	. 5.2	3.1	27
06/17/02 - 06/23/02	108	1.9	6.4	4.3	/0
06/24/02 - 06/30/02	108	2.4	0.4	4.0	50
07/01/02 - 07/07/02	00	1.7		2.3	0
07/08/02 - 07/14/02			NO DATA		
07/15/02 - 07/21/02	05	27	NODATA	4.2	00
07/22/02 - 07/28/02	80	3.7	5.0	4.3	82
0//29/02 - 08/04/02	108	2.7	5.7	4.4	/8
08/05/02 - 08/11/02	108	3.1	5.9	4.5	88
08/12/02 - 08/18/02	87	3.0		4.5	85
08/19/02 - 08/25/02	04	4.0	NODATA	E	100
08/26/02 - 09/01/02	84	4.9	6.2	5.5	100
09/02/02 - 09/08/02	168	3.1	6.9	5.5	92
09/09/02 - 09/15/02	168	4.2	7.0	5.6	100
09/16/02 - 09/22/02	168	4.0	5.3	4.5	99
09/23/02 - 09/29/02	168	3.9	5.2	4.6	97
09/30/02 - 10/06/02	168	2.7	5.7	4.8	. 88
10/0 //02 - 10/13/02	168	3.7	5.4	4.5	90
10/14/02 - 10/20/02	168	4.8	6.6	5.7	100
10/21/02 - 10/27/02	168	5.5	6.6	6.1	100
10/28/02 - 11/03/02	168	5.4	7.2	6.4	100
11/04/02 - 11/10/02	168	5.9	7.6	6.8	100
11/11/02 - 11/17/02	168	6.1	7.8	6.6	100
11/18/02 - 11/24/02	168	5.7	6.8	6.4	100
11/25/02 - 12/01/02	168	6.1	7.9	7.0	100

TABLE AI-17 (Continued):WEEKLY DO SUMMARY STATISTICS AT RIVER MILE 302.6 ON THE
CHICAGO SANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO (Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	7.3	8.5	7.8	100
12/09/02 - 12/15/02	168	6.5	8.2	7.5	100
12/16/02 - 12/22/02	168	6.1	8.4	7.3	100
12/23/02 - 12/29/02	168	6.6	8.2	7.6	100
12/30/02 - 12/31/02	48	7.7	8.6	8.1	100

TABLE AI-18: WEEKLY DO SUMMARY STATISTICS AT ROMEOVILLE ROAD ON THE CHICAGOSANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO	Concentration	(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 - 01/06/02	144	7.8	9.1	8.4	100
01/07/02 - 01/13/02	168	7.2	8.9	8.2	100
01/14/02 - 01/20/02	168	6.6	7.5	7.1	100
01/21/02 - 01/27/02	168	6.5	7.5	7.0	100
01/28/02 - 02/03/02	168	6.4	7.3	7.0	100
02/04/02 - 02/10/02	168	6.7	8.2	7.6	100
02/11/02 - 02/17/02	167	7.3	8.5	7.9	100
02/18/02 - 02/24/02	168	7.1	87	7.8	100
02/25/02 - 03/03/02	168	6.7	7.8	7.3	100
03/04/02 - 03/10/02	168	6.8	9.1	8.0	100
03/11/02 - 03/17/02	168	6.5	89	7.6	100
03/18/02 - 03/24/02	168	6.2	6.8	6.5	100
03/25/02 - 03/31/02	168	5.9	71	67	100
04/01/02 - 04/07/02	168	5.5	7.2	63	100
04/08/02 - 04/14/02	167	53	73	6.0	100
04/15/02 - 04/21/02	168	44	63	55	100
04/22/02 - 04/28/02	168	4 5	6.2	5.6	100
04/29/02 - 05/05/02	168	4.5	67	5.8	100
05/06/02 - 05/12/02	168	4.5	6.7	5.8	100
05/13/02 - 05/12/02	168	4.7	6.5	57	100
05/20/02 - 05/26/02	168	4.0	6.1	5.6	100
05/27/02 - 06/02/02	168	3.8	5.2	J.U A A	05
06/03/02 - 06/09/02	168	34	5.1	40	25 40
06/10/02 - 06/16/02	168	1.2	53	31	30
06/17/02 - 06/23/02	168	2.5	54	3.6	20
06/24/02 - 06/30/02	168	2.5	5.5	37	40
07/01/02 - 07/07/02	167	2.0	3.6	2.8	40
07/08/02 - 07/14/02	168	17	3.6	2.0	0
07/15/02 - 07/21/02	168	2.7	5.0	3.9	31
07/22/02 - 07/28/02	168	2.6	4.2	33	10
07/29/02 - 08/04/02	168	3.0	47	3.8	29
08/05/02 - 08/11/02	168	2.7	51	41	68
08/12/02 - 08/18/02	168	3.3	4.8	4.1	65
08/19/02 - 08/25/02	168	0.8	4.4	29	17
08/26/02 - 09/01/02	168	3.1	6.5	53	82
09/02/02 - 09/08/02	168	3.8	6.2	5.0	98
09/09/02 - 09/15/02	168	3.8	5.8	49	92
09/16/02 - 09/22/02	168	37	51	4 4	86
09/23/02 - 09/29/02	168	3.8	4.7	4.3	90
09/30/02 - 10/06/02	167	3.3	5.2	4.6	90
10/07/02 - 10/13/02	168	3.4	5.0	4.2	64
10/14/02 - 10/20/02	167	4.0	5.8	5.1	99
10/21/02 - 10/27/02	168	5.3	6.1	5.8	100
10/28/02 - 11/03/02	168	5.0	7.0	6.2	100
11/04/02 - 11/10/02	168	6.1	7.2	6.7	100
11/11/02 - 11/17/02	168	5.8	6.7	6.3	100
11/18/02 - 11/24/02	168	5.3	6.5	6.1	100
11/25/02 - 12/01/02	168	6.0	7.2	6.8	100

TABLE AI-18 (Continued):WEEKLY DO SUMMARY STATISTICS AT ROMEOVILLE ROAD ON THE
CHICAGO SANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO (Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	7.2	8.6	7.9	100
12/09/02 - 12/15/02	168	7.1	8.6	8.0	100
12/16/02 - 12/22/02	168	6.3	8.3	7.3	100
12/23/02 - 12/29/02	168	6.3	8.1	7.5	100
12/30/02 - 12/31/02	48 .	6.8	8.5	7.7	100
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TABLE AI-19: WEEKLY DO SUMMARY STATISTICS AT LOCKPORT POWERHOUSE ON THE CHICAGO SANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO	Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
01/01/02 - 01/06/02	144	7.5	8.7	8.1	100
01/07/02 - 01/13/02	168	7.1	8.6	8.0	100
01/14/02 - 01/20/02	167	6.3	8.0	69	100
01/21/02 - 01/27/02	168	6.4	7.6	7.1	100
01/28/02 - 02/03/02	165	6.2	7.4	6.8	100
02/04/02 - 02/10/02	168	6.5	8.1	7.2	100
02/11/02 - 02/17/02	168	6.8	8.2	7.7	100
02/18/02 - 02/24/02	168	7.2	8.4	7.8	100
02/25/02 - 03/03/02	168	6.3	7.6	6.9	100
03/04/02 - 03/10/02	168	6.6	8.8	7.7	100
03/11/02 - 03/17/02	168	4.1	8.4	7.2	100
03/18/02 - 03/24/02	168	3.1	6.6	6.0	99
03/25/02 - 03/31/02	168	5.9	6.7	6.3	100
04/01/02 - 04/07/02	168	5.2	6.8	61	100
04/08/02 - 04/14/02	166	4.9	7.1	5.9	100
04/15/02 - 04/21/02	168	4.3	62	53	100
04/22/02 - 04/28/02	168	4.3	5.8	53	100
04/29/02 - 05/05/02	168	4.7	7.8	5.5	100
05/06/02 - 05/12/02	168	4.6	61	54	100
05/13/02 - 05/19/02	168	3.5	5.9	4.8	90
05/20/02 - 05/26/02	168	4.2	6.6	5.5	100
05/27/02 - 06/02/02	168	4.3	6.0	5.5	100
06/03/02 - 06/09/02	168	3.2	82	44	51
06/10/02 - 06/16/02	165	1.2	5.1	3.0	25
06/17/02 - 06/23/02	59	2.0	4.3	3.2	14
06/24/02 - 06/30/02			NO DATA		• •
07/01/02 - 07/07/02			NO DATA		
07/08/02 - 07/14/02			NO DATA		
07/15/02 - 07/21/02			NO DATA		
07/22/02 - 07/28/02			NO DATA		
07/29/02 - 08/04/02			NO DATA		
08/05/02 - 08/11/02			NO DATA		
08/12/02 - 08/18/02	109	4.5	5.5	5.0	100
08/19/02 - 08/25/02	168	1.2	5.2	3.2	49
08/26/02 - 09/01/02	168	2.8	5.5	4.5	77
09/02/02 - 09/08/02	168	3.7	5.7	4.7	94
09/09/02 - 09/15/02	168	4.5	6.3	5.2	100
09/16/02 - 09/22/02	168	4.0	5.3	4.5	99
09/23/02 - 09/29/02	168	3.7	4.8	4.2	72
09/30/02 - 10/06/02	168	4.0	5.1	4.5	99
10/07/02 - 10/13/02	168	3.2	5.7	4.6	84
10/14/02 - 10/20/02	167	4.3	5.4	4.9	100
10/21/02 - 10/27/02	167	4.9	5.8	5.5	100
10/28/02 - 11/03/02	168	4.4	6.6	5.8	100
11/04/02 - 11/10/02	168	6.1	7.1	6.5	100
11/11/02 - 11/17/02	168	5.8	6.7	6.3	100
11/18/02 - 11/24/02	168	5.6	6.7	6.1	100
11/25/02 - 12/01/02	168	5.8	7.2	6.6	100

TABLE AI-19 (Continued):WEEKLY DO SUMMARY STATISTICS AT LOCKPORT POWERHOUSE ON
THE CHICAGO SANITARY AND SHIP CANAL FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO (Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	168	6.9	8.3	7.6	100
12/09/02 - 12/15/02	168	7.2	8.2	7.8	100
12/16/02 - 12/22/02	168	6.0	8.3	7.2	100
12/23/02 - 12/29/02	168	6.1	7.8	7.3	100
12/30/02 - 12/31/02	48	6.3	7.9	6.9	100

Monitoring Dates DO Values Min Max Mean Above Standard 01/01/02 - 01/06/02 144 9.0 10.6 9.8 100 01/01/02 - 01/13/02 168 8.9 11.1 9.9 100 01/01/02 - 01/13/02 168 8.0 10.5 9.0 100 01/02/02 - 02/03/02 168 7.3 10.2 8.5 100 02/01/02 - 02/07/02 168 8.2 11.1 9.3 100 02/11/02 - 02/17/02 168 8.0 11.5 9.3 100 02/11/02 - 02/17/02 168 8.0 11.5 9.3 100 03/04/02 - 03/04/02 168 7.0 11.7 8.8 100 03/04/02 - 03/17/02 168 7.0 11.7 8.8 100 03/04/02 - 03/24/02 168 7.2 11.7 8.8 100 04/05/02 - 04/07/02 168 5.1 10.3 8.1 100 04/02/02 - 04/07/02 168 5.1 <th></th> <th>Number of</th> <th>DO (</th> <th>Concentration</th> <th>Percent DO Values</th>		Number of	DO (Concentration	Percent DO Values	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	01/01/02 - 01/06/02	144	9.0	10.6	9.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	01/07/02 - 01/13/02	168	89	11.1	0.0	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	01/14/02 - 01/20/02	168	8.0	10.6	89	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	01/21/02 - 01/27/02	168	8.0	10.5	9.0	100
02/4/02 - 02/10/02 168 8.2 11.1 9.3 100 $02/11/02 - 02/17/02$ 168 8.3 12.1 9.9 100 $02/11/02 - 02/17/02$ 168 8.0 12.3 9.5 100 $02/25/02 - 03/03/02$ 168 8.0 12.3 9.5 100 $03/04/02 - 03/10/02$ 168 8.0 12.0 9.8 100 $03/11/02 - 03/17/02$ 168 7.0 11.7 8.8 100 $03/25/02 - 03/24/02$ 168 7.2 11.7 8.9 100 $03/25/02 - 03/24/02$ 168 7.2 11.7 8.9 100 $03/25/02 - 03/24/02$ 168 5.7 8.6 6.8 100 $03/25/02 - 04/14/02$ 167 6.2 10.3 8.1 100 $04/15/02 - 04/21/02$ 168 5.7 8.6 6.8 100 $04/29/02 - 05/15/02$ 168 5.5 9.3 7.6 100 $05/16/02 - 05/12/02$ 168 5.5 8.4 6.6 100 $05/20/02 - 05/12/02$ 168 <td>01/28/02 - 02/03/02</td> <td>168</td> <td>73</td> <td>10.2</td> <td>85</td> <td>100</td>	01/28/02 - 02/03/02	168	73	10.2	85	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02/04/02 - 02/10/02	168	8.2	10.2	0.5	100
02/18/02 - 02/24/02 168 8.0 12.3 9.5 100 $02/15/02 - 03/03/02$ 168 8.0 11.5 9.3 100 $03/14/02 - 03/17/02$ 168 8.0 11.5 9.3 100 $03/14/02 - 03/17/02$ 168 7.7 10.7 9.3 100 $03/18/02 - 03/24/02$ 168 7.0 11.7 8.9 100 $03/18/02 - 03/24/02$ 168 7.2 11.7 8.9 100 $04/01/02 - 04/07/02$ 168 6.3 12.3 8.6 100 $04/01/02 - 04/07/02$ 168 5.7 8.6 6.8 100 $04/21/02 - 04/28/02$ 168 5.5 9.3 7.6 100 $05/04/02 - 05/10/02$ 168 5.5 9.3 7.6 100 $05/10/02 - 05/10/02$ 167 4.3 7.4 5.4 100 $05/20/02 - 05/10/02$ 167 2.5 7.5 30	02/11/02 - 02/17/02	168	83	121	9.9	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	02/18/02 - 02/24/02	168	8.0	12.1	9.5	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	02/25/02 - 03/03/02	168	8.0	11.5	03	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/04/02 - 03/10/02	168	8.0	12.0	0.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/11/02 = 03/17/02	168	0.0 7 7	10.7	9.0	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/18/02 - 03/24/02	168	7.7	11.7	9.5	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/25/02 = 03/31/02	168	7.0	11.7	80	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/01/02 - 04/07/02	168	63	12.3	8.6	100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	04/08/02 = 04/14/02	167	6.2	12.5	8.U 8 1	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/15/02 = 04/21/02	168	57	10.5	6.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/22/02 = 04/28/02	168	5.8	8.U 8.9	0.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/29/02 - 05/05/02	168	5.8	100	7.1	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	05/06/02 = 05/05/02	168	0.J 5 2	10.9	7.5	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	05/13/02 - 05/19/02	168	5.5	03	7.2	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	05/10/02 = 05/10/02	168	5.5	9.3	7.0	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	05/27/02 = 05/20/02	167	13	0.4 7 /	5.4	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	05/27/02 = 06/02/02	167	4.5	7.4	5.4	100
001002 + 001002 100 100 100 100 100 100 $0011702 + 001002$ 168 3.0 7.4 4.8 83 $0012402 + 001002$ 168 2.3 7.2 4.5 70 $07/01/02 + 07/0702$ 167 1.2 5.8 3.2 22 $07/08/02 + 07/14/02$ 168 2.7 5.3 3.8 36 $07/15/02 + 07/21/02$ 168 2.2 6.1 4.0 49 $07/22/02 + 07/28/02$ 167 2.8 4.8 3.7 30 $07/29/02 + 08/04/02$ 168 2.8 6.4 4.1 50 $08/05/02 + 08/11/02$ 167 3.0 6.5 4.9 83 $08/12/02 + 08/18/02$ 168 3.7 6.1 4.9 97 $08/19/02 + 08/25/02$ 168 3.8 6.7 5.2 98 $09/02/02 + 09/01/02$ 168 3.8 6.9 5.3 96 $09/09/02 + 09/15/02$ 168 3.8 6.3 5.1 98 $09/23/02 + 09/29/02$ 166 4.7 7.0 5.7 100 $09/10/02 + 10/13/02$ 168 4.4 6.4 5.5 100 $10/07/02 + 10/13/02$ 168 6.4 9.6 7.6 100 $10/14/02 + 11/02/02$ 168 6.4 9.6 7.6 100 $11/14/02 + 11/17/02$ 168 6.4 9.5 7.7 100 $11/18/02 + 11/12/02$ 168 6.1 9.5 7.7	06/10/02 - 06/16/02	168	4.5	7.0	J.0 4.0	100
0017/02 + 00/21/02 168 3.0 7.4 4.8 83 $06/24/02 + 06/30/02$ 168 2.3 7.2 4.5 70 $07/01/02 + 07/07/02$ 167 1.2 5.8 3.2 22 $07/08/02 + 07/14/02$ 168 2.7 5.3 3.8 36 $07/15/02 + 07/21/02$ 168 2.2 6.1 4.0 49 $07/22/02 + 07/28/02$ 167 2.8 4.8 3.7 30 $07/29/02 + 08/14/02$ 168 2.8 6.4 4.1 50 $08/05/02 + 08/11/02$ 168 3.7 6.1 4.9 97 $08/19/02 + 08/25/02$ 168 2.5 6.4 4.3 60 $08/26/02 + 09/01/02$ 168 3.8 6.7 5.2 98 $09/02/02 + 09/08/02$ 168 3.8 6.9 5.3 96 $09/09/02 + 09/15/02$ 168 4.3 6.3 5.1 98 $09/23/02 + 09/29/02$ 166 4.7 7.0 5.7 100 $09/30/02 + 10/06/02$ 168 4.8 7.0 5.9 100 $10/07/02 + 10/20/02$ 168 6.4 9.6 7.6 100 $10/14/02 + 11/20/02$ 168 6.4 9.6 7.6 100 $11/18/02 + 11/24/02$ 168 6.4 9.5 7.7 100 $11/18/02 + 11/24/02$ 168 6.4 9.5 7.7 100	06/17/02 - 06/23/02	168	3.1	7.5	4.9	11
002/402 + 003002 103 2.3 7.2 4.3 70 $07/01/02 + 07/07/02$ 167 1.2 5.8 3.2 22 $07/08/02 + 07/14/02$ 168 2.7 5.3 3.8 36 $07/15/02 + 07/21/02$ 168 2.2 6.1 4.0 49 $07/22/02 + 07/28/02$ 167 2.8 4.8 3.7 30 $07/29/02 + 08/04/02$ 168 2.8 6.4 4.1 50 $08/05/02 + 08/11/02$ 167 3.0 6.5 4.9 83 $08/12/02 + 08/18/02$ 168 3.7 6.1 4.9 97 $08/19/02 + 08/25/02$ 168 3.8 6.7 5.2 98 $09/02/02 + 09/08/02$ 168 3.8 6.9 5.3 96 $09/09/02 + 09/15/02$ 168 4.3 6.3 5.1 98 $09/23/02 + 09/22/02$ 167 3.8 6.3 5.1 98 $09/23/02 + 09/22/02$ 166 4.7 7.0 5.7 100 $09/30/02 + 10/6/02$ 168 4.4 6.4 5.5 100 $10/07/02 + 10/13/02$ 168 6.4 9.6 7.6 100 $10/28/02 + 11/03/02$ 168 6.4 9.6 7.6 100 $11/14/02 + 11/10/02$ 168 6.4 9.2 7.4 100 $11/18/02 + 11/24/02$ 168 6.1 9.5 7.7 100	06/24/02 = 06/20/02	100	3.0	7.4	4.0	83 70
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	00/24/02 = 00/30/02	108	2.3	1.2	4.5	70
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/08/02 = 07/14/02	168	1.2	5.2	3.4	22
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/15/02 = 07/21/02	168	2.7	5.5	3.8	<i>3</i> 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/22/02 = 07/21/02	167	2.2	0.1	4.0	49
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/29/02 = 07/28/02	168	2.0	4.0	3.7	50
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07725702 = 08704702	167	2.0	0.4	4.1	20 02
08/12/02 - 08/25/02 168 5.7 0.1 4.9 97 $08/19/02 - 08/25/02$ 168 2.5 6.4 4.3 60 $08/26/02 - 09/01/02$ 168 3.8 6.7 5.2 98 $09/02/02 - 09/08/02$ 168 3.8 6.9 5.3 96 $09/09/02 - 09/15/02$ 168 4.3 6.3 5.2 100 $09/16/02 - 09/22/02$ 167 3.8 6.3 5.1 98 $09/23/02 - 09/29/02$ 166 4.7 7.0 5.7 100 $09/30/02 - 10/06/02$ 168 4.4 6.4 5.5 100 $10/07/02 - 10/13/02$ 168 4.8 7.0 5.9 100 $10/21/02 - 10/27/02$ 168 6.4 9.6 7.6 100 $10/28/02 - 11/03/02$ 168 6.4 9.6 7.6 100 $11/14/02 - 11/17/02$ 168 6.4 9.2 7.4 100 $11/11/02 - 11/17/02$ 168 6.1 9.5 7.7 100 $11/18/02 - 11/24/02$ 168 6.1 9.5 7.7 100 $11/25/02 - 12/01/02$ 167 7.1 9.9 8.2 100	08/03/02 = 08/11/02	168	3.0	0.5	4.9	07
03/17/02 = 03/25/02 103 2.3 0.4 4.3 00 $08/26/02 = 09/01/02$ 168 3.8 6.7 5.2 98 $09/02/02 = 09/08/02$ 168 3.8 6.9 5.3 96 $09/09/02 = 09/15/02$ 168 4.3 6.3 5.2 100 $09/16/02 = 09/22/02$ 167 3.8 6.3 5.1 98 $09/23/02 = 09/29/02$ 166 4.7 7.0 5.7 100 $09/30/02 = 10/06/02$ 168 4.4 6.4 5.5 100 $10/07/02 = 10/13/02$ 168 4.8 7.0 5.9 100 $10/14/02 = 10/20/02$ 168 6.0 8.7 6.9 100 $10/21/02 = 10/27/02$ 168 6.4 9.6 7.6 100 $11/04/02 = 11/10/02$ 168 6.4 9.2 7.4 100 $11/11/02 = 11/17/02$ 168 6.1 9.5 7.7 100 $11/18/02 = 11/24/02$ 168 6.1 9.5 7.7 100 $11/25/02 = 12/01/02$ 167 7.1 9.9 8.2 100	08/12/02 = 08/16/02	168	2.7	6.1	4.9	50
00/25/02 - 09/08/02 168 3.8 6.7 5.2 98 $09/02/02 - 09/08/02$ 168 3.8 6.9 5.3 96 $09/09/02 - 09/15/02$ 168 4.3 6.3 5.2 100 $09/16/02 - 09/22/02$ 167 3.8 6.3 5.1 98 $09/23/02 - 09/29/02$ 166 4.7 7.0 5.7 100 $09/30/02 - 10/06/02$ 168 4.4 6.4 5.5 100 $10/07/02 - 10/13/02$ 168 4.8 7.0 5.9 100 $10/21/02 - 10/27/02$ 168 6.0 8.7 6.9 100 $10/28/02 - 11/03/02$ 168 6.4 9.6 7.6 100 $11/10/02 - 11/17/02$ 168 6.4 9.2 7.4 100 $11/18/02 - 11/24/02$ 168 6.1 9.5 7.7 100 $11/18/02 - 11/24/02$ 168 6.1 9.5 7.7 100	08/25/02 = 08/25/02	168	3.8	0.4 6 7	4.3	00
09/02/02 - 09/15/02 168 3.8 0.9 5.3 96 $09/09/02 - 09/15/02$ 168 4.3 6.3 5.2 100 $09/16/02 - 09/22/02$ 167 3.8 6.3 5.1 98 $09/23/02 - 09/29/02$ 166 4.7 7.0 5.7 100 $09/30/02 - 10/06/02$ 168 4.4 6.4 5.5 100 $10/07/02 - 10/13/02$ 168 4.8 7.0 5.9 100 $10/21/02 - 10/27/02$ 168 6.0 8.7 6.9 100 $10/28/02 - 11/03/02$ 168 6.4 9.6 7.6 100 $11/10/02 - 11/17/02$ 168 6.4 9.2 7.4 100 $11/18/02 - 11/24/02$ 168 6.1 9.5 7.7 100 $11/18/02 - 11/24/02$ 167 7.1 9.9 8.2 100	00/20/02 = 00/01/02	168	3.8	6.0	5.2	20
09/16/02 - 09/22/02 168 4.3 0.5 5.2 100 $09/16/02 - 09/22/02$ 167 3.8 6.3 5.1 98 $09/23/02 - 09/29/02$ 166 4.7 7.0 5.7 100 $09/30/02 - 10/06/02$ 168 4.4 6.4 5.5 100 $10/07/02 - 10/13/02$ 168 4.8 7.0 5.9 100 $10/14/02 - 10/20/02$ 168 5.1 7.8 6.1 100 $10/21/02 - 10/27/02$ 168 6.0 8.7 6.9 100 $10/28/02 - 11/03/02$ 168 6.4 9.6 7.6 100 $11/04/02 - 11/10/02$ 168 6.4 9.2 7.4 100 $11/11/02 - 11/17/02$ 168 6.1 9.5 7.7 100 $11/18/02 - 11/24/02$ 168 6.1 9.5 7.7 100 $11/25/02 - 12/01/02$ 167 7.1 9.9 8.2 100	09/02/02 = 09/08/02	168	J.0 1 3	63	5.5	90
09/10/02 - 09/22/02 107 5.8 0.3 5.1 98 $09/23/02 - 09/29/02$ 166 4.7 7.0 5.7 100 $09/30/02 - 10/06/02$ 168 4.4 6.4 5.5 100 $10/07/02 - 10/13/02$ 168 4.8 7.0 5.9 100 $10/14/02 - 10/20/02$ 168 5.1 7.8 6.1 100 $10/28/02 - 11/03/02$ 168 6.4 9.6 7.6 100 $11/04/02 - 11/10/02$ 168 6.4 9.2 7.4 100 $11/11/02 - 11/17/02$ 168 6.1 9.5 7.7 100 $11/18/02 - 11/24/02$ 168 6.1 9.5 7.7 100 $11/25/02 - 12/01/02$ 167 7.1 9.9 8.2 100	09/09/02 = 09/13/02	167	4.5	63	5.2	100
09/25/02 - 09/29/02 100 4.7 7.0 5.7 100 $09/30/02 - 10/06/02$ 168 4.4 6.4 5.5 100 $10/07/02 - 10/13/02$ 168 4.8 7.0 5.9 100 $10/14/02 - 10/20/02$ 168 5.1 7.8 6.1 100 $10/21/02 - 10/27/02$ 168 6.0 8.7 6.9 100 $10/28/02 - 11/03/02$ 168 6.4 9.6 7.6 100 $11/04/02 - 11/10/02$ 168 6.4 9.2 7.4 100 $11/11/02 - 11/17/02$ 168 6.1 9.5 7.7 100 $11/18/02 - 11/24/02$ 167 7.1 9.9 8.2 100	09/10/02 = 09/22/02	166	J.0 47	7.0	J.1 57	98
09/50/02 - 10/00/02 108 4.4 0.4 5.5 100 $10/07/02 - 10/13/02$ 168 4.8 7.0 5.9 100 $10/14/02 - 10/20/02$ 168 5.1 7.8 6.1 100 $10/21/02 - 10/27/02$ 168 6.0 8.7 6.9 100 $10/28/02 - 11/03/02$ 168 6.4 9.6 7.6 100 $11/04/02 - 11/10/02$ 168 6.4 9.2 7.4 100 $11/11/02 - 11/17/02$ 168 6.1 9.5 7.7 100 $11/18/02 - 11/24/02$ 167 7.1 9.9 8.2 100	09/20/02 - 09/29/02	168	4.7	7.0 6.4	5.7	100
10/07/02 - 10/13/02 108 4.8 7.0 5.9 100 $10/14/02 - 10/20/02$ 168 5.1 7.8 6.1 100 $10/21/02 - 10/27/02$ 168 6.0 8.7 6.9 100 $10/28/02 - 11/03/02$ 168 6.4 9.6 7.6 100 $11/04/02 - 11/10/02$ 168 7.1 9.8 7.8 100 $11/11/02 - 11/17/02$ 168 6.4 9.2 7.4 100 $11/18/02 - 11/24/02$ 168 6.1 9.5 7.7 100 $11/25/02 - 12/01/02$ 167 7.1 9.9 8.2 100	10/07/02 - 10/13/02	168	4.4	0.4	5.0	100
10/21/02 - 10/27/02 168 6.0 8.7 6.9 100 10/28/02 - 11/03/02 168 6.4 9.6 7.6 100 11/04/02 - 11/10/02 168 7.1 9.8 7.8 100 11/11/02 - 11/17/02 168 6.4 9.2 7.4 100 11/18/02 - 11/24/02 168 6.1 9.5 7.7 100 11/25/02 - 12/01/02 167 7.1 9.9 8.2 100	10/14/02 - 10/15/02	168	+.0 5 1	7.0	5.9	100
10/28/02 - 11/03/02 168 6.4 9.6 7.6 100 11/04/02 - 11/10/02 168 7.1 9.8 7.8 100 11/11/02 - 11/17/02 168 6.4 9.2 7.4 100 11/18/02 - 11/24/02 168 6.1 9.5 7.7 100 11/25/02 - 12/01/02 167 7.1 9.9 8.2 100	10/21/02 = 10/20/02	168	5.1	7.0 8.7	6.0	100
10/20/02 - 11/05/02 100 11/04/02 - 11/10/02 168 11/11/02 - 11/17/02 168 6.4 9.2 7.4 100 11/18/02 - 11/24/02 168 6.1 9.5 11/25/02 - 12/01/02 167	10/21/02 - 10/27/02	160	6.4	0.7	U.9 7 4	100
11/04/02 - 11/10/02 100 7.1 9.8 7.8 100 11/11/02 - 11/17/02 168 6.4 9.2 7.4 100 11/18/02 - 11/24/02 168 6.1 9.5 7.7 100 11/25/02 - 12/01/02 167 7.1 9.9 8.2 100	11/04/02 = 11/03/02	100	0.4 7 1	7.U 0.0	7.U 7 0	100
11/11/02 100 11/18/02 11/24/02 168 6.1 9.5 7.7 100 11/25/02 167 71 9.9 8.2 100	11/11/02 - 11/10/02	160	1.1 6 A	7.0 0.7	1.0 7 A	100
11/25/02 - 12/01/02 167 71 99 82 100	11/18/02 - 11/17/02	160	61	9.2 0.5	1.4 7 7	100
	11/25/02 = 12/01/02	167	71	9.0	82	100

TABLE AI-20:WEEKLY DO SUMMARY STATISTICS AT JEFFERSON STREET ON THE DES PLAINES
RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

	Number of	DO (Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
12/02/02 - 12/08/02	167	8.3	10.6	9.2	100
12/09/02 - 12/15/02	59	8.9	10.8	9.5	100
12/16/02 - 12/22/02	108	7.2	9.7	8.3	100
12/23/02 - 12/29/02	168	7.6	10.4	8.9	100
12/30/02 - 12/31/02	48	7.5	9.3	8.4	100

TABLE AI-20 (Continued):WEEKLY DO SUMMARY STATISTICS AT JEFFERSON STREET ON THE DES
PLAINES RIVER FROM JANUARY 2002 THROUGH DECEMBER 2002

APPENDIX AII

WEEKLY DO SUMMARY STATISTICS AT THIRTEEN MONITORING STATIONS IN THE CALUMET RIVER SYSTEM FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	Percent DO Values			
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
07/09/01 - 07/15/01	108	6.2	8.5	7.3	100
07/16/01 - 07/22/01	168	5.3	8.2	6.5	100
07/23/01 - 07/29/01	168	5.5	8.1	6.2	100
07/30/01 - 08/05/01	168	5.5	8.3	6.6	100
08/06/01 - 08/12/01	167	5.1	8.3	6.6	100
08/13/01 - 08/19/01	168	5.2	7.7	6.4	100
08/20/01 - 08/26/01	60	5.7	9.1	6.6	100
08/27/01 - 09/02/01	109	6.3	7.7	6.9	100
09/03/01 - 09/09/01	168	6.3	7.3	6.7	100
09/10/01 - 09/16/01	168	6.1	7.6	6.8	100
09/17/01 - 09/23/01	168	6.7	7.6	7.2	100
09/24/01 - 09/30/01	.59	7.3	8.0	7.8	100
10/01/01 - 10/07/01			NO DATA	,,,,,	
10/08/01 - 10/14/01			NO DATA		
10/15/01 - 10/21/01			NODATA		
10/22/01 - 10/28/01			NODATA		
10/29/01 - 11/04/01			NODATA		
11/05/01 - 11/11/01			NODATA		
11/12/01 - 11/18/01			NODATA		
11/19/01 - 11/25/01			NODATA		
11/26/01 - 12/02/01			NODATA		
12/03/01 - 12/09/01	109	10.1	10.6	10.3	100
12/10/01 - 12/16/01	59	10.1	10.0	10.2	100
12/17/01 - 12/23/01	109	10.3	11.1	10.5	100
12/24/01 - 12/30/01	168	11.1	12.9	12.1	100
12/31/01 = 01/06/02	167	10.4	13.4	11.1	100
01/07/02 = 01/13/02	168	10.4	11.0	10.9	100
01/14/02 = 01/20/02	168	10.0	137	12.7	100
01/21/02 = 01/27/02	168	13.5	13.7	13.6	100
01/28/02 = 02/03/02	168	12.8	13.6	13.0	100
02/04/02 = 02/10/02	168	12.8	13.0	13.3	100
02/11/02 - 02/17/02	168	13.3	13.9	13.6	100
02/18/02 - 02/24/02	168	13.2	13.9	13.0	100
02/25/02 = 03/03/02	167	13.1	13.6	13.5	100
03/04/02 = 03/10/02	168	13.2	14.9	14.0	100
03/11/02 = 03/17/02	168	13.5	14.2	13.0	100
03/18/02 - 03/24/02	168	10.9	13.7	11.9	100
03/25/02 - 03/31/02	168	10.9	12.3	11.7	100
04/01/02 - 04/07/02	168	11.3	12.0	11.7	100
04/08/02 = 04/14/02	168	10.9	11.6	11.7	100
04/15/02 = 04/21/02	166	91	11.0	10.2	100
04/22/02 - 04/28/02	168	83	96	8.9	100
04/29/02 - 05/05/02	168	8.8	9.8	9.2	100
05/06/02 - 05/12/02	168	84	10.3	9.2	100
05/13/02 - 05/19/02	168	73	8.8	7.7	100
05/20/02 - 05/26/02	168	75	9.6	8.6	100
05/27/02 - 06/02/02	167	,. <u>)</u> 8 3	11.4	9.6	100
06/03/02 - 06/09/02	167	7.2	9.1	8.2	100

TABLE AII-1: WEEKLY DO SUMMARY STATISTICS AT 130th STREET ON THE CALUMET RIVER FROMJULY 2001 THROUGH DECEMBER 2002

	Number of	DO	Concentration	(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
06/10/02 - 06/16/02	167	7.2	8.9	8.0	100
06/17/02 - 06/23/02	168	6.9	8.9	7.7	100
06/24/02 - 06/30/02	168	6.2	8.2	7.0	100
07/01/02 - 07/07/02	168	6.4	7.8	7.2	100
07/08/02 - 07/14/02	168	6.3	8.1	7.0	100
07/15/02 - 07/21/02	168	6.1	9.7	7.7	100
07/22/02 - 07/28/02	59	5.8	7.3	6.4	100
07/29/02 - 08/04/02	108	6.0	8.6	7.4	100
08/05/02 - 08/11/02	168	6.5	8.7	7.5	100
08/12/02 - 08/18/02	168	5.7	7.6	6.4	100
08/19/02 - 08/25/02	168	6.1	8.1	6.6	100
08/26/02 - 09/01/02	167	6.6	9.1	7.8	100
09/02/02 - 09/08/02	168	5.9	7.9	6.8	100
09/09/02 - 09/15/02	168	6.1	8.1	7.1	100
09/16/02 - 09/22/02	167	6.0	7.4	6.8	100
09/23/02 - 09/29/02	167	6.7	7.9	7.2	100
09/30/02 - 10/06/02	167	6.9	7.7	7.3	100
10/07/02 - 10/13/02	168	7.4	8.3	7.8	100
10/14/02 - 10/20/02	168	7.9	9.0	8.5	100
10/21/02 - 10/27/02	168	8.5	9.4	9.0	100
10/28/02 - 11/03/02	168	9.2	11.0	10.0	100
11/04/02 - 11/10/02	60	10.5	11.1	10.8	100
11/11/02 - 11/17/02	108	10.2	10.6	10.4	100
11/18/02 - 11/24/02	168	10.1	11.1	10.7	100
11/25/02 - 12/01/02	168	11.0	12.4	11.7	100
12/02/02 - 12/08/02	167	12.3	12.9	12.5	100
12/09/02 - 12/15/02	168	12.2	13.0	12.5	100
12/16/02 - 12/22/02	168	12.3	13.1	12.7	100
12/23/02 - 12/29/02	168	13.0	13.5	13.3	100
12/30/02 - 12/31/02	48	13.4	13.5	13.5	100

TABLE AII-1 (Continued): WEEKLY DO SUMMARY STATISTICS AT 130th STREET ON THE CALUMET RIVER DURING JULY 2001 THROUGH DECEMBER 2002

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Monitoring Dates DO Values Min Max Mean Above Standard 07/09/01 - 07/15/01 108 2.8 12.2 7.7 85 07/16/01 - 07/22/01 168 0.6 9.3 4.3 50 07/23/01 - 07/29/01 168 0.6 9.3 4.3 50 07/23/01 - 07/29/01 168 0.8 14.0 6.5 76 08/13/01 - 08/19/01 168 1.7 8.2 4.6 61 08/20/01 - 08/20/01 168 0.6 6.4 2.8 22 08/20/01 - 09/20/01 168 0.6 7.3 5.1 83 09/10/01 - 09/20/01 168 0.6 7.3 5.1 83 09/24/01 - 09/30/01 167 2.4 7.6 5.4 83 10/04/01 - 10/07/01 168 0.4 8.1 4.8 65 10/21/01 - 168 0.4 8.3 5.8 90 11/05/01 10/21/01 168 2.9 9.5 10/15/01		Number of	DO	Concentration	(mg/L)	Percent DO Values
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	07/09/01 - 07/15/01	108	2.8	12.2	7.7	85
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/16/01 - 07/22/01	168	0.6	9.3	4.3	50
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/23/01 - 07/29/01	168	0.0	7.1	2.7	20
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	07/30/01 - 08/05/01	168	0.3	7.7	33	35
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	08/06/01 - 08/12/01	168	0.8	14.0	6.5	76
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	08/13/01 - 08/19/01	168	17	8.2	4.6	61
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	08/20/01 - 08/26/01	168	0.6	6.4	28	22
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	08/27/01 - 09/02/01	168	0.0	0.4	2.0	50
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	09/03/01 = 09/02/01	168	0.5	9.0	4.4	58
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	09/10/01 = 09/16/01	168	1.4	0.1	4./	07
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	09/17/01 - 09/10/01	168	0.0	7.5	5.1	83
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	09/24/01 = 09/20/01	167	0.5	7.1	4.0	51
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10/01/01 10/07/01	107	2.4	7.0	5.4	83
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10/08/01 10/14/01	108	1.0	0.0	0.2	89
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10/15/01 - 10/14/01	108	0.4	8.1 ()	4.8	60
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		108	0.4	0.3	3.4	38
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		108	0.2	8.5	4.9	58
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10/29/01 - 11/04/01	168	2.0	8.3	5.8	90
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11/03/01 - 11/11/01	168	3.6	10.2	7.0	99
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11/12/01 - 11/18/01	168	2.5	10.5	7.3	95
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11/19/01 - 11/25/01	168	4.0	10.3	8.0	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11/26/01 - 12/02/01	167	1.6	9.6	6.6	86
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	12/03/01 - 12/09/01	168	5.2	9.9	7.5	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	12/10/01 - 12/16/01	167	5.6	10.0	8.4	100
12/24/01 - 12/30/01 NO DATA 12/31/01 - 01/06/02 NO DATA 01/07/02 - 01/13/02 NO DATA 01/14/02 - 01/20/02 109 6.6 10.5 8.9 100 01/21/02 - 01/27/02 168 5.8 12.5 10.0 100 01/28/02 - 02/03/02 168 9.9 14.2 11.8 100 02/04/02 - 02/10/02 168 11.4 14.5 13.5 100 02/11/02 - 02/17/02 168 10.1 19.4 14.1 100 02/25/02 - 03/03/02 167 10.9 16.9 14.2 100 03/04/02 - 03/10/02 168 7.5 17.0 13.4 100 03/11/02 - 03/17/02 168 8.4 15.7 11.8 100 03/25/02 - 03/31/02 168 5.1 14.9 9.8 100 04/08/02 - 04/14/02 167 0.6 11.4 6.0 74 04/08/02 - 04/14/02 167 1.5 7.8 4.6 62 04/22/02 - 05/05/02 168 5.1 9.6 7.2 100 <td>12/17/01 - 12/23/01</td> <td>59</td> <td>5.7</td> <td>9.7</td> <td>7.4</td> <td>100</td>	12/17/01 - 12/23/01	59	5.7	9.7	7.4	100
12/31/01 - 01/06/02 NO DATA 01/07/02 - 01/13/02 109 6.6 10.5 8.9 100 01/14/02 - 01/20/02 109 6.6 10.5 8.9 100 01/21/02 - 01/27/02 168 5.8 12.5 10.0 100 01/28/02 - 02/03/02 168 9.9 14.2 11.8 100 02/04/02 - 02/10/02 168 10.1 19.4 14.1 100 02/11/02 - 02/17/02 168 10.2 19.4 14.1 100 02/18/02 - 02/24/02 168 10.1 19.4 14.4 100 02/25/02 - 03/03/02 167 10.9 16.9 14.2 100 03/04/02 - 03/10/02 168 7.5 17.0 13.4 100 03/18/02 - 03/24/02 168 8.4 15.7 11.8 100 03/25/02 - 03/31/02 168 7.4 15.5 12.0 100 04/01/02 - 04/10/02 167 0.6 11.4 6.0 74 04/15/02 - 04/21/02 167 1.5 7.8 4.6 62 <td>12/24/01 - 12/30/01</td> <td></td> <td></td> <td>NO DATA</td> <td></td> <td></td>	12/24/01 - 12/30/01			NO DATA		
01/07/02 - 01/13/02NO DATA $01/14/02 - 01/20/02$ 109 6.6 10.5 8.9 100 $01/21/02 - 01/27/02$ 168 5.8 12.5 10.0 100 $01/28/02 - 02/03/02$ 168 9.9 14.2 11.8 100 $02/04/02 - 02/10/02$ 168 11.4 14.5 13.5 100 $02/04/02 - 02/17/02$ 168 10.2 19.4 14.1 100 $02/11/02 - 02/17/02$ 168 10.1 19.4 14.4 100 $02/25/02 - 03/03/02$ 167 10.9 16.9 14.2 100 $03/04/02 - 03/10/02$ 168 7.5 17.0 13.4 100 $03/11/02 - 03/17/02$ 168 7.4 15.5 12.0 100 $03/18/02 - 03/24/02$ 168 7.4 15.5 12.0 100 $04/01/02 - 04/07/02$ 168 5.1 14.9 9.8 100 $04/01/02 - 04/07/02$ 168 5.1 9.6 7.2 100 $04/08/02 - 04/14/02$ 167 1.5 7.8 4.6 62 $04/22/02 - 04/28/02$ 168 5.1 9.6 7.2 100 $04/02/02 - 05/05/02$ 168 0.8 12.3 6.3 77 $05/13/02 - 05/19/02$ 168 0.3 15.2 5.8 66 $05/20/02 - 05/20/02$ 168 1.3 14.9 7.2 87	12/31/01 - 01/06/02			NO DATA		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	01/07/02 - 01/13/02			NO DATA		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	01/14/02 - 01/20/02	109	6.6	10.5	8.9	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	01/21/02 - 01/27/02	168	5.8	12.5	10.0	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	01/28/02 - 02/03/02	168	9.9	14.2	11.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02/04/02 - 02/10/02	168	11.4	14.5	13.5	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02/11/02 - 02/17/02	168	10.2	19.4	14.1	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02/18/02 - 02/24/02	168	10.1	19.4	14.4	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02/25/02 - 03/03/02	167	10.9	16.9	14.2	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/04/02 - 03/10/02	168	7.5	17.0	13.4	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/11/02 - 03/17/02	168	4.0	16.4	10.5	99
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/18/02 - 03/24/02	168	8.4	15.7	11.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/25/02 - 03/31/02	168	7.4	15.5	12.0	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/01/02 - 04/07/02	168	5.1	14.9	9.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04/08/02 - 04/14/02	167	0.6	11.4	6.0	74
04/22/02 - 04/28/02 168 5.1 9.6 7.2 100 04/29/02 - 05/05/02 168 4.4 12.5 8.2 100 05/06/02 - 05/12/02 168 0.8 12.3 6.3 77 05/13/02 - 05/19/02 167 0.9 8.0 3.2 26 05/20/02 - 05/26/02 168 1.3 10.9 4.9 60 05/27/02 - 06/02/02 168 0.3 15.2 5.8 66 06/03/02 - 06/09/02 168 1.3 14.9 7.2 87	04/15/02 - 04/21/02	167	1.5	7.8	4.6	62
04/29/02 - 05/05/02 168 4.4 12.5 8.2 100 05/06/02 - 05/12/02 168 0.8 12.3 6.3 77 05/13/02 - 05/19/02 167 0.9 8.0 3.2 26 05/20/02 - 05/26/02 168 1.3 10.9 4.9 60 05/27/02 - 06/02/02 168 0.3 15.2 5.8 66 06/03/02 - 06/09/02 168 1.3 14.9 7.2 87	04/22/02 - 04/28/02	168	5.1	9.6	7.2	100
05/06/02 - 05/12/02 168 0.8 12.3 6.3 77 05/13/02 - 05/19/02 167 0.9 8.0 3.2 26 05/20/02 - 05/26/02 168 1.3 10.9 4.9 60 05/27/02 - 06/02/02 168 0.3 15.2 5.8 66 06/03/02 - 06/09/02 168 1.3 14.9 7.2 87	04/29/02 - 05/05/02	168	4.4	12.5	8.2	100
05/13/02 - 05/19/02 167 0.9 8.0 3.2 26 05/20/02 - 05/26/02 168 1.3 10.9 4.9 60 05/27/02 - 06/02/02 168 0.3 15.2 5.8 66 06/03/02 - 06/09/02 168 1.3 14.9 7.2 87	05/06/02 - 05/12/02	168	0.8	12.3	6.3	77
05/20/02 - 05/26/02 168 1.3 10.9 4.9 60 05/27/02 - 06/02/02 168 0.3 15.2 5.8 66 06/03/02 - 06/09/02 168 1.3 14.9 7.2 87	05/13/02 - 05/19/02	167	0.9	8.0	3.2	26
05/27/02 - 06/02/02 168 0.3 15.2 5.8 66 06/03/02 - 06/09/02 168 1.3 14.9 7.2 87	05/20/02 - 05/26/02	168	1.3	10.9	49	60
06/03/02 - 06/09/02 168 1.3 14.9 7.2 87	05/27/02 - 06/02/02	168	0.3	15.2	5 8	66
	06/03/02 - 06/09/02	168	1.3	14.9	7.2	87

TABLE AII-2: WEEKLY DO SUMMARY STATISTICS AT TORRENCE AVENUE ON THE GRAND CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	DO (Concentration	(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
06/10/02 - 06/16/02	167	0.3	12.7	5.3	68
06/17/02 - 06/23/02	168	0.4	13.4	5.9	62
06/24/02 - 06/30/02	168	0.6	10.8	4.0	45
07/01/02 - 07/07/02	60	1.5	14.5	6.6	65
07/08/02 - 07/14/02	108	3.9	10.7	6.7	96
07/15/02 - 07/21/02	61	0.5	13.8	7.1	87
07/29/02 - 08/04/02	109	2.1	10.4	5.2	63
08/05/02 - 08/11/02	168	0.5	10.3	4.9	61
08/12/02 - 08/18/02	168	0.0	7.2	4.0	56
08/19/02 - 08/25/02	168	0.7	6.4	3.9	45
08/26/02 - 09/01/02	168	2.7	10.3	5.7	83
09/02/02 - 09/08/02	168	2.0	7.9	4.6	64
09/09/02 - 09/15/02	168	2.5	10.9	5.9	79
09/16/02 - 09/22/02	167	3.8	10.7	6.5	99
09/23/02 - 09/29/02	168	5.6	15.3	7.8	100
09/30/02 - 10/06/02	168	3.5	9.5	6.5	99
10/07/02 - 10/13/02	168	4.8	7.6	6.6	100
10/14/02 - 10/20/02	167	6.4	8.5	7.8	100
10/21/02 - 10/27/02	168	7.7	9.7	8.5	100
10/28/02 - 11/03/02	167	8.5	11.3	10.1	100
11/04/02 - 11/10/02	60	10.6	11.4	11.0	100
11/11/02 - 11/17/02	108	9.2	11.5	10.6	100
11/18/02 - 11/24/02	168	10.0	12.1	11.0	100
11/25/02 - 12/01/02	168	11.2	14.7	12.9	100
12/02/02 - 12/08/02	168	13.3	14.8	13.9	100
12/09/02 - 12/15/02	168	13.4	16.6	14.6	100
12/16/02 - 12/22/02	168	5.6	18.2	12.8	100
12/23/02 - 12/29/02	168	12.7	18.1	14.1	100
12/30/02 - 12/31/02	48	13.4	17.3	14.9	100

TABLE AII-2 (Continued): WEEKLY DO SUMMARY STATISTICS AT TORRENCE AVENUE ON THE GRAND CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002

Monitoring Dates DO Values Min Max Mean Above Standard 07/09/01 - 07/15/01 109 6.6 9.1 7.6 100 07/13/01 - 07/22/01 168 4.6 8.1 6.2 100 07/23/01 - 07/22/01 168 5.2 9.6 7.1 100 08/06/01 - 08/12/01 168 5.2 9.6 7.1 100 08/06/01 - 08/12/01 168 5.9 7.5 6.6 100 08/20/01 - 08/26/01 168 5.9 7.5 6.6 100 08/20/01 - 08/26/01 168 6.4 8.3 7.0 100 09/03/01 - 09/03/01 168 6.4 7.4 7.1 100 09/17/01 - 09/16/01 168 7.3 8.6 7.1 100 09/17/01 - 09/23/01 168 7.3 8.6 7.1 100 10/02/01 - 10/07/01 168 7.8 9.7 8.8 100 10/02/01 - 10/24/01 168 9.0 <		Number of	DO Concentration (mg/L)			Percent DO Values
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/09/01 - 07/15/01	109	6.6	91	76	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/16/01 - 07/22/01	168	4.6	81	62	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	07/23/01 - 07/29/01	168	3.7	8.2	6.3	98
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	07/30/01 - 08/05/01	168	52	9.6	7.1	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	08/06/01 - 08/12/01	168	5.6	10.9	7.8	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	08/13/01 - 08/19/01	167	4.6	79	62	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	08/20/01 - 08/26/01	168	5.9	75	6.6	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	08/27/01 - 09/02/01	- 62	61	7.9	6.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	09/03/01 - 09/09/01	110	6.6	8.2	7.2	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	09/10/01 - 09/16/01	168	6.4	83	7.2	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	09/17/01 - 09/23/01	168	6.4	74	7.0	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	09/24/01 = 09/30/01	168	71	8.4	7.1	100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10/01/01 - 10/07/01	168	7.1	8.6	7.0	100
100311-10221/01 168 2.5 6.50 1.1 1000 $100221/01-10228011$ 168 5.6 9.2 8.3 1000 $10/29/01-11/04/01$ 156 8.7 9.5 9.1 1000 $11/1201-11/18011$ 168 9.0 11.2 9.9 1000 $11/12/01-11/18011$ 168 9.0 11.2 9.9 1000 $11/1901-11/25/011$ 168 9.0 10.5 9.9 1000 $11/1901-11/26/01-12/02/011$ 168 9.1 10.9 10.1 1000 $12/213/01-12/09/011$ 168 9.8 11.9 10.8 1000 $12/214/01-12/30/01$ 168 11.8 13.0 12.7 1000 $12/214/01-12/30/01$ 168 11.4 12.2 12.9 12.5 1000 $01/07/02-01/13/02$ 168 11.4 12.2 12.9 12.5 1000 $01/21/02-01/27/02$ 168 11.6 12.9 12.2 1000 $01/28/02-02/30/02$ 168 13.4 13.9 13.7 1000 $02/14/02-02/17/02$ 168 12.8 14.1 13.4 1000 $02/24/02-02/16/0216813.413.913.7100002/14/02-02/17/0216812.814.113.4100002/14/02-02/17/0216812.814.113.4100002/14/02-03/17/0216812.614.913.8100003/14/$	10/08/01 - 10/14/01	168	50	8.6	7.5	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10/15/01 - 10/21/01	168	2.2	7.0	5.2	21
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10/22/01 - 10/28/01	168	5.6	0.0	9.2	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10/22/01 - 11/04/01	156	5.0 8 7	9.2	0.5	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11/05/01 - 11/11/01	168	7.8	9.5	9.1 9.0	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11/12/01 - 11/18/01	168	0.0	9.7 11 2	0.0	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11/12/01 - 11/25/01	168	9.0	10.5	9.9	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11/26/01 - 12/02/01	168	9.1	10.2	9.9	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12/03/01 - 12/09/01	168	9.1	10.2	10.1	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12/10/01 - 12/16/01	168	10.0	11.5	10.1	100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{12}{17}$	168	9.8	11.5	10.4	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12/24/01 - 12/30/01	168	11.8	12.0	10.8	100
121301 - 01/03/02 144 12.2 12.3 100 $01/07/02 - 01/13/02$ 168 11.4 12.2 11.7 100 $01/14/02 - 01/20/02$ 168 11.3 12.1 11.8 100 $01/21/02 - 01/27/02$ 168 11.6 12.9 12.2 100 $01/28/02 - 02/03/02$ 168 12.8 13.5 13.0 100 $02/04/02 - 02/10/02$ 168 12.8 14.1 13.4 100 $02/11/02 - 02/17/02$ 168 12.8 14.1 13.4 100 $02/18/02 - 02/24/02$ 168 9.4 13.8 11.1 100 $02/25/02 - 03/30/2$ 167 10.1 15.3 13.0 100 $03/04/02 - 03/10/02$ 168 13.4 15.8 14.8 100 $03/11/02 - 03/17/02$ 168 13.0 15.7 14.4 100 $03/18/02 - 03/24/02$ 168 14.3 16.7 15.5 100 $04/01/02 - 04/07/02$ 168 14.3 16.7 15.5 100 $04/08/02 - 04/14/02$ 167 10.7 14.2 12.0 100 $04/22/02 - 04/28/02$ 168 7.2 9.2 8.2 100 $04/29/02 - 05/05/02$ 168 6.7 11.0 9.1 100 $05/13/02 - 05/12/02$ 168 6.7 11.0 9.1 100 $05/12/02 - 05/26/02$ 103 6.4 9.5 7.7 100 $05/27/02 - 05/26/02$ 168 <t< td=""><td>12/24/01 = 01/06/02</td><td>108</td><td>12.3</td><td>12.0</td><td>12.7</td><td>100</td></t<>	12/24/01 = 01/06/02	108	12.3	12.0	12.7	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	01/07/02 - 01/13/02	168	11.2	12.9	12.5	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	01/14/02 = 01/20/02	168	11.4	12.2	11.7	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	01/21/02 - 01/27/02	168	11.5	12.1	11.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	01/28/02 = 02/03/02	168	12.8	12.5	12.2	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{02}{04}$	168	12.0	13.0	13.0	100
02/18/02 - 02/24/0216812.614.113.4100 $02/18/02 - 02/24/02$ 1689.413.811.1100 $02/25/02 - 03/03/02$ 16710.115.313.0100 $03/04/02 - 03/10/02$ 16813.415.814.8100 $03/04/02 - 03/17/02$ 16812.614.913.8100 $03/18/02 - 03/24/02$ 16812.614.913.8100 $03/18/02 - 03/24/02$ 16813.015.714.4100 $03/25/02 - 03/31/02$ 16814.316.715.5100 $04/01/02 - 04/07/02$ 16812.216.415.0100 $04/08/02 - 04/14/02$ 16710.714.212.0100 $04/08/02 - 04/21/02$ 1687.812.79.9100 $04/22/02 - 04/28/02$ 1687.29.28.2100 $04/29/02 - 05/05/02$ 1686.711.09.1100 $05/13/02 - 05/12/02$ 1686.711.09.1100 $05/20/02 - 05/26/02$ 1036.49.57.7100 $05/27/02 - 06/02/02$ 1686.214.29.7100 $05/27/02 - 06/02/02$ 1685.88.66.9100	$\frac{02}{11}$	168	12.4	14.1	13.7	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{02}{18} \frac{11}{02} = \frac{02}{24} \frac{11}{02}$	168	94	13.8	15.4	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02/25/02 = 03/03/02	167	10.1	15.3	13.0	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/04/02 = 03/10/02	168	13.4	15.8	14.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/11/02 - 03/17/02	168	12.4	14.0	13.8	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/18/02 = 03/24/02	168	12.0	14.5	14.4	100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	03/25/02 = 03/21/02	168	14.3	15.7	14.4	100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	03/23/02 = 03/31/02 04/01/02 = 04/07/02	168	17.5	16.4	15.5	100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	04/08/02 = 04/14/02	167	10.7	14.2	12.0	100
04/22/02 - 04/28/02 168 7.2 9.2 8.2 100 04/29/02 - 05/05/02 168 8.3 11.4 9.2 100 05/06/02 - 05/12/02 168 6.7 11.0 9.1 100 05/13/02 - 05/19/02 62 1.7 6.4 4.1 53 05/20/02 - 05/26/02 103 6.4 9.5 7.7 100 05/27/02 - 06/02/02 168 6.2 14.2 9.7 100 06/03/02 - 06/09/02 168 5.8 8.6 6.9 100	04/15/02 = 04/21/02	168	7.8	17.2	0.0	100
04/29/02 - 05/05/02 168 8.3 11.4 9.2 100 05/06/02 - 05/12/02 168 6.7 11.0 9.1 100 05/13/02 - 05/19/02 62 1.7 6.4 4.1 53 05/20/02 - 05/26/02 103 6.4 9.5 7.7 100 05/27/02 - 06/02/02 168 6.2 14.2 9.7 100 06/03/02 - 06/09/02 168 5.8 8.6 6.9 100	04/22/02 = 04/28/02	168	7.0	0 7	9.9 8 0	100
05/06/02 - 05/12/02 168 6.7 11.4 9.2 100 05/06/02 - 05/12/02 168 6.7 11.0 9.1 100 05/13/02 - 05/19/02 62 1.7 6.4 4.1 53 05/20/02 - 05/26/02 103 6.4 9.5 7.7 100 05/27/02 - 06/02/02 168 6.2 14.2 9.7 100 06/03/02 - 06/09/02 168 5.8 8.6 6.9 100	04/29/02 - 05/05/02	168	7.2 8 3	9.2 11 A	0.2	100
05/03/02 - 05/12/02 103 0.7 11.0 9.1 100 05/13/02 - 05/19/02 62 1.7 6.4 4.1 53 05/20/02 - 05/26/02 103 6.4 9.5 7.7 100 05/27/02 - 06/02/02 168 6.2 14.2 9.7 100 06/03/02 - 06/09/02 168 5.8 8.6 6.9 100	05/06/02 = 05/12/02	168	6.5	11.4	9.2 0 1	100
05/12/02 - 05/26/02 103 6.4 9.5 7.7 100 05/27/02 - 06/02/02 168 6.2 14.2 9.7 100 06/03/02 - 06/09/02 168 5.8 8.6 6.9 100	05/13/02 = 05/12/02	67	17	6.4	7.1 / 1	52
05/27/02 - 06/02/02 168 6.2 14.2 9.7 100 06/03/02 - 06/09/02 168 5.8 8.6 6.9 100	05/10/02 = 05/10/02	102	1./ 6 /	0.4		
06/03/02 - 06/09/02 168 5.8 8.6 6.9 100	05/27/02 - 06/02/02	162	60.4	7.5 14 7	07	100
	06/03/02 - 06/09/02	168	5.8	86	69	100

TABLE AII-3: WEEKLY DO SUMMARY STATISTICS AT CONRAIIL RAIILROAD ON THE LITTLECALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	DO (Concentration	(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
06/10/02 - 06/16/02	168	5.1	8.0	6.4	100
06/17/02 - 06/23/02	168	4.4	10.0	6.6	100
06/24/02 - 06/30/02	168	2.7	7.5	4.9	80
07/01/02 - 07/07/02	168	1.9	9.2	5.5	93
07/08/02 - 07/14/02	168	3.0	6.4	5.1	93
07/15/02 - 07/21/02	168	3.4	9.5	6.2	99
07/22/02 - 07/28/02	168	4.1	9.3	6.0	100
07/29/02 - 08/04/02	168	4.8	7.2	6.0	100
08/05/02 - 08/11/02	168	5.0	8.1	6.8	100
08/12/02 - 08/18/02	168	5.6	7.7	6.3	100
08/19/02 - 08/25/02	168	5.5	7.1	6.3	100
08/26/02 - 09/01/02	164	6.2	11.4	8.1	100
09/02/02 - 09/08/02	168	5.9	8.4	7.2	100
09/09/02 - 09/15/02	168	6.4	8.4	7.3	100
09/16/02 - 09/22/02	168	6.1	7.7	6.9	100
09/23/02 - 09/29/02	168	6.5	8.6	7.5	100
09/30/02 - 10/06/02	168	6.8	8.4	7.4	100
10/07/02 - 10/13/02	168	7.2	8.3	7.7	100
10/14/02 - 10/20/02	168	7.5	8.9	8.4	100
10/21/02 - 10/27/02	168	8.4	9.2	8.8	100
10/28/02 - 11/03/02	168	8.8	10.8	9.8	100
11/04/02 - 11/10/02	168	9.9	11.3	10.8	100
11/11/02 - 11/17/02	168	9.3	10.9	10.2	100
11/18/02 - 11/24/02	168	10.4	12.4	11.6	100
11/25/02 - 12/01/02	168	11.9	13.7	13.0	100
12/02/02 - 12/08/02	168	12.4	14.0	13.1	100
12/09/02 - 12/15/02	168	12.7	13.8	13.2	100
12/16/02 - 12/22/02	168	12.0	13.9	12.8	100
12/23/02 - 12/29/02	168	12.5	13.2	12.9	100
12/30/02 - 12/31/02	48	12.9	13.1	13.0	100

TABLE AII-3 (Continued): WEEKLY DO SUMMARY STATISTICS AT CONRAIIL RAIILROAD ON THE LITTLE CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	DO	Concentration	(mg/L)	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard	
07/09/01 - 07/15/01	109	6.8	11.8	9.1	100	
07/16/01 - 07/22/01	168	5.1	9.7	7.3	100	
07/23/01 - 07/29/01	168	3.7	7.7	5.7	98	
07/30/01 - 08/05/01	168	3.8	11.8	7.4	99	
08/06/01 - 08/12/01	168	5.6	12.5	8.4	100	
08/13/01 - 08/19/01	168	4.7	. 10.2	6.7	100	
08/20/01 - 08/26/01	168	5.3	9.0	6.8	100	
08/27/01 - 09/02/01	168	5.5	10.4	7.7	100	
09/03/01 - 09/09/01	168	6.8	10.6	8.0	100	
09/10/01 - 09/16/01	168	6.6	8.4	7.4	100	
09/17/01 - 09/23/01	168	6.8	7.9	7.2	100	
09/24/01 - 09/30/01	168	7.3	8.5	7.9	100	
10/01/01 - 10/07/01	168	7.9	9.2	8.4	100	
10/08/01 - 10/14/01	168	7.6	9.8	8.7	100	
10/15/01 - 10/21/01	168	7.7	9.9	8.5	100	
10/22/01 - 10/28/01	168	6.9	9.9	8.8	100	
10/29/01 - 11/04/01	156	9.6	10.8	10.0	100	
11/05/01 - 11/11/01	168	9.8	12.4	10.6	100	
11/12/01 - 11/18/01	168	11.6	14.4	12.6	100	
11/19/01 - 11/25/01	168	9.6	12.3	10.7	100	
11/26/01 - 12/02/01	168	9.3	11.0	10.0	100	
12/03/01 - 12/09/01	168	10.1	11.0	10.5	100	
12/10/01 - 12/16/01	168	9.1	11.5	10.4	100	
12/17/01 - 12/23/01	168	9.0	12.1	10.7	100	
12/24/01 - 12/30/01	168	11.6	14.5	13.3	100	
12/31/01 - 01/06/02	144	13.3	14.6	14.0	100	
01/07/02 - 01/13/02	168	12.9	14.6	13.9	100	
01/14/02 - 01/20/02	168	12.9	14.2	13.6	100	
01/21/02 - 01/27/02	168	12.4	13.9	13.0	100	
01/28/02 - 02/03/02	168	10.8	13.2	12.4	100	
02/04/02 - 02/10/02	168	11.5	13.6	12.5	100	
02/11/02 - 02/17/02	168	12.2	13.7	13.1	100	
02/18/02 - 02/24/02	168	12.5	13.7	13.0	100	
02/25/02 - 03/03/02	168	12.1	14.2	13.1	100	
03/04/02 - 03/10/02	168	11.6	15.2	13.2	100	
03/11/02 - 03/17/02	168	13.2	16.6	14.9	100	
03/18/02 - 03/24/02	168	13.8	16.1	14.9	100	
03/25/02 - 03/31/02	168	12.9	16.0	14.4	100	
04/01/02 - 04/07/02	168	12.1	14.0	13.1	100	
04/08/02 - 04/14/02	167	9.0	12.9	10.5	100	
04/15/02 - 04/21/02	168	7.5	11.2	9.1	100	
04/22/02 - 04/28/02	168	6.9	11.9	8.9	100	
04/29/02 - 05/05/02	61	8.0	12.4	9.5	100	
05/06/02 - 05/12/02	107	6.1	11.7	8.7	100	
05/13/02 - 05/19/02	168	3.9	11.0	7.6	99	
05/20/02 - 05/26/02	168	4.4	13.4	9.0	100	
05/27/02 - 06/02/02	61	2.9	9.6	6.1	90	
06/03/02 - 06/09/02	÷-		NO DATA	-	- •	

TABLE AII-4: WEEKLY DO SUMMARY STATISTICS AT C&W INDIANA RAIILROAD ON THE LITTLE CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002

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AII-7

Monitoring Dates	Number of	DO	Concentration	(mg/L)	Percent DO Values
	DO Values	Min	Max	Mean	Above Standard
06/10/02 - 06/16/02			NO DATA		
06/17/02 - 06/23/02	108	1.8	10.3	5.8	86
06/24/02 - 06/30/02	168	1.7	7.5	3.9	43
07/01/02 - 07/07/02	168	0.7	7.9	3.0	22
07/08/02 - 07/14/02	168 -	0.7	9.7	3.9	41
07/15/02 - 07/21/02	168	4.0	11.1	6.4	99
07/22/02 - 07/28/02	168	5.3	9.7	7.1	100
07/29/02 - 08/04/02	168	3.6	9.4	6.7	99
08/05/02 - 08/11/02	168	5.0	10.5	7.5	100
08/12/02 - 08/18/02	168	5.2	8.8	6.7	100
08/19/02 - 08/25/02	167	5.7	7.8	6.8	100
08/26/02 - 09/01/02	168	6.8	11.4	8.3	100
09/02/02 - 09/08/02	168	5.9	9.6	7.6	100
09/09/02 - 09/15/02	168	6.3	11.2	7.9	100
09/16/02 - 09/22/02	168	5.5	9.1	7.1	100
09/23/02 - 09/29/02	168	6.7	10.6	8.6	100
09/30/02 - 10/06/02	168	5.4	10.4	7.7	100
10/07/02 - 10/13/02	168	6.2	9.2	7.6	100
10/14/02 - 10/20/02	168	7.6	9.7	8.6	100
10/21/02 - 10/27/02	168	8.3	10.0	9.3	100
10/28/02 - 11/03/02	168	8.9	11.4	10.1	100
11/04/02 - 11/10/02	168	9.1	11.9	10.9	100
11/11/02 - 11/17/02	168	9.0	11.1	10.0	100
11/18/02 - 11/24/02	168	9.9	12.7	11.4	100
11/25/02 - 12/01/02	168	12.0	13.7	13.0	100
12/02/02 - 12/08/02	168	12.7	14.0	13.5	100
12/09/02 - 12/15/02	168	12.0	14.1	12.8	100
12/16/02 - 12/22/02	168	12.4	13.7	13.0	100
12/23/02 - 12/29/02	168	12.3	13.6	13.1	100
12/30/02 - 12/31/02	48	12.4	13.2	12.8	100

TABLE AII-4 (Continued):WEEKLY DO SUMMARY STATISTICS AT C&W INDIANA RAIILROAD ON
THE LITTLE CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	DO (Concentration	(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
07/09/01 - 07/15/01	109	4.5	12.8	8.4	100
07/16/01 - 07/22/01	168	4.0	9.4	6.3	100
07/23/01 - 07/29/01	168	3.1	7.6	5.2	92
07/30/01 - 08/05/01	168	2.5	11.6	6.4	93
08/06/01 - 08/12/01	167	4.4	12.3	7.1	100
08/13/01 - 08/19/01	168	41	7.6	57	100
08/20/01 - 08/26/01	167	4.1	7.0	5.8	100
08/27/01 - 09/02/01	168	43	9.8	6.5	100
09/03/01 - 09/09/01	168	4.6	9.0	6.5	100
09/10/01 = 09/16/01	168	4.0	75	6.2	100
09/17/01 = 09/23/01	168	4.9	7.5 8.4	6.2	100
09/24/01 09/20/01	168	57	7.0	0.2	100
10/01/01 10/07/01	168	5.7	7.9	6.2	100
	100	5.5	7.1	6.5	100
10/08/01 - 10/14/01	100	5.0	7.0	0.4	100
10/13/01 - 10/21/01	108	4.1	0.8	0.0	100
10/22/01 - 10/28/01	108	5.5	8.0	0.7	100
10/29/01 - 11/04/01	108	5.9	7.7	7.0	100
11/05/01 - 11/11/01	108	5.9	/.4	6.8	100
11/12/01 - 11/18/01	168	6.0	10.0	/.6	100
11/19/01 - 11/25/01	167	5.5	7.4	6.6	100
11/26/01 - 12/02/01	168	5.1	7.4	6.3	100
12/03/01 - 12/09/01	160	5.4	7.2	6.3	100
12/10/01 - 12/16/01	168	5.3	6.8	6.4	100
12/17/01 - 12/23/01	167	5.8	8.2	7.1	100
12/24/01 - 12/30/01	168	7.9	9.5	8.8	100
12/31/01 - 01/06/02	144	8.2	9.8	9.0	100
01/07/02 - 01/13/02	168	6.0	9.3	7.7	100
01/14/02 - 01/20/02	168	5.9	7.3	6.8	100
01/21/02 - 01/27/02	168	6.5	8.0	7.1	100
01/28/02 - 02/03/02	168	6.6	7.9	7.1	100
02/04/02 - 02/10/02	168	5.8	7.9	7.1	100
02/11/02 - 02/17/02	168	5.7	8.0	6.9	100
02/18/02 - 02/24/02	168	4.8	7.7	6.6	100
02/25/02 - 03/03/02	168	6.1	8.7	7.4	100
03/04/02 - 03/10/02	168	6.1	10.0	7.7	100
03/11/02 - 03/17/02	168	5.0	8.0	6.7	100
03/18/02 - 03/24/02	168	6.1	8.5	7.5	100
03/25/02 - 03/31/02	168	5.3	9.0	7.5	100
04/01/02 - 04/07/02	168	5.5	7.7	6.9	100
04/08/02 - 04/14/02	167	4.8	7.2	6.0	100
04/15/02 - 04/21/02	168	2.7	6.9	5.8	98
04/22/02 - 04/28/02	167	3.9	8.0	5.6	99
04/29/02 - 05/05/02	168	3.8	8.4	6.1	99
05/06/02 - 05/12/02	168	2.7	8.5	5.7	98
05/13/02 - 05/19/02	168	3.3	6.6	5.2	97
05/20/02 - 05/26/02	168	2.4	8.8	5.7	94

TABLE AII-5: WEEKLY DO SUMMARY STATISTICS AT HALSTED STREET ON THE LITTLE CALUMETRIVER FROM JULY 2001 THROUGH DECEMBER 2002

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2.2

9.3

8.5

5.3

5.6

87

91

168

168

05/27/02 - 06/02/02

06/03/02 - 06/09/02

	Number of		Concentration	(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
06/10/02 - 06/16/02	168	0.7	7.5	4.4	65
06/17/02 - 06/23/02	60	0.4	7.3	3.7	48
06/24/02 - 06/30/02	108	1.1	9.5	4.4	65
07/01/02 - 07/07/02	60	0.5	8.0	2.6	23
07/08/02 - 07/14/02			NO DATA		
07/15/02 - 07/21/02			NO DATA		
07/22/02 - 07/28/02	110	3.5	10.9	7.0	98
07/29/02 - 08/04/02	168	1.2	10.5	6.1	86
08/05/02 - 08/11/02	168	1.5	10.5	7.0	98
08/12/02 - 08/18/02	168	4.5	8.5	6.3	100
08/19/02 - 08/25/02	168	5.3	7.2	6.0	100
08/26/02 - 09/01/02	168	5.8	10.3	7.4	100
09/02/02 - 09/08/02	168	5.9	8.1	6.8	100
09/09/02 - 09/15/02	168	5.3	8.0	6.4	100
09/16/02 - 09/22/02	168	5.4	7.3	6.5	100
09/23/02 - 09/29/02	168	5.9	8.2	6.9	100
09/30/02 - 10/06/02	168	5.3	8.5	6.8	100
10/07/02 - 10/13/02	168	5.9	7.4	6.8	100
10/14/02 - 10/20/02	168	6.2	7.7	7.2	100
10/21/02 - 10/27/02	168	6.7	8.0	7.4	100
10/28/02 - 11/03/02	168	6.7	8.1	7.5	100
11/04/02 - 11/10/02	168	6.0	8.3	7.2	100
11/11/02 - 11/17/02	168	6.5	7.5	7.1	100
11/18/02 - 11/24/02	168	6.4	7.7	7.2	100
11/25/02 - 12/01/02	168	6.3	7.8	7.1	100
12/02/02 - 12/08/02	168	6.9	8.2	7.7	100
12/09/02 - 12/15/02	168	7.1	8.3	7.6	100
12/16/02 - 12/22/02	168	7.0	9.3	8.2	100
12/23/02 - 12/29/02	168	7.1	8.3	7.8	100
12/30/02 - 12/31/02	48	7.3	7.8	7.5	100

TABLE AII-5 (Continued): WEEKLY DO SUMMARY STATISTICS AT HALSTED STREET ON THE LITTLE CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002

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	Number of	DO	Concentration	(mg/L)	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard	
07/09/01 - 07/15/01	109	1.8	6.8	4.2	21	
07/16/01 - 07/22/01	168	2.3	6.5	3.9	17	
07/23/01 - 07/29/01	168	2.1	5.3	3.9	5	
07/30/01 - 08/05/01	168	2.4	7.0	4.2	18	
08/06/01 - 08/12/01	168	0.6	7.8	3.4	14	
08/13/01 - 08/19/01	168	1.6	4.9	3.4	0	
08/20/01 - 08/26/01	168	2.6	6.0	3.8	8	
08/27/01 - 09/02/01	168	2.6	47	37	0	
09/03/01 = 09/09/01	168	0.3	5.0	3.6	Õ	
09/10/01 = 09/16/01	168	2.5	6.8	2.0 4.6	37	
09/17/01 - 09/23/01	168	2.5	6.2	4.0	40	
09/24/01 - 09/20/01	168	2.1	6.5	4.7	40	
	168	-4.7	0.5	5.5	48	
	108	J.J 1 9	7.4	5.2	40	
	107	4.0	7.7 7 7	0.3	97	
	100	2.0	7.7	0.0 6 1	100	
10/22/01 - 10/28/01	108	3.9	1.1	0.1	80 81	
10/29/01 - 11/04/01	108	3.3 5.4	7.0	0.U	81	
	108	5.0	0.9	0.2	100	
	108	4.5	/./	0.1	8/	
11/19/01 - 11/25/01	108	4.8	8.8	0.8	98	
11/26/01 - 12/02/01	168	4.9	8.5	/.1	98	
12/03/01 - 12/09/01	168	6.4	8.9	1.1	100	
12/10/01 - 12/16/01	168	8.1	10.2	9.0	100	
12/1//01 - 12/23/01	168	8.3	10.0	9.2	100	
12/24/01 - 12/30/01	168	9.6	11.7	10.9	100	
12/31/01 - 01/06/02	144	10.6	12.1	11.4	100	
01/07/02 - 01/13/02	168	10.1	12.7	11.4	100	
01/14/02 - 01/20/02	167	10.6	15.3	12.8	100	
01/21/02 - 01/27/02	168	10.0	15.3	12.9	100	
01/28/02 - 02/03/02	167	9.5	15.0	11.7	100	
02/04/02 - 02/10/02	168	12.1	15.3	13.5	100	
02/11/02 - 02/17/02	168	11.6	18.5	14.4	100	
02/18/02 - 02/24/02	168	9.9	14.4	11.6	100	
02/25/02 - 03/03/02	168	10.6	13.0	11.7	100	
03/04/02 - 03/10/02	167	10.2	14.7	11.8	100	
03/11/02 - 03/17/02	167	9.0	12.4	10.6	100	
03/18/02 - 03/24/02	168	9.7	14.2	11.6	100	
03/25/02 - 03/31/02	60	11.1	14.0	12.5	100	
04/01/02 - 04/07/02			NO DATA			
04/08/02 - 04/14/02	107	7.3	9.0	8.2	100	
04/15/02 - 04/21/02	168	4.0	8.0	6.0	82	
04/22/02 - 04/28/02	168	6.7	9.7	8.0	100	
04/29/02 - 05/05/02	168	6.4	8.9	7.9	100	
05/06/02 - 05/12/02	168	4.0	8.9	6.4	85	
05/13/02 - 05/19/02	168	7.0	8.7	7.7	100	
05/20/02 - 05/26/02	168	5.5	9.0	7.7	100	
05/27/02 - 06/02/02	167	3.4	7.2	5.2	52	
06/03/02 - 06/09/02	168	3.6	6.1	4.7	35	

TABLE AII-6:WEEKLY DO SUMMARY STATISTICS AT ASHLAND AVENUE ON THE LITTLE
CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	DO (Concentration	(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
06/10/02 - 06/16/02	166	2.6	5.4	3.9	6
06/17/02 - 06/23/02	168	2.9	16.5	6.0	40
06/24/02 - 06/30/02	168	0.8	17.4	5.3	36
07/01/02 - 07/07/02	168	0.6	7.0	3.8	23
07/08/02 - 07/14/02	168	2.1	5.4	3.6	3
07/15/02 - 07/21/02	168	2.4	7.0	4.5	35
07/22/02 - 07/28/02	167	0.3	12.5	5.1	49
07/29/02 - 08/04/02	168	1.2	6.5	3.6	20
08/05/02 - 08/11/02	167	1.8	6.6	4.3	31
08/12/02 - 08/18/02	168	1.5	6.7	4.2	30
08/19/02 - 08/25/02	168	2.1	4.7	3.1	0
08/26/02 - 09/01/02	168	2.1	7.3	3.9	16
09/02/02 - 09/08/02	168	0.9	6.1	3.5	7
09/09/02 - 09/15/02	168	2.4	7.7	4.3	. 16
09/16/02 - 09/22/02	168	3.7	8.5	4.9	41
09/23/02 - 09/29/02	168	4.4	6.2	5.1	65
09/30/02 - 10/06/02	168	3.2	5.6	4.2	11
10/07/02 - 10/13/02	167	4.2	6.7	5.4	82
10/14/02 - 10/20/02	168	4.7	8.4	6.6	95
10/21/02 - 10/27/02	167	6.6	8.5	7.4	100
10/28/02 - 11/03/02	168	6.6	8.9	7.9	100
11/04/02 - 11/10/02	168	1.5	9.0	6.4	80
11/11/02 - 11/17/02	167	0.0	4.7	2.4	0
11/18/02 - 11/24/02	168	4.0	6.7	5.6	76
11/25/02 - 12/01/02	168	5.8	11.6	9.3	100
12/02/02 - 12/08/02	168	10.4	11.9	11.1	100
12/09/02 - 12/15/02	168	10.0	12.4	11.2	100
12/16/02 - 12/22/02	167	7.9	11.9	9.6	100
12/23/02 - 12/29/02	168	10.3	12.8	11.6	100
12/30/02 - 12/31/02	48	8.7	12.0	10.7	100

TABLE AII-6 (Continued):WEEKLY DO SUMMARY STATISTICS AT ASHLAND AVENUE ON THE
LITTLE CALUMET RIVER FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	DO	Concentration	(mg/L)	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard	
07/09/01 - 07/15/01	109	4.0	9.8	6.4	100	
07/16/01 - 07/22/01	168	2.4	8.4	4.8	94	
07/23/01 - 07/29/01	168	15	4.8	33	70	
07/30/01 - 08/05/01	168	2.1	10.3	4 5	89	
08/06/01 - 08/12/01	168	3.6	7.1	5.2	100	
08/13/01 - 08/19/01	168	3.2	5.4	44	100	
08/20/01 - 08/26/01	168	3.2	61	47	100	
08/27/01 - 09/02/01	168	3.8	87	54	100	
09/03/01 - 09/09/01	168	51	74	61	100	
09/10/01 - 09/16/01	168	52	69	61	100	
09/17/01 - 09/23/01	168	51	67	59	100	
09/24/01 - 09/30/01	168	5.6	7.4	65	100	
10/01/01 - 10/07/01	168	5.0	7.1	61	100	
10/08/01 - 10/14/01	168	4.5	69	61	100	
10/15/01 - 10/21/01	168	4.8	63	57	100	
10/22/01 - 10/28/01	60	51	73	5.8	100	
10/29/01 - 11/04/01	107	4 1	7.0	6.0	100	
11/05/01 - 11/11/01	168	57	7.0	63	100	
11/12/01 - 11/18/01	168	62	89	7.2	100	
11/19/01 - 11/25/01	168	5.9	7.0	6.5	100	
11/26/01 - 12/02/01	168	5.8	73	6.5	100	
12/03/01 - 12/09/01	168	5.6	7.3	6.5	100	
12/10/01 - 12/16/01	168	61	74	67	100	
12/17/01 - 12/23/01	168	6.5	84	7.2	100	
12/24/01 - 12/30/01	168	77	91	8.6	100	
12/31/01 - 01/06/02	144	83	92	8.8	100	
01/07/02 - 01/13/02	168	74	93	8.2	100	
01/14/02 - 01/20/02	168	7.0	9.0	8.0	100	
01/21/02 - 01/27/02	168	74	91	8 1	100	
01/28/02 - 02/03/02	168	77	10.1	85	100	
02/04/02 - 02/10/02	168	7.4	10.1	87	100	
02/11/02 - 02/17/02	168	74	93	84	100	
02/18/02 - 02/24/02	168	7.8	94	87	100	
02/25/02 - 03/03/02	168	7.8	9.0	8.5	100	
03/04/02 - 03/10/02	168	8.4	10.1	9.3	100	
03/11/02 - 03/17/02	168	6.6	9.8	8.0	100	
03/18/02 - 03/24/02	168	7.7	9.8	8.6	100	
03/25/02 - 03/31/02	168	7.4	10.2	8.9	100	
04/01/02 - 04/07/02	168	7.1	9.1	8.1	100	
04/08/02 - 04/14/02	167	5.7	8.2	6.9	100	
04/15/02 - 04/21/02	167	4.0	7.0	5.5	100	
04/22/02 - 04/28/02	168	5.3	7.6	6.2	100	
04/29/02 - 05/05/02	168	5.4	7.0	6.1	100	
05/06/02 - 05/12/02	168	4.6	8.1	5.7	100	
05/13/02 - 05/19/02	168	5.3	6.9	6.2	100	
05/20/02 - 05/26/02	168	4.2	7.2	6.0	100	
05/27/02 - 06/02/02	168	3.1	7.1	4.9	100	
06/03/02 - 06/09/02	168	4.1	7.5	5.1	100	

TABLE AII-7: WEEKLY DO SUMMARY STATISTICS AT DIVISION STREET ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

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Monitoring Dates	Number of	DO (Concentration	(mg/L)	Percent DO Values	
	DO Values	Min	Max	Mean	Above Standard	
06/10/02 - 06/16/02	168	3.0	6.2	4.1	99	
06/17/02 - 06/23/02	168	4.4	8.4	6.2	100	
06/24/02 - 06/30/02	168	1.3	8.0	4.4	83	
07/01/02 - 07/07/02	168	2.4	7.0	4.3	97	
07/08/02 - 07/14/02	168	2.4	6.5	4.1	88	
07/15/02 - 07/21/02	168	3.3	8.5	5.0	100	
07/22/02 - 07/28/02	168	2.8	8.7	5.8	99	
07/29/02 - 08/04/02	168	3.8	7.6	5.6	100	
08/05/02 - 08/11/02	168	3.9	8.0	6.3	100	
08/12/02 - 08/18/02	168	4.1	7.6	5.6	100	
08/19/02 - 08/25/02	168	4.3	6.0	5.2	100	
08/26/02 - 09/01/02	168	5.1	7.9	6.5	100	
09/02/02 - 09/08/02	168	4.5	8.0	6.0	100	
09/09/02 - 09/15/02	168	5.0	9.0	6.1	100	
09/16/02 - 09/22/02	168	4.6	6.6	5.5	100	
09/23/02 - 09/29/02	168	5.2	7.6	6.3	100	
09/30/02 - 10/06/02	168	5.1	7.9	6.4	100	
10/07/02 - 10/13/02	168	5.7	7.1	6.4	100	
10/14/02 - 10/20/02	168	6.4	7.5	6.9	100	
10/21/02 - 10/27/02	168	6.6	7.5	7.1	100	
10/28/02 - 11/03/02	168	6.7	8.0	7.4	100	
11/04/02 - 11/10/02	168	6.2	8.1	7.2	100	
11/11/02 - 11/17/02	168	5.0	7.1	6.2	100	
11/18/02 - 11/24/02	168	6.4	7.3	6.9	100	
11/25/02 - 12/01/02	168	7.0	8.2	7.6	100	
12/02/02 - 12/08/02	168	7.7	9.0	8.3	100	
12/09/02 - 12/15/02	168	7.7	8.8	8.2	100	
12/16/02 - 12/22/02	168	7.5	9.0	8.5	100	
12/23/02 - 12/29/02	168	8.2	9.1	8.7	100	
12/30/02 - 12/31/02	48	7.2	8.6	8.1	100	

TABLE AII-7 (Continued): WEEKLY DO SUMMARY STATISTICS AT DIVISION STREET ON THE
CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	DO	Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
07/09/01 - 07/15/01	108	5.5	13.3	7.4	100
07/16/01 - 07/22/01	168	2.7	10.4	5.8	99
07/23/01 - 07/29/01	168	1.6	54	4.0	86
07/30/01 - 08/05/01	168	2.5	12.0	53	96
08/06/01 - 08/12/01	168	3.5	10.6	6.0	100
08/13/01 - 08/19/01	168	37	61	5.0	100
08/20/01 - 08/26/01	168	3.8	6.4	5.0	100
08/27/01 = 09/02/01	168	47	8.0	62	100
09/03/01 = 09/09/01	168	51	8.0	6.4	100
09/10/01 = 09/16/01	168	53	71	6.1	100
00/17/01 - 09/10/01	168	5.0	7.1	6.1	100
00/24/01 - 00/20/01	108	5.4	7.0	6.0	100
10/01/01 10/07/01	108	5.0	8.U 7 7	0.9	100
	108	5.9	7.7	0.8	100
10/08/01 - 10/14/01	108	4.2	7.4	0.5	100
10/15/01 - 10/21/01	108	4.8	7.2	0.3	100
10/22/01 - 10/28/01	108	5.8	7.8	0.9	100
10/29/01 - 11/04/01	108	4./	8.1	7.0	100
11/05/01 - 11/11/01	108	5.9	1.2	0.0	100
11/12/01 - 11/18/01	168	6.5	8.7	1.2	100
11/19/01 - 11/25/01	168	6.0	7.0	6.5	100
11/26/01 - 12/02/01	168	5.8	7.2	6.6	100
12/03/01 - 12/09/01	168	5.9	7.3	6.6	100
12/10/01 - 12/16/01	168	6.4	7.6	6.9	100
12/17/01 - 12/23/01	168	6.8	8.8	7.5	100
12/24/01 - 12/30/01	168	8.4	9.3	8.8	100
12/31/01 - 01/06/02	144	8.3	9.1	8.7	100
01/07/02 - 01/13/02	168	7.8	9.0	8.3	100
01/14/02 - 01/20/02	168	7.2	8.8	8.0	100
01/21/02 - 01/27/02	168	7.8	8.8	8.3	100
01/28/02 - 02/03/02	168	7.7	9.2	8.4	100
02/04/02 - 02/10/02	168	7.7	9.5	8.7	100
02/11/02 - 02/17/02	168	7.8	9.4	8.8	100
02/18/02 - 02/24/02	168	8.1	9.7	9.0	100
02/25/02 - 03/03/02	168	8.5	10.1	9.3	100
03/04/02 - 03/10/02	168	9.2	11.6	10.2	100
03/11/02 - 03/17/02	168	7.3	10.7	8.4	100
03/18/02 - 03/24/02	168	7.9	10.7	8.9	100
03/25/02 - 03/31/02	168	. 8.1	10.4	9.2	100
04/01/02 - 04/07/02	168	8.0	9.9	9.1	100
04/08/02 - 04/14/02	167	6.3	9.3	7.7	100
04/15/02 - 04/21/02	167	5.1	8.2	6.4	100
04/22/02 - 04/28/02	168	6.4	8.3	7.1	100
04/29/02 - 05/05/02	60	6.9	8.3	7.4	100
05/06/02 - 05/12/02	108	5.8	8.4	6.7	100
05/13/02 - 05/19/02	168	5.9	7.4	6.6	100
05/20/02 - 05/26/02	168	5.5	8.4	7.0	100
05/27/02 - 06/02/02	168	5.2	8.3	6.4	100
06/03/02 - 06/09/02	168	5.4	8.2	6.3	100

TABLE AII-8: WEEKLY DO SUMMARY STATISTICS AT KEDZIE AVENUE ON THE CALUMET-SAG
CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

Monitoring Dates	Number of	DO	Concentration	Percent DO Values	
	DO Values	Min	Max	Mean	Above Standard
06/10/02 - 06/16/02	168	4.2	8.1	5.5	100
06/17/02 - 06/23/02	168	5.3	11.2	7.6	100
06/24/02 - 06/30/02	168	3.3	12.3	5.8	100
07/01/02 - 07/07/02	168	3.9	9.7	5.7	100
07/08/02 - 07/14/02	168	3.8	7.2	5.1	100
07/15/02 - 07/21/02	168	4.2	9.8	6.1	100
07/22/02 - 07/28/02	168	4.1	· 9.7	6.6	100
07/29/02 - 08/04/02	168	5.2	8.3	6.5	100
08/05/02 - 08/11/02	168	4.0	7.7	6.4	100
08/12/02 - 08/18/02	168	3.8	7.5	5.3	100
08/19/02 - 08/25/02	168	4.4	6.6	5.5	100
08/26/02 - 09/01/02	168	5.5	8.9	6.9	100
09/02/02 - 09/08/02	168	4.9	8.8	6.5	100
09/09/02 - 09/15/02	168	5.3	8.9	6.7	. 100
09/16/02 - 09/22/02	168	5.1	7.0	6.0	100
09/23/02 - 09/29/02	168	5.7	8.5	6.8	100
09/30/02 - 10/06/02	168	5.4	8.1	6.8	100
10/07/02 - 10/13/02	168	6.1	8.4	7.0	100
10/14/02 - 10/20/02	168	6.7	8.2	7.3	100
10/21/02 - 10/27/02	168	6.8	8.4	7.6	100
10/28/02 - 11/03/02	168	7.1	9.2	8.2	100
11/04/02 - 11/10/02	168	7.2	9.1	8.3	100
11/11/02 - 11/17/02	168	4.8	7.5	6.2	100
11/18/02 - 11/24/02	168	6.0	7.6	6.9	100
11/25/02 - 12/01/02	168	7.1	8.5	7.8	100
12/02/02 - 12/08/02	168	8.0	8.9	8.4	100
12/09/02 - 12/15/02	168	7.6	8.8	8.2	100
12/16/02 - 12/22/02	168	7.8	10.2	8.8	100
12/23/02 - 12/29/02	168	8.5	9.4	8.8	100
12/30/02 - 12/31/02	48	8.0	8.6	8.3	100

TABLE AII-8 (Continued):WEEKLY DO SUMMARY STATISTICS AT KEDZIE AVENUE ON THE
CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

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TABLE AII-9: WEEKLY DO SUMMARY STATISTICS AT CICERO AVENUE ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

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	Number of	DO	Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
07/09/01 - 07/15/01	108	4.6	9.4	6.8	100
07/16/01 - 07/22/01	168	2.8	10.3	5.7	99
07/23/01 - 07/29/01	168	2.3	5.6	4.2	88
07/30/01 - 08/05/01	168	2.1	9.3	5.2	90
08/06/01 - 08/12/01	168	3.6	9.9	6.0	100
08/13/01 - 08/19/01	168	3.3	5.6	4.6	100
08/20/01 - 08/26/01	61	4.1	5.4	4.9	100
08/27/01 - 09/02/01	108	5.1	7.9	6.3	100
09/03/01 - 09/09/01	167	5.1	7.8	6.2	100
09/10/01 - 09/16/01	168	53	69	6.1	100
09/17/01 - 09/23/01	168	5 5	6.5	59	100
09/24/01 - 09/30/01	168	5.5	74	6.6	100
10/01/01 - 10/07/01	168	5.5	73	6.5	100
10/08/01 - 10/14/01	168	35	7.1	6.2	100
10/15/01 - 10/21/01	168	3.9	6.6	61	100
10/22/01 - 10/28/01	168	57	75	6.8	100
10/29/01 - 11/04/01	167	44	8.1	7.0	100
11/05/01 - 11/11/01	168	59	6.8	63	100
11/12/01 - 11/18/01	168	61	8.2	7.0	100
11/19/01 - 11/25/01	168	6.0	73	6.5	100
11/26/01 - 12/02/01	168	57	7.5	6.5	100
12/03/01 - 12/09/01	168	57	7.5	6.5	100
12/10/01 - 12/16/01	168	57	7.5	6.6	100
12/17/01 - 12/23/01	167	64	82	73	100
12/24/01 - 12/30/01	168	8.2	97	9.0	100
12/31/01 - 01/06/02	144	84	92	8.8	100
01/07/02 - 01/13/02	168	8.0	8.7	8.4	100
01/14/02 - 01/20/02	168	6.3	8.2	71	100
01/21/02 - 01/27/02	168	6.5	9.0	79	100
01/28/02 - 02/03/02	167	8.0	9.8	86	100
02/04/02 - 02/10/02	168	83	10.8	9.6	100
02/11/02 - 02/17/02	168	8.5	10.0	9.2	100
02/18/02 - 02/24/02	168	8.3	9.7	9.0	100
02/25/02 - 03/03/02	168	8.5	9.6	8.9	100
03/04/02 - 03/10/02	168	8.9	10.3	9.4	100
03/11/02 - 03/17/02	168	7.3	9.9	8.4	100
03/18/02 - 03/24/02	168	7.6	10.0	8.7	100
03/25/02 - 03/31/02	60	8.8	9.5	9.1	100
04/01/02 - 04/07/02			NO DATA		100
04/08/02 - 04/14/02	108	5.9	7.9	7.1	100
04/15/02 - 04/21/02	168	4.8	7.3	6.3	100
04/22/02 - 04/28/02	167	5.5	7.9	6.7	100
04/29/02 - 05/05/02	168	5.5	7.9	6.6	100
05/06/02 - 05/12/02	168	4.7	8.4	6.2	100
05/13/02 - 05/19/02	168	5.3	6.8	6.1	100
05/20/02 - 05/26/02	168	4.1	7.4	6.0	100
05/27/02 - 06/02/02	168	3.4	7.2	5.2	100
06/03/02 - 06/09/02	168	3.7	7.6	5.3	100

TABLE AII-9 (Continued):WEEKLY DO SUMMARY STATISTICS AT CICERO AVENUE ON THE
CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	DO (Concentration	(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
06/10/02 - 06/16/02	168	3.9	6.9	5.1	100
06/17/02 - 06/23/02	168	4.9	11.6	6.7	100
06/24/02 - 06/30/02	168	2.5	9.2	5.1	97
07/01/02 - 07/07/02	167	1.4	7.0	4.3	90
07/08/02 - 07/14/02	168	1.1	7.2	3.9	75
07/15/02 - 07/21/02	168	2.9	8.8	5.2	99
07/22/02 - 07/28/02	168	3.3	8.9	6.4	100
07/29/02 - 08/04/02	168	4.9	8.3	6.3	100
08/05/02 - 08/11/02	168	4.1	8.4	6.2	100
08/12/02 - 08/18/02	168	5.1	7.4	5.9	100
08/19/02 - 08/25/02	168	4.5	6.2	5.6	100
08/26/02 - 09/01/02	168	5.1	9.7	6.8	100
09/02/02 - 09/08/02	168	5.4	8.5	6.5	100
09/09/02 - 09/15/02	168	5.6	8.8	6.8	100
09/16/02 - 09/22/02	168	5.3	6.8	6.0	100
09/23/02 - 09/29/02	168	5.3	7.9	6.6	100
09/30/02 - 10/06/02	167	5.0	8.0	6.5	100
10/07/02 - 10/13/02	168	5.7	7.8	6.7	100
10/14/02 - 10/20/02	168	6.0	7.8	6.9	100
10/21/02 - 10/27/02	168	7.0	8.1	7.5	100
10/28/02 - 11/03/02	168	7.0	9.1	8.2	100
11/04/02 - 11/10/02	168	7.8	9.1	8.5	100
11/11/02 - 11/17/02	168	5.7	7.8	6.8	100
11/18/02 - 11/24/02	168	6.5	7.7	7.1	100
11/25/02 - 12/01/02	168	7.1	9.4	8.0	100
12/02/02 - 12/08/02	168	8.0	9.0	8.6	100
12/09/02 - 12/15/02	168	8.1	8.9	8.5	100
12/16/02 - 12/22/02	168	7.7	9.2	8.5	100
12/23/02 - 12/29/02	168	8.3	9.1	8.7	100
12/30/02 - 12/31/02	48	7.6	8.6	8.3	100

	Number of	Percent DO Values			
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
0//09/01 - 0//15/01			NODATA		
0//16/01 - 0//22/01	100	17	NODATA	2.4	65
0//23/01 - 0//29/01	109	1.7	4.5	3.4	20
0//30/01 - 08/05/01	108	2.5	9.4	4./	100
08/00/01 - 08/12/01	108 .	3.3	9.0	0.1	100
08/13/01 - 08/19/01	100	2.0	5.0	4.1	100
08/20/01 - 08/20/01	100	5.7	0.4	5.0	100
08/27/01 - 09/02/01	100	4.5	8.0	6.0	100
09/03/01 - 09/09/01	108	4.9	8.1 6 0	0.4	100
09/10/01 - 09/10/01	108	4.5	6.9	5.0	100
09/17/01 - 09/23/01	108	2.3	0.1	5.7	100
09/24/01 - 09/30/01	108	4.9	0.8	5.9	100
	108	4.7	0.0	5.8	100
10/08/01 - 10/14/01	108	3.2	7.0	0.U 5 0	100
10/15/01 - 10/21/01	108	3.2 5.2	0.5	3.8 4 2	100
10/22/01 - 10/28/01	108	3.3	7.2	0.3	100
10/29/01 - 11/04/01	108	4.9	/.4 2 0	0.7	100
	108	4.5	0.8	6.1	100
11/12/01 - 11/18/01	108	5.9	7.5	6.5	100
11/19/01 - 11/25/01	108	5.0	7.5	0.7	100
12/02/01 12/02/01	108	5.0 5.7	7.2	0.0	100
12/10/01 12/16/01	168	5.7	7.2	0.5	100
12/17/01 12/23/01	168	5.0	7.2 8 1	0.4	100
12/24/01 12/20/01	168	7.0	10.5	7.5	100
12/24/01 = 12/30/01 12/31/01 = 01/06/02	108	80	10.5	9.5	100
01/07/02 = 01/13/02	168	70	10.0	2.4 9.7	100
01/07/02 = 01/15/02	167	7.9	<i>7.7</i>	0.7	100
01/21/02 = 01/20/02	168	7.0	0.0 8.6	0.3	100
01/21/02 = 01/21/02 01/28/02 = 02/03/02	168	0.0 7 8	0.0	8.J 8.J	100
01/28/02 = 02/05/02	168	8.2	· 10.1	0.4	100
02/04/02 = 02/10/02	168	83	0.0	9.5	100
02/18/02 = 02/24/02	168	79	9.9	9.0	100
02/18/02 = 02/24/02	168	83	9.2	87	100
02/23/02 = 03/03/02	168	8.2	10.1	80	100
03/11/02 = 03/17/02	168	7.0	88	70	100
03/18/02 = 03/24/02	168	7.0	0.0	8.2	100
03/25/02 - 03/24/02	168	8.4	10.6	0.2 0 /	100
03/23/02 = 03/31/02	168	8.0	0.0	2. 4 0.0	100
04/08/02 = 04/14/02	167	6.0	9.0	7.5	100
04/15/02 = 04/21/02	168	5.2	79	64	100
04/22/02 - 04/28/02	168	5.8	7.9	7.0	100
04/29/02 - 05/05/02	168	6.8	85	7.0	100
05/06/02 - 05/12/02	168	5.4	8.0	6.7	100
05/13/02 - 05/19/02	168	5.3	7.0	6.0	100
05/20/02 - 05/26/02	168	4.9	7.0	63	100
05/27/02 - 06/02/02	168	4.9	75	6.0	100
06/03/02 - 06/09/02	168	4.8	7.3	5.7	100

TABLE AII-10: WEEKLY DO SUMMARY STATISTICS AT RIVER MILE 311.7 ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

	Number of <u>I</u>		Concentration	(mg/L)	Percent DO Values
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
06/10/02 - 06/16/02	168	3.4	6.1	4.9	100
06/17/02 - 06/23/02	59	4.1	6.6	5.2	100
06/24/02 - 06/30/02	109	3.0	6.6	4.3	100
07/01/02 - 07/07/02	168	3.4	7.7	5.2	100
07/08/02 - 07/14/02	168	2.7	8.8	4.9	97
07/15/02 - 07/21/02	167	4.9	12.2	7.3	100
07/22/02 - 07/28/02	168	5.4	9.4	6.8	100
07/29/02 - 08/04/02	168	4.9	8.4	6.3	100
08/05/02 - 08/11/02	168	3.5	8.4	6.4	100
08/12/02 - 08/18/02	167	3.9	6.8	5.3	100
08/19/02 - 08/25/02	168	4.1	6.7	5.4	100
08/26/02 - 09/01/02	168	4.6	10.2	7.1	100
09/02/02 - 09/08/02	168	5.5	8.9	6.7	100
09/09/02 - 09/15/02	168	5.7	10.9	7.8	100
09/16/02 - 09/22/02	60	5.6	7.9	6.2	100
09/23/02 - 09/29/02			NO DATA		
09/30/02 - 10/06/02	83	5.0	7.4	6.4	100
10/07/02 - 10/13/02	168	5.5	7.4	6.5	100
10/14/02 - 10/20/02	168	6.6	8.0	7.2	100
10/21/02 - 10/27/02	168	7.0	8.2	7.6	100
10/28/02 - 11/03/02	168	7.3	8.6	7.9	100
11/04/02 - 11/10/02	168	7.7	9.5	8.2	100
11/11/02 - 11/17/02	168	5.1	8.1	6.5	100
11/18/02 - 11/24/02	168	6.1	7.5	6.8	100
11/25/02 - 12/01/02	168	6.9	9.7	7.9	100
12/02/02 - 12/08/02	168	8.4	9.6	8.8	100
12/09/02 - 12/15/02	168	8.6	10.0	9.3	100
12/16/02 - 12/22/02	168	7.6	10.0	8.8	100
12/23/02 - 12/29/02	168	8.4	9.6	9.2	100
12/30/02 - 12/31/02	48	7.8	9.3	8.7	100

9.3

8.7

100

TABLE AII-10 (Continued): WEEKLY DO SUMMARY STATISTICS AT RIVER MILE 311.7 ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	DO	Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min Max Mean			Above Standard
	<u> </u>		· · · · · · · · · · · · · · · · · · ·		
07/09/01 - 07/15/01			NO DATA		
07/16/01 - 07/22/01			NO DATA		
07/23/01 - 07/29/01			NO DATA		
07/30/01 - 08/05/01	108	2.8	7.3	4.7	94
08/06/01 - 08/12/01	168	3.6	9.6	5.8	100
08/13/01 - 08/19/01	168	2.9	6.2	4.2	99
08/20/01 - 08/26/01	168	2.2	5.4	4.0	87
08/27/01 - 09/02/01	168	2.4	8.7	5.4	93
09/03/01 - 09/09/01	168	4.5	8.5	6.4	100
09/10/01 - 09/16/01	168	4.8	6.6	5.6	100
09/17/01 - 09/23/01	61	4.9	5.9	5.6	100
09/24/01 - 09/30/01	108	5.6	7.3	6.5	100
10/01/01 - 10/07/01	168	5.3	8.0	6.6	100
10/08/01 - 10/14/01	168	4.8	74	6.6	100
10/15/01 - 10/21/01	168	4.5	7.0	6.2	100
10/22/01 - 10/28/01	168	5.2	8.0	6.9	100
10/29/01 - 11/04/01	168	57	84	7.2	100
11/05/01 - 11/11/01	168	4 5	6.8	6.0	¹⁰⁰
11/12/01 - 11/18/01	168	61	7.5	6.5	100
11/19/01 - 11/25/01	168	6.0	7.5 7 7	67	100
11/26/01 - 12/02/01	168	6.0	7.7	6.5	100
12/03/01 - 12/02/01	168	5.8	7.0	6.5	100
12/10/01 - 12/16/01	168	5.6	7.1	6.5	100
12/17/01 - 12/23/01	168	6.4	83	7 4	100
12/24/01 - 12/30/01	168	8 1	10.3	0.7	100
12/31/01 - 01/06/02	144	8 Q	10.5	9.2	100
$\frac{12}{91}\frac{91}{91} = \frac{01}{13}\frac{00}{92}$	168	8.4	0.5	0.0	100
01/07/02 = 01/15/02	168	0. 1 8 2	9.5	9.0	100
01/21/02 = 01/20/02	168	0.5	9.0	0.0	100
01/21/02 = 01/27/02	168	8.5	0.9	0.J 0 5	100
01/28/02 - 02/03/02	100	8.U 8.4	9.4	8.J	100
02/04/02 = 02/10/02	169	0.4	10.1	9.0	100
02/11/02 - 02/11/02	100	0.5 7 0	9.7	8.9	100
02/18/02 - 02/24/02 02/25/02 - 03/03/02	100	7.9	9.0	8.0	100
02/23/02 = 03/03/02	168	0.4	9.4	8.8	100
03/04/02 - 03/10/02	100	0.0 7 7	10.4	9.2	100
03/11/02 - 03/11/02	108	1.1	9.3	8.5	100
03/18/02 - 03/24/02	108	/.0	10.2	8.8	100
03/25/02 - 03/31/02	108	8.3	10.0	9.4	100
04/01/02 - 04/07/02	168	7.8	9.5	8.7	100
04/08/02 - 04/14/02	16/	5.9	9.1	7.3	100
04/15/02 - 04/21/02	168	5.3	7.7	6.5	100
04/22/02 - 04/28/02	168	5.7	7.9	7.0	100
04/29/02 - 05/05/02	168	6.8	8.7	/.5	100
05/06/02 - 05/12/02	167	4.9	8.3	6.7	100
05/13/02 - 05/19/02	168	5.0	6.7	5.9	100
05/20/02 - 05/26/02	168	4.6	7.0	6.2	100
05/2//02 - 06/02/02	168	4.7	7.4	5.9	100
06/03/02 - 06/09/02	168	4.8	6.9	5.7	100

TABLE AII-11: WEEKLY DO SUMMARY STATISTICS AT SOUTHWEST HIGHWAY ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

TABLE AII-11 (Continued): WEEKLY DO SUMMARY STATISTICS AT SOUTHWEST HIGHWAY ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

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	Number of	DO (Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
06/10/02 - 06/16/02	168	3.8	7.0	5.1	100
06/17/02 - 06/23/02	59	4.1	6.0	5.0	100
06/24/02 - 06/30/02	109	2.1	6.2	4.0	87
07/01/02 - 07/07/02	168	3.0	7.4	5.2	100
07/08/02 - 07/14/02	168	3.0	8.9	5.2	100
07/15/02 - 07/21/02	168	3.2	11.9	6.5	100
07/22/02 - 07/28/02	168	4.1	9.1	6.1	100
07/29/02 - 08/04/02	168	5.1	9.4	7.0	100
08/05/02 - 08/11/02	168	5.2	8.5	6.7	100
08/12/02 - 08/18/02	168	4.9	7.4	6.0	100
08/19/02 - 08/25/02	168	4.1	6.8	5.7	100
08/26/02 - 09/01/02	168	5.5	10.2	7.1	100
09/02/02 - 09/08/02	168	5.0	9.2	6.6	100
09/09/02 - 09/15/02	168	5.6	11.2	7.8	100
09/16/02 - 09/22/02	168	4.8	7.8	6.0	100
09/23/02 - 09/29/02	168	5.5	8.4	6.9	100
09/30/02 - 10/06/02	168	5.1	8.4	6.5	100
10/07/02 - 10/13/02	167	5.6	7.6	6.8	100
10/14/02 - 10/20/02	168	6.9	9.0	7.7	100
10/21/02 - 10/27/02	168	7.5	9.3	8.2	100
10/28/02 - 11/03/02	168	7.8	9.5	8.7	100
11/04/02 - 11/10/02	168	7.2	9.5	8.3	100
11/11/02 - 11/17/02	168	5.4	7.7	6.5	100
11/18/02 - 11/24/02	168	5.9	7.6	6.9	100
11/25/02 - 12/01/02	168	7.0	9.5	7.9	100
12/02/02 - 12/08/02	168	8.6	9.8	9.2	100
12/09/02 - 12/15/02	168	8.4	9.5	8.8	100
12/16/02 - 12/22/02	168	7.3	9.1	8.3	100
12/23/02 - 12/29/02	168	7.9	9.4	9.0	100
12/30/02 - 12/31/02	48	8.6	9.5	8.9	100

	Number of	DO	Concentration	Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard
07/09/01 - 07/15/01	59	4.5	10.5	6.8	100
07/16/01 - 07/22/01	168	4.0	11.9	8.2	100
07/23/01 - 07/29/01	168	1.4	4.4	2.9	42
07/30/01 - 08/05/01	168	1.5	6.2	3.7	67
08/06/01 - 08/12/01	85	1.5	8.4	52	84
08/13/01 - 08/19/01	83	3.6	51	43	100
08/20/01 - 08/26/01	168	41	62	5.1	100
08/27/01 = 09/02/01	161	41	85	57	100
09/03/01 - 09/09/01	168	51	83	6.8	100
09/10/01 = 09/16/01	168	43	6.5	5.0	100
09/17/01 - 09/23/01	168	5.0	6.0	55	100
09/24/01 = 09/30/01	168	5.0	7.0	5.5	100
10/01/01 - 10/07/01	168	5.5	7.0	6.4	100
10/08/01 - 10/14/01	8/	5.5	60	6.5	100
10/15/01 - 10/21/01	04	0.0		0.5	100
10/22/01 = 10/28/01			NODATA		
10/22/01 - 11/04/01			NODATA		
	50	5 8	KU DATA	6 7	100
	J 9 166	5.0	0.7	6.2	100
11/12/01 - 11/18/01	160	5.0 57	0.0	0.2	100
11/26/01 12/02/01	108	5.7	7.0	0.0	100
12/02/01 12/02/01	107	50	7.0	0.0	100
12/10/01 12/16/01	108	5.0	7.0	0.5	100
12/10/01 - 12/10/01	108	5.1 6 A	7.0	0.0	100
12/17/01 - 12/23/01 12/24/01 - 12/20/01	04	0.4		0.8	100
12/24/01 - 12/30/01			NODATA		
12/31/01 - 01/00/02	01	76	NU DATA	9.6	100
01/07/02 - 01/13/02	04 140	/.0	9.1	0.0	100
01/14/02 - 01/20/02	108	8.J	9.2	8.8	100
01/21/02 - 01/27/02	108	8.0 9.1	9.0	8.8	100
01/28/02 - 02/03/02	108	8.1 9.7	8.9	8.0 0.5	100
02/04/02 = 02/10/02	168	8./	10.1	9.5	100
02/11/02 - 02/11/02	107	8.4	10.2	9.4	100
02/18/02 - 02/24/02	108	8.1	9.4	8.8	100
02/25/02 - 03/03/02	108	7.8	9.7	8.8	100
03/04/02 = 03/10/02	108	8.9	10.9	9.6	100
03/11/02 - 03/17/02	108	7.9	10.0	8.9	100
03/18/02 - 03/24/02	108	7.8	10.4	9.0	100
03/25/02 - 03/31/02	108	8.8	10.3	9.5	100
04/01/02 - 04/0//02	84	8.1	9.0	8.6	100
04/08/02 - 04/14/02			NO DATA		
04/15/02 - 04/21/02			NO DATA		
04/22/02 - 04/28/02	00	~ ~	NUDATA	. .	
04/29/02 - 05/05/02	83	7.2	8.0	7.6	100
05/06/02 - 05/12/02	168	5.6	8.6	7.2	100
05/13/02 - 05/19/02	83	5.6	6.8	6.1	100
05/20/02 - 05/26/02	106	4.6	6.2	5.7	100
05/27/02 - 06/02/02	168	4.5	6.6	5.7	100
06/03/02 - 06/09/02	168	4.8	6.5	5.6	100

TABLE AII-12: WEEKLY DO SUMMARY STATISTICS AT 104th AVENUE ON THE CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

	Number of	Number of			Percent DO Values	
Monitoring Dates	DO Values	Min	Max	Mean	Above Standard	
06/10/02 - 06/16/02	168	4.4	6.9	5.3	100	
06/17/02 - 06/23/02	83	4.2	5.3	4.7	100	
06/24/02 - 06/30/02			NO DATA			
07/01/02 - 07/07/02	107	4.0	7.0	5.2	100	
07/08/02 - 07/14/02	168	2.6	8.0	4.8	98	
07/15/02 - 07/21/02	168	5.5	- 10.4	7.5	100	
07/22/02 - 07/28/02	168	5.5	8.5	6.5	100	
07/29/02 - 08/04/02	168	5.8	8.9	7.2	100	
08/05/02 - 08/11/02	168	5.3	8.5	6.6	100	
08/12/02 - 08/18/02	168	3.5	6.9	5.3	100	
08/19/02 - 08/25/02	168	3.7	6.1	5.1	100	
08/26/02 - 09/01/02	168	5.1	9.5	6.7	100	
09/02/02 - 09/08/02	84	3.9	7.3	5.6	100	
09/09/02 - 09/15/02	84	7.0	9.6	8.4	100	
09/16/02 - 09/22/02	168	4.7	7.8	5.9	100	
09/23/02 - 09/29/02	168	4.3	8.0	6.5	100	
09/30/02 - 10/06/02	168	5.5	7.8	6.8	100	
10/07/02 - 10/13/02	168	5.5	7.0	6.5	100	
10/14/02 - 10/20/02	84	6.8	7.4	7.0	100	
10/21/02 - 10/27/02	84	7.6	8.2	7.8	100	
10/28/02 - 11/03/02	168	7.4	9.6	8.5	100	
11/04/02 - 11/10/02	168	7.3	9.2	8.6	100	
11/11/02 - 11/17/02	168	5.9	8.0	7.2	100	
11/18/02 - 11/24/02	168	5.6	7.5	6.7	100	
11/25/02 - 12/01/02	168	7.0	8.6	7.6	100	
12/02/02 - 12/08/02	83	8.5	9.4	9.0	100	
12/09/02 - 12/15/02	85	8.8	9.1	8.9	100	
12/16/02 - 12/22/02	84	8.6	9.2	9.0	100	
12/23/02 - 12/29/02			NO DATA			
12/30/02 - 12/31/02	13	9.4	9.6	9.5	100	

TABLE AII-12 (Continued): WEEKLY DO SUMMARY STATISTICS AT 104th AVENUE ON THE
CALUMET-SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002
Monitoring Dates	Number of DO Values	DO Concentration (mg/L)			Percent DO Values
		Min	Max	Mean	Above Standard
07/09/01 - 07/15/01	107	2.5	6.5	4.5	97
07/16/01 - 07/22/01					
07/23/01 - 07/29/01	84	1.9	4.2	31	55
07/30/01 - 08/05/01	168	1.4	6.0	3.7	68
08/06/01 - 08/12/01	168	2.8	11.0	5.5	95
08/13/01 - 08/19/01	168	3.4	6.9	4.6	100
08/20/01 - 08/26/01	168	2.5	5.6	4.4	95
08/27/01 - 09/02/01	168	2.3	7.9	5.2	85
09/03/01 - 09/09/01	168	5.7	10.4	7.6	100
09/10/01 - 09/16/01	168	4.7	7.6	5.7	100
09/17/01 - 09/23/01	168	4.7	6.1	5.4	100
09/24/01 - 09/30/01	168	5.2	7.2	6.1	100
10/01/01 - 10/07/01	168	5.3	7.5	6.5	100
10/08/01 - 10/14/01	168	5.3	7.2	6.3	100
10/15/01 - 10/21/01	144	4.2	6.4	5.7	100
10/22/01 - 10/28/01	168	5.6	7.8	6.7	100
10/29/01 - 11/04/01	168	6.5	7.6	7.2	100
11/05/01 - 11/11/01	168	4.6	7.1	6.0	100
11/12/01 - 11/18/01	167	4.5	6.7	6.2	100
11/19/01 - 11/25/01	168	5.5	7.5	6.8	100
11/26/01 - 12/02/01	168	6.3	7.5	6.8	100
12/03/01 - 12/09/01	168	5.8	7.1	6.5	100
12/10/01 - 12/16/01	168	5.7	7.0	6.4	100
12/17/01 - 12/23/01	168	6.3	8.3	7.2	100
12/24/01 - 12/30/01	168	8.2	10.1	9.3	100
12/31/01 - 01/06/02	144	9.7	10.2	9.9	100
01/07/02 - 01/13/02	168	8.8	10.4	9.8	100
01/14/02 - 01/20/02	168	8.3	9.9	9.4	100
01/21/02 - 01/27/02	168	6.6	9.0	8.3	100
01/28/02 - 02/03/02	168	7.6	8.9	8.3	100
02/04/02 - 02/10/02	168	7.8	10.2	8.8	100
02/11/02 - 02/17/02	168	7.4	10.2	8.8	100
02/18/02 - 02/24/02	168	8.7	11.1	9.3	100
02/25/02 - 03/03/02	168	8.9	10.4	9.4	100
03/04/02 - 03/10/02	168	9.2	12.1	10.3	100
03/11/02 - 03/17/02	168	8.1	11.5	9.7	100
03/18/02 - 03/24/02	168	7.8	10.5	9.0	100
03/25/02 - 03/31/02	168	9.3	10.8	10.1	100
04/01/02 - 04/07/02	167	8.3	9.8	9.0	100
04/08/02 - 04/14/02	167	6.8	9.3	7.8	100
04/15/02 - 04/21/02	168	6.1	8.1	6.8	100
04/22/02 - 04/28/02	167	5.4	8.4	7.3	100
04/29/02 - 05/05/02	168	6.4	8.1	7.3	100
05/06/02 - 05/12/02	168	5.3	8.1	6.8	100
05/13/02 - 05/19/02	168	5.5	6.7	6.1	100
05/20/02 - 05/26/02	167	5.1	7.0	6.3	100
05/27/02 - 06/02/02	168	4.6	7.5	5.8	100
06/03/02 - 06/09/02	168	4.4	6.5	5.4	100

TABLE AII-13:WEEKLY DO SUMMARY STATISTICS AT ROUTE 83 ON THE CALUMET-SAG
CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

Monitoring Dates	Number of DO Values	DO Concentration (mg/L)			Percent DO Values			
		Min	Max	Mean	Above Standard			
06/10/02 - 06/16/02	168	3.5	6.1	4.5	100			
06/17/02 - 06/23/02	168	3.9	12.1	6.4	100			
06/24/02 - 06/30/02	168	2.1	12.0	6.0	84			
07/01/02 - 07/07/02	168	1.7	6.4	4.3	81			
07/08/02 - 07/14/02	168	2.1	5.6	3.5	77			
07/15/02 - 07/21/02	82	0.0	8.6	4.0	72			
07/22/02 - 07/28/02	85	3.8	6.9	4.9	100			
07/29/02 - 08/04/02	168	4.6	8.2	6.1	100			
08/05/02 - 08/11/02	168	4.3	9.1	6.2	100			
08/12/02 - 08/18/02	167	3.2	7.2	5.0	100			
08/19/02 - 08/25/02	168	2.6	5.6	4.4	98			
08/26/02 - 09/01/02	168	4.5	10.7	6.9	100			
09/02/02 - 09/08/02	168	3.9	9.2	6.9	100			
09/09/02 - 09/15/02	168	5.4	11.0	7.8	100			
09/16/02 - 09/22/02	168	4.9	9.0	6.2	100			
09/23/02 - 09/29/02	168	4.3	7.5	6.1	100			
09/30/02 - 10/06/02	168	5.3	7.8	6.4	100			
10/07/02 - 10/13/02	168	5.1	7.1	6.2	100			
10/14/02 - 10/20/02	168	5.9	8.1	7.1	100			
10/21/02 - 10/27/02	168	6.5	8.1	7.7	100			
10/28/02 - 11/03/02	168	6.1	9.1	8.0	100			
11/04/02 - 11/10/02	168	7.5	9.0	8.4	100			
11/11/02 - 11/17/02	168	5.8	7.9	7.1	100			
11/18/02 - 11/24/02	168	5.8	7.4	6.6	100			
11/25/02 - 12/01/02	168	6.9	8.9	7.8	100			
12/02/02 - 12/08/02	83	8.5	9.4	9.1	100			
12/09/02 - 12/15/02	NO DATA							
12/16/02 - 12/22/02	84	8.3	9.0	8.7	100			
12/23/02 - 12/29/02	168	8.3	9.6	8.8	100			
12/30/02 - 12/31/02	48	9.3	9.7	9.5	100			

TABLE AII-13 (Continued): WEEKLY DO SUMMARY STATISTICS AT ROUTE 83 ON THE CALUMET-
SAG CHANNEL FROM JULY 2001 THROUGH DECEMBER 2002

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