

RESEARCH AND DEVELOPMENT DEPARTMENT

REPORT NO. 07-28

IN CHICAGO AREA WADEABLE STREAMS

DURING 2006

Metropolitan Water Reclamation District of Greater Chicago -

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CONTINUOUS DISSOLVED OXYGEN MONITORING IN CHICAGO AREA WADEABLE STREAMS DURING 2006

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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.

INTRODUCTION

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 dissolved oxygen (DO) concentrations to fall below DO standards established by the Illinois Pollution Control Board (IPCB). More than 30 years ago, the Metropolitan Water Reclamation District of Greater Chicago (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 water reclamation plants (WRPs), Calumet, North Side, and Stickney, and by the capture and treatment of combined sewer overflows (CSOs). In order to increase the DO concentration in the Chicago and Calumet River Systems, the District designed and constructed artificial aeration systems (instream diffuser and sidestream elevated pool aeration [SEPA] stations) during the late 1970s and early 1990s, respectively.

From October 1994 through May 1996, the Research and Development Department (R&D) 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 concentrations in selected waterway reaches were less than IPCB DO standards applicable to these reaches.

In August 1996, R&D 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 and has since been extended. Subsequently, the scope of the monitoring program was first expanded to include the Calumet River System, and then later the Chicago area wadeable streams.

Data in this report are from the 12 wadeable stream continuous DO monitoring stations of the District's Continuous Dissolved Oxygen Monitoring (CDOM) Program. This report covers the monitoring results for the period January 2006 through December 2006 for wadeable streams in the Chicago River System, Des Plaines River System, and Calumet River System.

MONITORING STATIONS

Locations and Descriptions

The CDOM Program and the Ambient Water Quality Monitoring (AWQM) Program supply the District with water quality data throughout the year for both the wadeable streams and deep-draft waterways within its jurisdiction. All stations for both programs are shown in Figure 1. Descriptions of the wadeable CDOM stations are listed in Table 1.

Designated Uses

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, the deep-draft Chicago and Calumet Rivers, and the wadeable streams of the Chicago, Des Plaines, and Calumet River Systems.

Secondary Contact Waters include the North Shore Channel from the North Side WRP to the North Branch Chicago River, the North Branch Chicago River from the North Shore Channel to the Chicago River, the South Branch 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 Highway 55 bridge southwest of Joliet.

Water Quality Standards

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.

MATERIALS AND METHODS

Water Quality Monitor

The continuous water quality monitors (monitor) used to collect these data were manufactured by YSI Incorporated (YSI) of Yellow Springs, Ohio. DO was measured hourly using the YSI Model 6920 or Model 6600 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. Installation designs resulted in a fixed length of pipe at each location with multiple 2-inch circular openings on the submerged end to allow sufficient flow of water through the pipe. Each monitor housing was vertically mounted on the side of a bridge abutment with an access hatch on the top end to allow for the exchange of monitors.

Servicing the monitors followed a weekly schedule. Industrial Waste Division 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 were 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 concentration measured in the field with a DO concentration recorded by a retrieved monitor (DO rejection criteria = difference greater than 2.0 mg/L).
- 2. Comparing the last hourly DO concentration measured by a retrieved monitor with the first hourly DO concentration recorded by a deployed monitor (DO rejection criteria = difference greater than 2.0 mg/L).
- 3. Comparing a DO concentration measured in a laboratory holding tank and a DO concentration recorded by a retrieved monitor (DO rejection criteria = difference greater than 1.0 mg/L).

Criterion 3 would entail rejection of all hourly readings; criteria 1 and 2 may or may not reject all readings.

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 concentrations were prepared.

Verification of Representative Data

During the spring, summer, and fall of 2006, cross-sectional DO surveys were conducted in the CWS and Des Plaines River System to determine if a fixed continuous monitoring location represented the DO concentration across the waterway. Verification was achieved by 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 clearly showed that the differences across the waterway were minimal and equivalent to the DO concentration measured by the monitor at the fixed locations.

RESULTS

The annual minimum, maximum, and mean DO concentrations measured at all 12 stations during 2006 are shown in $\underline{\text{Table 2}}$.

The number and percent of measured DO concentrations rejected and removed from the Access[®] database following review during 2006 are summarized in <u>Table 3</u>.

The number and percent of DO concentrations above the applicable IPCB DO standard for each waterway during 2006 are presented in <u>Table 4</u>. The DO data shown in <u>Table 4</u> do not include the DO concentrations rejected during the data review.

<u>Table 5</u> shows the percent distribution of DO concentrations from <1.0 mg/L to >5.0 mg/L at the 12 monitoring stations during 2006. The current national one-day minimum dissolved oxygen criterion for adult life stages of fish is 3.0 mg/L (Chapman, 1986).

Individual line drawings showing hourly DO concentrations at each monitoring station are indicated in Figure 2 through Figure 13.

Weekly DO summary statistics during 2006 are presented for each monitoring station in Appendix A, Tables A-1 through A-12.

TABLE 1: WADEABLE STREAM CONTINUOUS DISSOLVED OXYGEN MONITORING STATIONS

| Monitoring Station | Waterway | Description of Monitoring Station |
|-----------------------|----------------------------|---|
| | Chicago River System | |
| Central Park Avenue | North Branch Chicago River | 0.8 mile above junction with North Shore Channel, water quality monitor on northeast side of Central Park Avenue bridge, 2 feet below water surface. |
| | Des Plaines River System | |
| Devon Avenue | Des Plaines River | 0.7 mile above junction with Willow Creek, water quality monitor on northwest side of Devon Avenue bridge, 2 feet below water surface. |
| Irving Park Road | Des Plaines River | 3.1 miles below junction with Willow Creek, water quality monitor on northeast side of Irving Park Road bridge, 2 feet below water surface. |
| Ogden Avenue | Des Plaines River | 1.7 miles below junction with Salt Creek, 25.8 miles above junction with Chicago Sanitary and Ship Canal, water quality monitor on center of south side of Ogden Avenue bridge, 2 feet below water surface. |
| Material Service Road | Des Plaines River | 3.2 miles above junction with Chicago Sanitary & Ship Canal, water quality monitor on center of northwest side of Material Service Road bridge, 2 feet below water surface. |

TABLE 1 (Continued): WADEABLE STREAM CONTINUOUS DISSOLVED OXYGEN MONITORING STATIONS

| Monitoring Station | Waterway | Description of Monitoring Station |
|-------------------------|-----------------------------------|--|
| | Des Plaines River System (Continu | ued) |
| Busse Lake Dam | Salt Creek | 0.1 mile above Egan WRP outfall, water quality monitor on bike path bridge support, downstream of Busse Woods South Dam, in center of creek, 2 feet below water surface. |
| J. F. Kennedy Boulevard | Salt Creek | 0.8 mile below Egan WRP outfall, water quality monitor on southeast side of J. F. Kennedy Boulevard bridge, 2 feet below water surface. |
| Thorndale Avenue | Salt Creek | 2.6 miles below Egan WRP outfall, water quality monitor on southeast side of Thorndale Avenue bridge, 2 feet below water surface. |
| Wolf Road | Salt Creek | 8.0 miles above junction with Des Plaines River, water quality monitor on northwest side of Wolf Road bridge, 1 foot below water surface. |
| | Calumet River System | |
| Hohman Avenue | Grand Calumet River | 3.1 miles above junction with Calumet River, water quality monitor on southeast side of Hohman Avenue bridge, 1 foot below water surface. |

TABLE 1 (Continued): WADEABLE STREAM CONTINUOUS DISSOLVED OXYGEN MONITORING STATIONS

| Monitoring Station | Waterway | Description of Monitoring Station |
|-----------------------|------------------------------|--|
| | Calumet River System (Contin | nued) |
| Wentworth Avenue | Little Calumet River | 12.4 miles above junction with Calumet-Sag Channel, water quality monitor on center of east side of Wentworth Avenue bridge, 2 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, 2 feet below water surface. |

TABLE 2: MINIMUM, MAXIMUM, AND MEAN HOURLY DISSOLVED OXYGEN CONCENTRATIONS 1

| Monitoring | | DO Concentration (mg/L) | | | | |
|-------------------------|----------------------------|-------------------------|---------|------|--|--|
| Station | Waterway | Minimum | Maximum | Mean | | |
| | | | | | | |
| | Chicago River System | | | | | |
| Central Park Avenue | North Branch Chicago River | 0.1 | 18.0 | 8.8 | | |
| | Des Plaines River System | | | | | |
| Devon Avenue | Des Plaines River | 0.0 | 15.5 | 9.1 | | |
| Irving Park Road | Des Plaines River | 1.9 | 15.7 | 8.9 | | |
| Ogden Avenue | Des Plaines River | 4.2 | 15.4 | 9.9 | | |
| Material Service Road | Des Plaines River | 4.1 | 19.5 | 10.1 | | |
| Busse Lake Dam | Salt Creek | 0.3 | 17.6 | 10.6 | | |
| J. F. Kennedy Boulevard | Salt Creek | 5.1 | 13.5 | 9.1 | | |
| Thorndale Avenue | Salt Creek | 2.8 | 16.0 | 9.2 | | |
| Wolf Road | Salt Creek | 3.1 | 16.1 | 9.2 | | |
| | Calumet River System | | | | | |
| Hohman Avenue | Grand Calumet River | 0.0 | 10.9 | 2.7 | | |
| Wentworth Avenue | Little Calumet River | 0.0 | 14.3 | 7.8 | | |
| Ashland Avenue | Little Calumet River | 2.6 | 14.9 | 7.9 | | |

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

TABLE 3: NUMBER AND PERCENT OF DISSOLVED OXYGEN VALUES NOT MEETING ACCEPTANCE CRITERIA $^{\rm 1}$

| Monitoring Station | Waterway | Number of DO Values Rejected | Percent of DO Values Rejected |
|-------------------------|----------------------------|------------------------------------|-------------------------------------|
| | Chicago River System | | |
| Central Park Avenue | North Branch Chicago River | 169 | 2 |
| | Des Plaines River System | | |
| Devon Avenue | Des Plaines River | 339 | 4 |
| Irving Park Road | Des Plaines River | 186 | 2 |
| Ogden Avenue | Des Plaines River | 1 | 0 |
| Material Service Road | Des Plaines River | 923 | 11 |
| Busse Lake Dam | Salt Creek | 237 | 3 |
| J. F. Kennedy Boulevard | Salt Creek | 0 | 0 |
| Thorndale Avenue | Salt Creek | 1,180 | 14 |
| Wolf Road | Salt Creek | 193 | 2 |
| | Calumet River System | | |
| Hohman Avenue | Grand Calumet River | 5,462 | 62 |
| Wentworth Avenue | Little Calumet River | 252 | 3 |
| Ashland Avenue | Little Calumet River | 361 | 4 |

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.

TABLE 4: NUMBER AND PERCENT OF DISSOLVED OXYGEN VALUES MEASURED ABOVE THE ILLINOIS POLLUTION CONTROL BOARD'S WATER QUALITY STANDARD 1

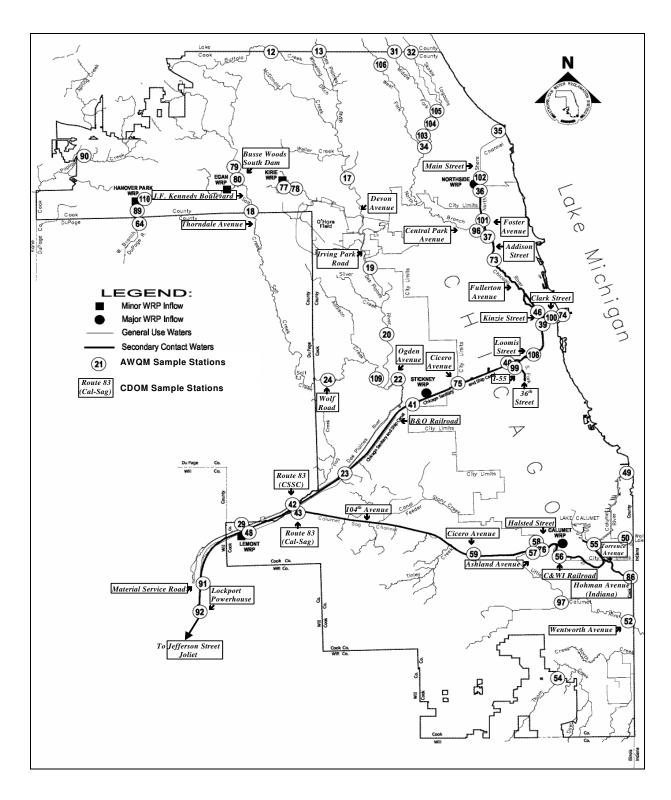
| Monitoring Station Waterway | | IPCB DO Standard | Number of DO Values | Number Above Standard | Percent Above Standard |
|--------------------------------|----------------------------|------------------------|---------------------------|-----------------------------|------------------------------|
| | Chicago River System | | | | |
| Central Park Avenue | North Branch Chicago River | 5 | 8,591 | 7,858 | 92 |
| | Des Plaines River System | | | | |
| Devon Avenue | Des Plaines River | 5 | 8,421 | 7,283 | 87 |
| Irving Park Road | Des Plaines River | 5 | 8,574 | 7,597 | 89 |
| Ogden Avenue | Des Plaines River | 5 | 8,759 | 8,719 | >99 |
| Material Service Road | Des Plaines River | 5 | 7,837 | 7,757 | 99 |
| Busse Lake Dam | Salt Creek | 5 | 8,523 | 8,315 | 98 |
| J. F. Kennedy Boulevard | Salt Creek | 5 | 8,760 | 8,760 | 100 |
| Thorndale Avenue | Salt Creek | 5 | 7,580 | 7,477 | 99 |
| Wolf Road | Salt Creek | 5 | 8,567 | 8,185 | 96 |
| <u>Calumet River System</u> | | | | | |
| Hohman Avenue | Grand Calumet River | 5 | 3,298 | 433 | 13 |
| Wentworth Avenue | Little Calumet River | 5 | 8,508 | 6,513 | 77 |
| Ashland Avenue | Little Calumet River | 5 | 8,399 | 6,652 | 79 |

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

TABLE 5: PERCENT OF DISSOLVED OXYGEN VALUES IN SELECTED RANGES

| Monitoring Station | _ | | | Percent of DO Values in Range (mg/L 0-<1 1-<2 2-<3 3-<4 4-<5 ≥5 | | | | | |
|-------------------------------------|----------------------------|-------|----|--|----|----|-----|--|--|
| | Chicago River System | | | | | | | | |
| Central Park Avenue | North Branch Chicago River | <1 <1 | | <1 <1 | 1 | 7 | 92 | | |
| | Des Plaines River System | | | | | | | | |
| Devon Avenue | Des Plaines River | <1 | <1 | 2 | 4 | 7 | 87 | | |
| Irving Park Road | Des Plaines River | 0 | 0 | 1 | 4 | 6 | 89 | | |
| Ogden Avenue | Des Plaines River | 0 | 0 | 0 | 0 | <1 | >99 | | |
| Material Service Road | Des Plaines River | 0 | 0 | 0 | 0 | 1 | 99 | | |
| Busse Lake Dam | Salt Creek | <1 | <1 | <1 | <1 | <1 | 98 | | |
| J. F. Kennedy Boulevard | Salt Creek | 0 | 0 | 0 | 0 | 0 | 100 | | |
| Thorndale Avenue | Salt Creek | 0 | 0 | 0 | <1 | 1 | 99 | | |
| Wolf Road | Salt Creek | 0 | 0 | 0 | <1 | 4 | 96 | | |
| | Calumet River System | | | | | | | | |
| Hohman Avenue | Grand Calumet River | 24 | 18 | 15 | 16 | 13 | 13 | | |
| Wentworth Avenue | Little Calumet River | <1 | <1 | 3 | 8 | 12 | 77 | | |
| Ashland Avenue Little Calumet River | | 0 | 0 | <1 | 7 | 14 | 79 | | |

FIGURE 1: CONTINUOUS DISSOLVED OXYGEN MONITORING AND AMBIENT WATER QUALITY MONITORING SAMPLE STATIONS



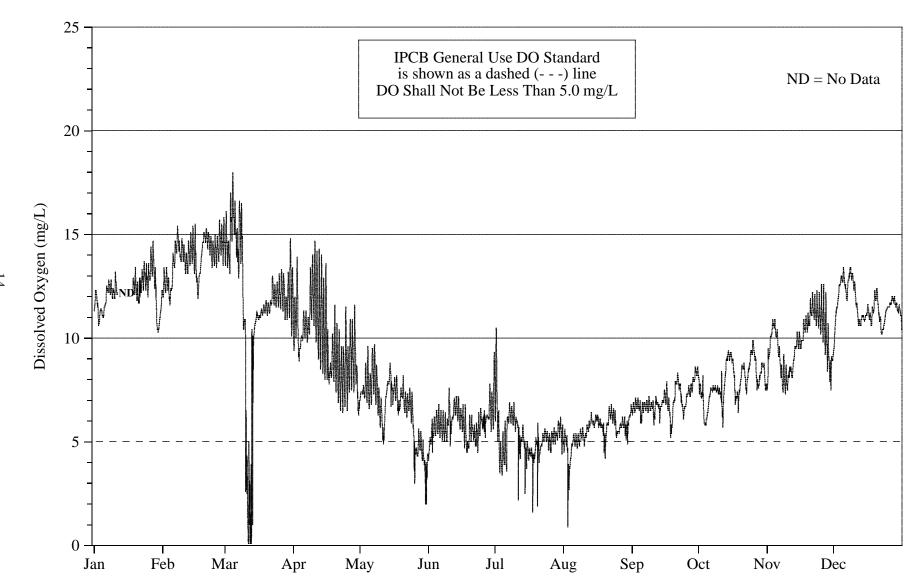
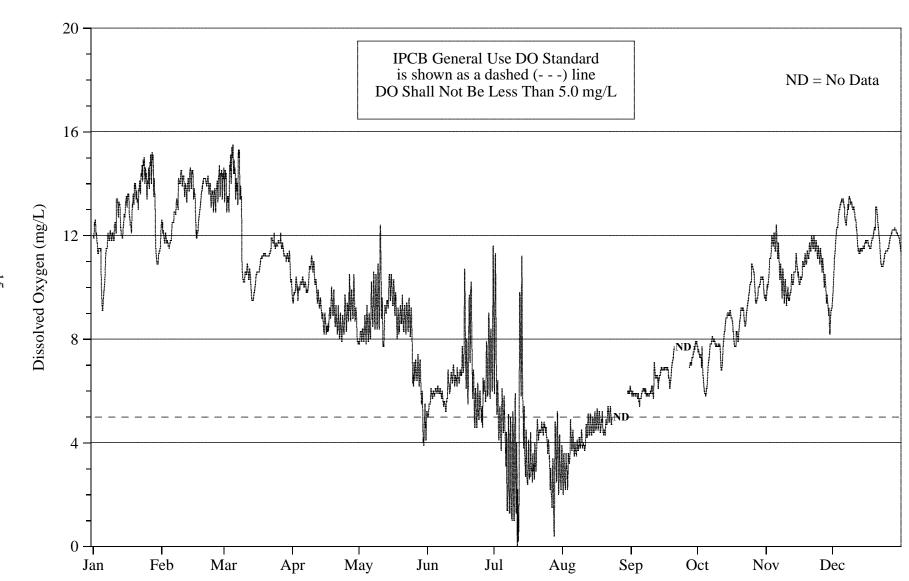
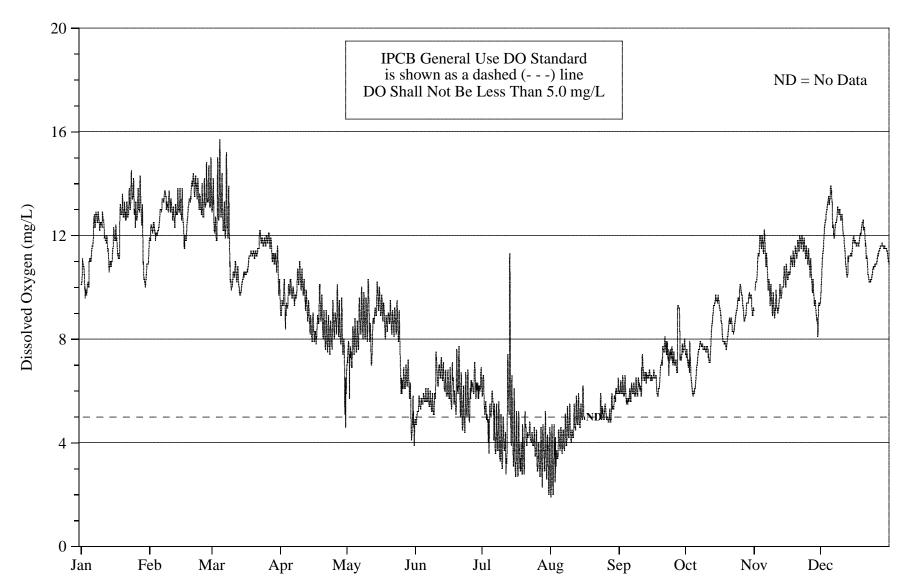


FIGURE 3: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT DEVON AVENUE ON THE DES PLAINES RIVER FROM JANUARY 2006 THROUGH DECEMBER 2006





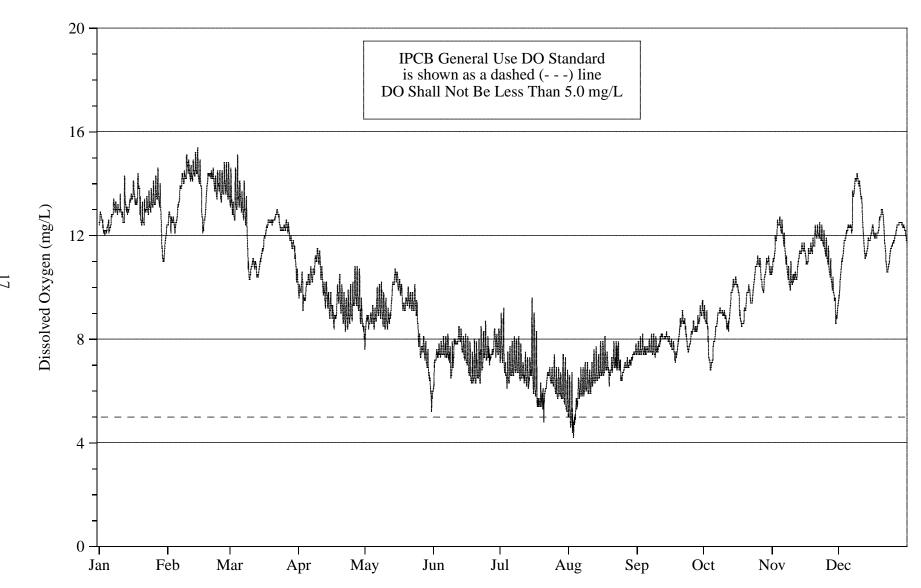


FIGURE 6: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT MATERIAL SERVICE ROAD ON THE DES PLAINES RIVER FROM JANUARY 2006 THROUGH DECEMBER 2006

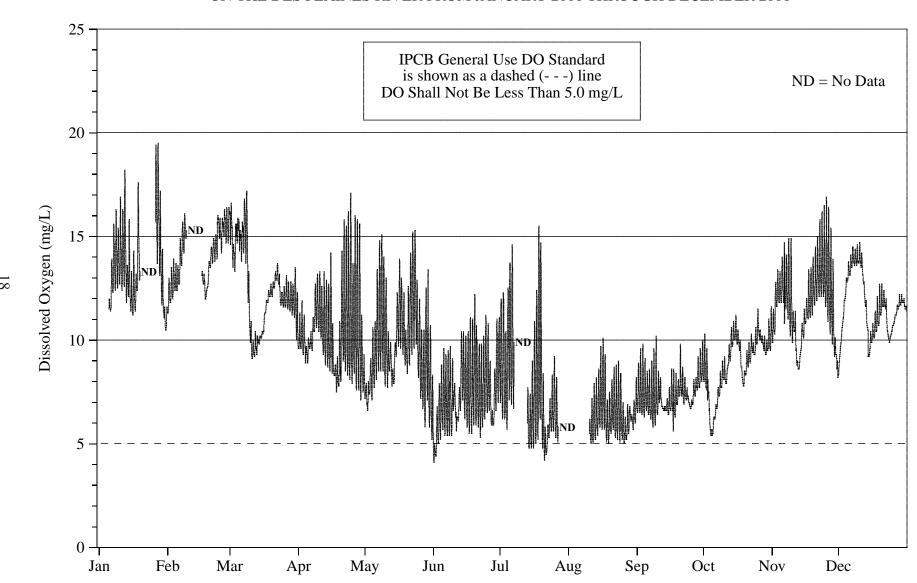
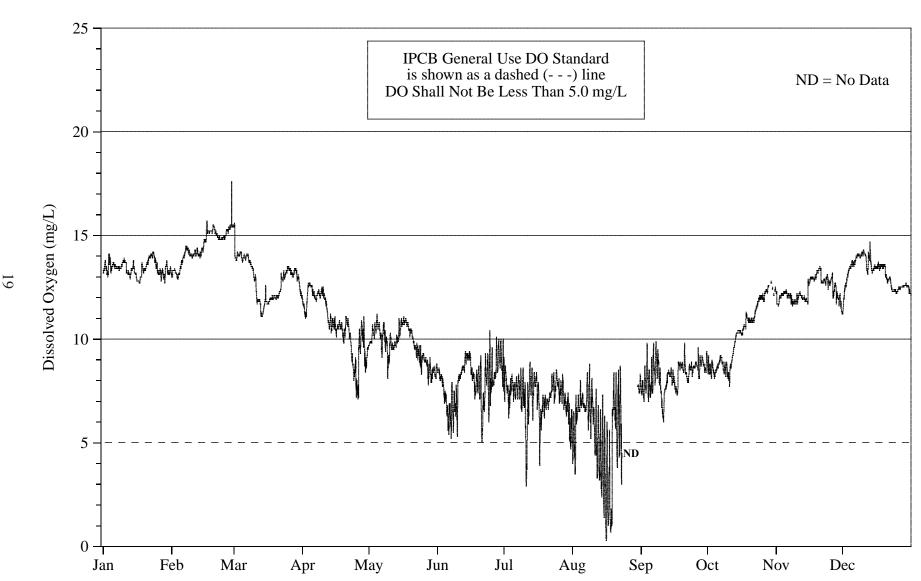


FIGURE 7: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT BUSSE LAKE DAM ON SALT CREEK FROM JANUARY 2006 THROUGH DECEMBER 2006



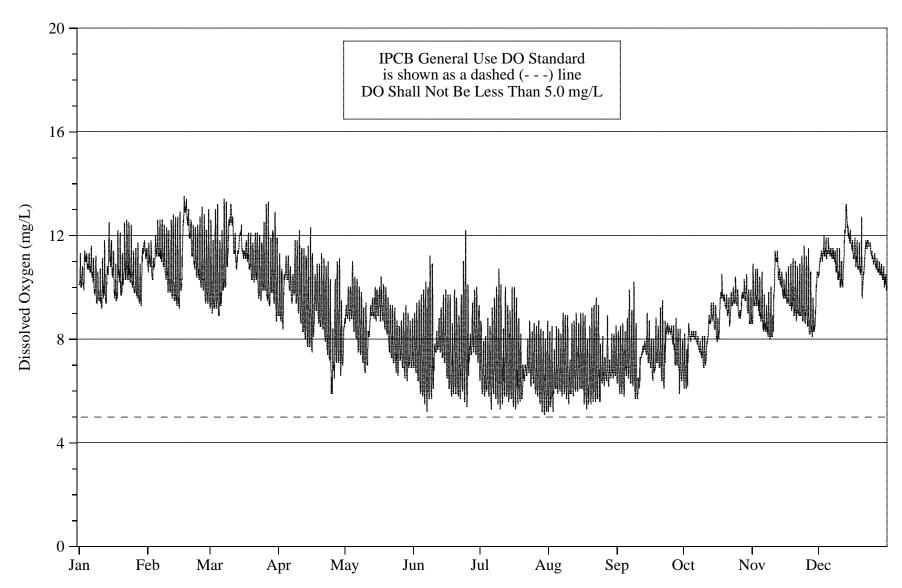
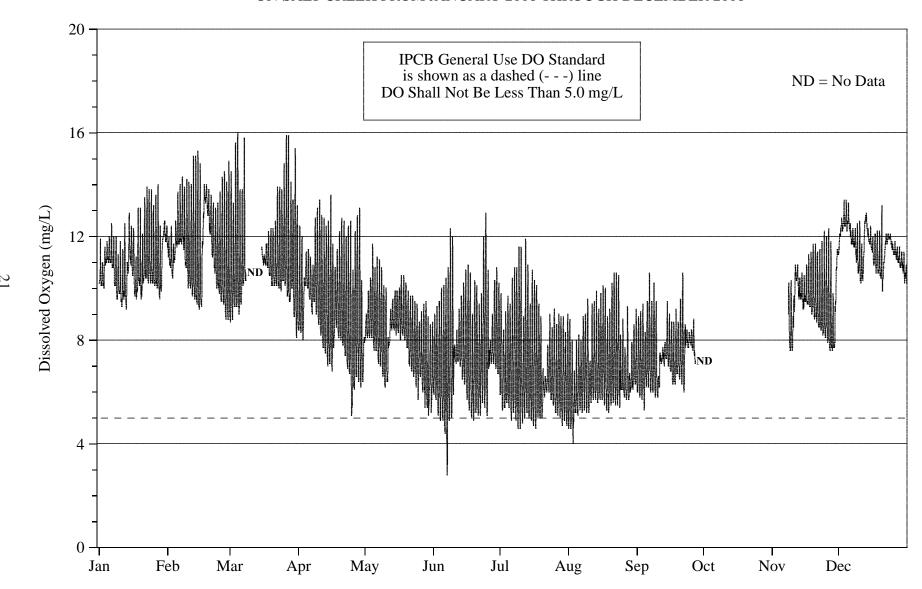


FIGURE 9: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT THORNDALE AVENUE ON SALT CREEK FROM JANUARY 2006 THROUGH DECEMBER 2006



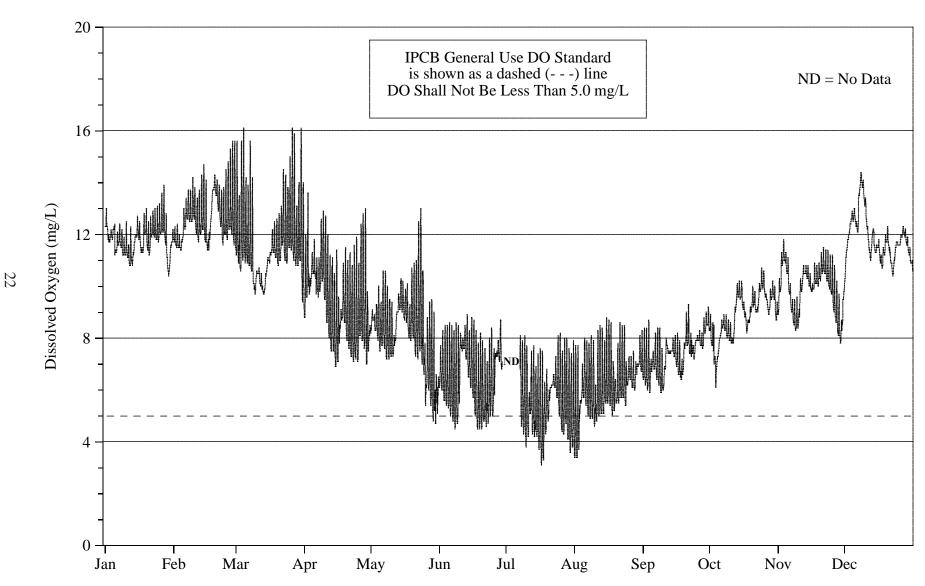


FIGURE 11: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT HOHMAN AVENUE ON THE GRAND CALUMET RIVER FROM JANUARY 2006 THROUGH DECEMBER 2006

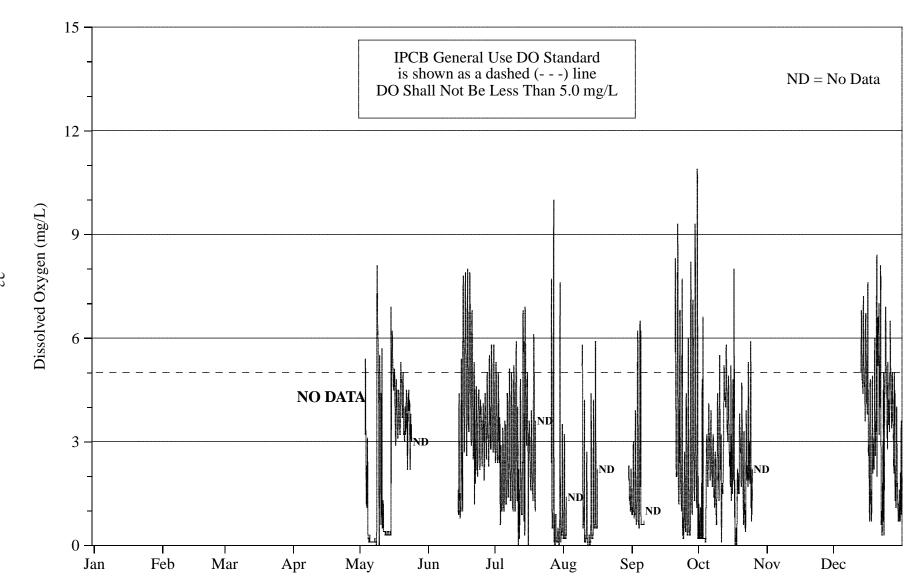


FIGURE 12: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT WENTWORTH AVENUE ON THE LITTLE CALUMET RIVER FROM JANUARY 2006 THROUGH DECEMBER 2006

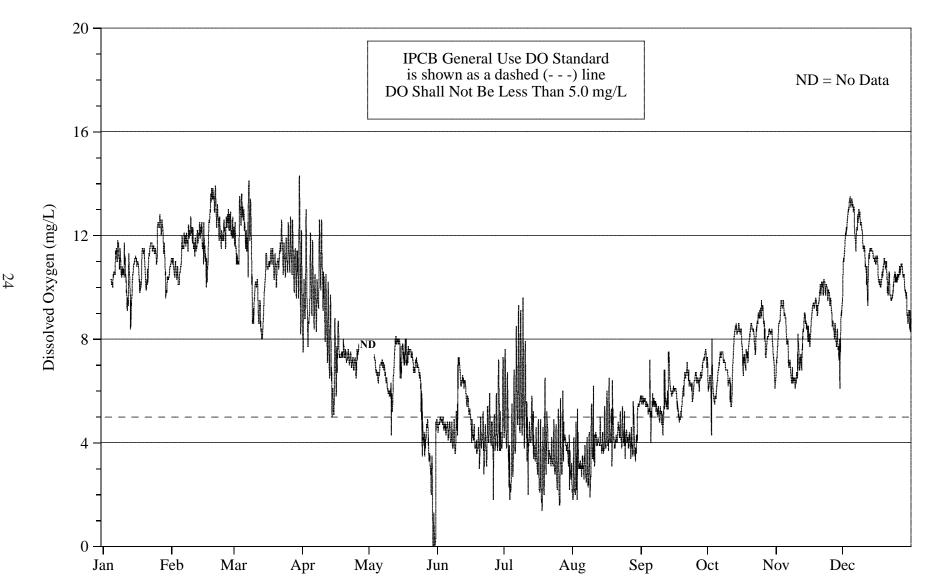
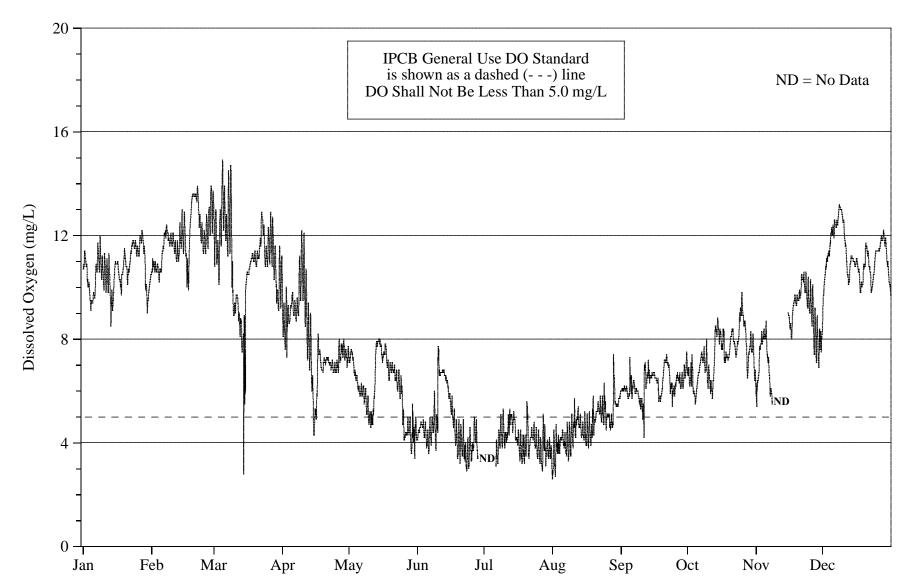


FIGURE 13: DISSOLVED OXYGEN CONCENTRATION MEASURED HOURLY AT ASHLAND AVENUE ON THE LITTLE CALUMET RIVER FROM JANUARY 2006 THROUGH DECEMBER 2006



REFERENCES

Chapman, G., "Water Quality Criteria for Dissolved Oxygen," EPA 440/5-86-003, United States Environmental Protection Agency, Office of Water Regulations and Standards, Washington, D.C., 1986.

Lanyon, R., "Description of the Chicago Waterway System," Use Attainability Analysis Study Conducted by Illinois Environmental Protection Agency in Cooperation with Metropolitan Water Reclamation District of Greater Chicago, Illinois, May 2002.

APPENDIX A

WEEKLY DO SUMMARY STATISTICS AT ALL WADEABLE STREAM MONITORING STATIONS DURING 2006

TABLE A-1: WEEKLY DO SUMMARY STATISTICS AT CENTRAL PARK AVENUE ON THE NORTH BRANCH CHICAGO RIVER DURING 2006

| Number of DO Concentration (mg/L) | | | | Percent DO Values Above | |
|-----------------------------------|-----------|-----------|---------|----------------------------|----------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| Monitoring Dates | DO values | Willimmum | Maximum | Mean | ii CD Standard |
| 01/01/06 - 01/01/06 | 24 | 11.3 | 12.3 | 11.9 | 100 |
| 01/02/06 - 01/08/06 | 168 | 10.6 | 12.8 | 11.7 | 100 |
| 01/09/06 - 01/15/06 | 60 | 11.9 | 13.2 | 12.3 | 100 |
| 01/16/06 - 01/22/06 | 108 | 11.7 | 13.4 | 12.5 | 100 |
| 01/23/06 - 01/29/06 | 168 | 10.3 | 14.7 | 12.8 | 100 |
| 01/30/06 - 02/05/06 | 168 | 10.3 | 14.1 | 12.2 | 100 |
| 02/06/06 - 02/12/06 | 168 | 13.1 | 15.4 | 14.1 | 100 |
| 02/13/06 - 02/19/06 | 168 | 11.9 | 15.5 | 13.9 | 100 |
| 02/20/06 - 02/26/06 | 168 | 13.4 | 15.7 | 14.5 | 100 |
| 02/27/06 - 03/05/06 | 168 | 13.1 | 18.0 | 15.0 | 100 |
| 03/06/06 - 03/12/06 | 168 | 0.1 | 16.6 | 9.5 | 67 |
| 03/13/06 - 03/19/06 | 168 | 0.1 | 11.8 | 10.5 | 96 |
| 03/20/06 - 03/26/06 | 168 | 11.1 | 13.3 | 12.0 | 100 |
| 03/27/06 - 04/02/06 | 168 | 9.4 | 14.8 | 11.9 | 100 |
| 04/03/06 - 04/09/06 | 167 | 8.9 | 14.0 | 10.7 | 100 |
| 04/10/06 - 04/16/06 | 168 | 8.0 | 14.7 | 11.0 | 100 |
| 04/17/06 - 04/23/06 | 168 | 6.4 | 11.6 | 8.6 | 100 |
| 04/24/06 - 04/30/06 | 168 | 6.3 | 11.6 | 8.5 | 100 |
| 05/01/06 - 05/07/06 | 168 | 6.6 | 9.7 | 7.8 | 100 |
| 05/08/06 - 05/14/06 | 168 | 4.9 | 8.8 | 7.0 | 99 |
| 05/15/06 - 05/21/06 | 168 | 6.3 | 8.3 | 7.3 | 100 |
| 05/22/06 - 05/28/06 | 168 | 3.0 | 7.6 | 5.6 | 61 |
| 05/29/06 - 06/04/06 | 168 | 2.0 | 6.5 | 4.8 | 46 |
| 06/05/06 - 06/11/06 | 168 | 4.8 | 7.6 | 5.8 | 96 |
| 06/12/06 - 06/18/06 | 168 | 4.5 | 7.2 | 6.1 | 86 |
| 06/19/06 - 06/25/06 | 168 | 4.5 | 6.6 | 5.6 | 83 |
| 06/26/06 - 07/02/06 | 168 | 5.0 | 10.5 | 6.7 | 99 |
| 07/03/06 - 07/09/06 | 167 | 3.4 | 6.9 | 5.3 | 59 |
| 07/10/06 - 07/16/06 | 168 | 2.2 | 6.2 | 5.0 | 51 |
| 07/17/06 - 07/23/06 | 168 | 1.6 | 5.9 | 4.7 | 29 |
| 07/24/06 - 07/30/06 | 168 | 4.5 | 6.2 | 5.3 | 79 |
| 07/31/06 - 08/06/06 | 168 | 0.9 | 5.8 | 4.7 | 36 |
| 08/07/06 - 08/13/06 | 168 | 4.7 | 6.4 | 5.4 | 85 |

TABLE A-1 (Continued): WEEKLY DO SUMMARY STATISTICS AT CENTRAL PARK AVENUE ON THE NORTH BRANCH CHICAGO RIVER DURING 2006

| | Number of | DO Concentration (mg/L) | | | Percent DO Values Above |
|---------------------|-----------|-------------------------|---------|------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 08/14/06 - 08/20/06 | 168 | 4.2 | 6.3 | 5.7 | 90 |
| 08/21/06 - 08/27/06 | 168 | 5.2 | 6.8 | 6.0 | 100 |
| 08/28/06 - 09/03/06 | 168 | 4.9 | 7.1 | 6.3 | 99 |
| 09/04/06 - 09/10/06 | 168 | 5.8 | 7.2 | 6.6 | 100 |
| 09/11/06 - 09/17/06 | 168 | 5.9 | 7.9 | 6.9 | 100 |
| 09/18/06 - 09/24/06 | 168 | 5.2 | 8.3 | 7.0 | 100 |
| 09/25/06 - 10/01/06 | 168 | 6.7 | 8.6 | 7.7 | 100 |
| 10/02/06 - 10/08/06 | 168 | 5.8 | 8.2 | 7.0 | 100 |
| 10/09/06 - 10/15/06 | 168 | 5.7 | 9.4 | 8.0 | 100 |
| 10/16/06 - 10/22/06 | 168 | 6.4 | 9.1 | 7.9 | 100 |
| 10/23/06 - 10/29/06 | 168 | 7.5 | 9.9 | 8.6 | 100 |
| 10/30/06 - 11/05/06 | 169 | 7.5 | 10.9 | 9.4 | 100 |
| 11/06/06 - 11/12/06 | 168 | 7.3 | 9.6 | 8.3 | 100 |
| 11/13/06 - 11/19/06 | 168 | 8.9 | 11.2 | 10.1 | 100 |
| 11/20/06 - 11/26/06 | 168 | 9.8 | 12.6 | 11.2 | 100 |
| 11/27/06 - 12/03/06 | 168 | 7.5 | 12.6 | 10.1 | 100 |
| 12/04/06 - 12/10/06 | 168 | 11.8 | 13.4 | 12.7 | 100 |
| 12/11/06 - 12/17/06 | 168 | 10.6 | 12.2 | 11.1 | 100 |
| 12/18/06 - 12/24/06 | 168 | 10.2 | 12.4 | 11.2 | 100 |
| 12/25/06 - 12/31/06 | 168 | 10.4 | 12.0 | 11.5 | 100 |
| | | | | | |

TABLE A-2: WEEKLY DO SUMMARY STATISTICS AT DEVON AVENUE ON THE DES PLAINES RIVER DURING 2006

| | Number of | DO Cor | ncentration (mg | σ/L.) | Percent DO Values Above |
|---------------------|-----------|---------|-----------------|-------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 01/01/06 - 01/01/06 | 24 | 11.9 | 12.6 | 12.2 | 100 |
| 01/02/06 - 01/08/06 | 168 | 9.1 | 12.6 | 11.2 | 100 |
| 01/09/06 - 01/15/06 | 168 | 11.8 | 13.5 | 12.5 | 100 |
| 01/16/06 - 01/22/06 | 168 | 12.1 | 14.5 | 13.4 | 100 |
| 01/23/06 - 01/29/06 | 168 | 10.9 | 15.2 | 14.0 | 100 |
| 01/30/06 - 02/05/06 | 168 | 10.9 | 12.6 | 11.8 | 100 |
| 02/06/06 - 02/12/06 | 168 | 12.5 | 14.5 | 13.6 | 100 |
| 02/13/06 - 02/19/06 | 168 | 11.9 | 14.6 | 13.5 | 100 |
| 02/20/06 - 02/26/06 | 168 | 12.9 | 14.5 | 13.8 | 100 |
| 02/27/06 - 03/05/06 | 168 | 12.9 | 15.5 | 14.2 | 100 |
| 03/06/06 - 03/12/06 | 168 | 10.2 | 15.3 | 12.1 | 100 |
| 03/13/06 - 03/19/06 | 167 | 9.5 | 11.3 | 10.5 | 100 |
| 03/20/06 - 03/26/06 | 168 | 11.2 | 12.1 | 11.6 | 100 |
| 03/27/06 - 04/02/06 | 168 | 9.4 | 11.7 | 10.7 | 100 |
| 04/03/06 - 04/09/06 | 167 | 9.5 | 11.2 | 10.2 | 100 |
| 04/10/06 - 04/16/06 | 168 | 8.2 | 11.0 | 9.4 | 100 |
| 04/17/06 - 04/23/06 | 168 | 7.9 | 10.0 | 8.8 | 100 |
| 04/24/06 - 04/30/06 | 168 | 7.8 | 10.5 | 9.1 | 100 |
| 05/01/06 - 05/07/06 | 168 | 7.8 | 10.6 | 8.6 | 100 |
| 05/08/06 - 05/14/06 | 168 | 7.7 | 12.4 | 9.5 | 100 |
| 05/15/06 - 05/21/06 | 168 | 8.0 | 10.5 | 9.2 | 100 |
| 05/22/06 - 05/28/06 | 167 | 6.2 | 9.6 | 7.7 | 100 |
| 05/29/06 - 06/04/06 | 167 | 3.9 | 6.4 | 5.4 | 81 |
| 06/05/06 - 06/11/06 | 168 | 5.2 | 6.8 | 5.9 | 100 |
| 06/12/06 - 06/18/06 | 168 | 6.1 | 10.7 | 7.0 | 100 |
| 06/19/06 - 06/25/06 | 167 | 4.6 | 10.2 | 6.3 | 83 |
| 06/26/06 - 07/02/06 | 167 | 4.7 | 11.6 | 7.2 | 99 |
| 07/03/06 - 07/09/06 | 168 | 1.0 | 6.1 | 3.9 | 21 |
| 07/10/06 - 07/16/06 | 168 | 0.0 | 11.2 | 4.2 | 32 |
| 07/17/06 - 07/23/06 | 168 | 2.5 | 4.9 | 3.9 | 0 |
| 07/24/06 - 07/30/06 | 168 | 0.4 | 5.2 | 3.3 | 2 |
| 07/31/06 - 08/06/06 | 168 | 2.0 | 4.9 | 3.4 | 0 |
| 08/07/06 - 08/13/06 | 168 | 3.5 | 5.1 | 4.2 | 7 |

TABLE A-2 (Continued): WEEKLY DO SUMMARY STATISTICS AT DEVON AVENUE ON THE DES PLAINES RIVER DURING 2006

| | Number of | Number of DO Concentration (mg/L) | | | | | |
|---------------------|-----------|-----------------------------------|---------|------|---------------|--|--|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard | | |
| 08/14/06 - 08/20/06 | 168 | 4.3 | 5.3 | 4.7 | 17 | | |
| 08/21/06 - 08/27/06 | 59 | 4.7 | 5.4 | 5.0 | 47 | | |
| 08/28/06 - 09/03/06 | 107 | 5.7 | 6.2 | 5.9 | 100 | | |
| 09/04/06 - 09/10/06 | 168 | 5.4 | 6.2 | 5.9 | 100 | | |
| 09/11/06 - 09/17/06 | 168 | 5.7 | 7.1 | 6.7 | 100 | | |
| 09/18/06 - 09/24/06 | 61 | 6.1 | 7.7 | 6.8 | 100 | | |
| 09/25/06 - 10/01/06 | 110 | 6.9 | 7.9 | 7.5 | 100 | | |
| 10/02/06 - 10/08/06 | 168 | 5.8 | 8.1 | 7.1 | 100 | | |
| 10/09/06 - 10/15/06 | 168 | 6.8 | 9.1 | 8.1 | 100 | | |
| 10/16/06 - 10/22/06 | 168 | 7.7 | 9.2 | 8.5 | 100 | | |
| 10/23/06 - 10/29/06 | 169 | 8.8 | 10.9 | 10.0 | 100 | | |
| 10/30/06 - 11/05/06 | 169 | 9.5 | 12.4 | 10.8 | 100 | | |
| 11/06/06 - 11/12/06 | 168 | 9.3 | 11.7 | 10.2 | 100 | | |
| 11/13/06 - 11/19/06 | 168 | 10.1 | 11.4 | 10.7 | 100 | | |
| 11/20/06 - 11/26/06 | 168 | 10.6 | 12.0 | 11.4 | 100 | | |
| 11/27/06 - 12/03/06 | 168 | 8.2 | 12.9 | 10.3 | 100 | | |
| 12/04/06 - 12/10/06 | 168 | 12.4 | 13.5 | 13.1 | 100 | | |
| 12/11/06 - 12/17/06 | 168 | 11.3 | 12.9 | 11.7 | 100 | | |
| 12/18/06 - 12/24/06 | 168 | 10.8 | 13.1 | 11.8 | 100 | | |
| 12/25/06 - 12/31/06 | 168 | 11.4 | 12.3 | 11.9 | 100 | | |

TABLE A-3: WEEKLY DO SUMMARY STATISTICS AT IRVING PARK ROAD ON THE DES PLAINES RIVER DURING 2006

| | Number of | DO Cor | ncentration (mg | σ/L.) | Percent DO Values Above |
|---------------------|-----------|---------|-----------------|-------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 01/01/06 - 01/01/06 | 24 | 10.1 | 11.1 | 10.6 | 100 |
| 01/02/06 - 01/08/06 | 168 | 9.6 | 12.9 | 11.3 | 100 |
| 01/09/06 - 01/15/06 | 168 | 10.6 | 12.9 | 11.8 | 100 |
| 01/16/06 - 01/22/06 | 168 | 11.1 | 13.8 | 12.5 | 100 |
| 01/23/06 - 01/29/06 | 168 | 10.0 | 14.5 | 12.8 | 100 |
| 01/30/06 - 02/05/06 | 167 | 10.0 | 13.0 | 11.9 | 100 |
| 02/06/06 - 02/12/06 | 168 | 12.3 | 13.7 | 13.2 | 100 |
| 02/13/06 - 02/19/06 | 168 | 11.5 | 14.0 | 12.9 | 100 |
| 02/20/06 - 02/26/06 | 168 | 12.7 | 14.8 | 13.6 | 100 |
| 02/27/06 - 03/05/06 | 168 | 11.8 | 15.7 | 13.3 | 100 |
| 03/06/06 - 03/12/06 | 168 | 9.9 | 15.2 | 11.5 | 100 |
| 03/13/06 - 03/19/06 | 168 | 9.7 | 11.4 | 10.6 | 100 |
| 03/20/06 - 03/26/06 | 168 | 11.1 | 12.2 | 11.7 | 100 |
| 03/27/06 - 04/02/06 | 168 | 8.9 | 11.9 | 10.6 | 100 |
| 04/03/06 - 04/09/06 | 167 | 8.4 | 11.0 | 9.8 | 100 |
| 04/10/06 - 04/16/06 | 168 | 7.9 | 10.7 | 9.2 | 100 |
| 04/17/06 - 04/23/06 | 168 | 7.4 | 10.1 | 8.5 | 100 |
| 04/24/06 - 04/30/06 | 168 | 4.6 | 10.1 | 8.1 | 99 |
| 05/01/06 - 05/07/06 | 168 | 5.7 | 10.0 | 8.0 | 100 |
| 05/08/06 - 05/14/06 | 168 | 7.0 | 10.3 | 8.8 | 100 |
| 05/15/06 - 05/21/06 | 168 | 8.0 | 10.0 | 9.0 | 100 |
| 05/22/06 - 05/28/06 | 168 | 5.9 | 9.5 | 7.4 | 100 |
| 05/29/06 - 06/04/06 | 168 | 3.9 | 6.5 | 5.3 | 68 |
| 06/05/06 - 06/11/06 | 168 | 5.1 | 7.5 | 5.9 | 100 |
| 06/12/06 - 06/18/06 | 168 | 5.3 | 7.3 | 6.3 | 100 |
| 06/19/06 - 06/25/06 | 167 | 4.4 | 7.7 | 5.7 | 82 |
| 06/26/06 - 07/02/06 | 167 | 5.1 | 7.1 | 6.1 | 100 |
| 07/03/06 - 07/09/06 | 168 | 3.3 | 6.0 | 4.7 | 46 |
| 07/10/06 - 07/16/06 | 167 | 2.7 | 11.3 | 4.7 | 33 |
| 07/17/06 - 07/23/06 | 168 | 2.7 | 5.2 | 3.9 | 2 |
| 07/24/06 - 07/30/06 | 168 | 2.3 | 5.2 | 3.7 | 2 |
| 07/31/06 - 08/06/06 | 168 | 1.9 | 4.7 | 3.6 | 0 |
| 08/07/06 - 08/13/06 | 168 | 3.7 | 5.9 | 4.7 | 28 |

TABLE A-3 (Continued): WEEKLY DO SUMMARY STATISTICS AT IRVING PARK ROAD ON THE DES PLAINES RIVER DURING 2006

| | Number of | DO Cor | Percent DO Values Above | | |
|---------------------|-----------|---------|----------------------------|------|---------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| 08/14/06 - 08/20/06 | 60 | 4.6 | 6.2 | 5.2 | 60 |
| 08/21/06 - 08/27/06 | 109 | 4.8 | 5.9 | 5.1 | 68 |
| 08/28/06 - 09/03/06 | 168 | 4.8 | 6.6 | 5.8 | 93 |
| 09/04/06 - 09/10/06 | 168 | 5.5 | 6.5 | 6.0 | 100 |
| 09/11/06 - 09/17/06 | 168 | 5.8 | 7.4 | 6.6 | 100 |
| 09/18/06 - 09/24/06 | 168 | 5.8 | 8.1 | 7.1 | 100 |
| 09/25/06 - 10/01/06 | 168 | 6.7 | 9.3 | 7.6 | 100 |
| 10/02/06 - 10/08/06 | 167 | 5.8 | 7.9 | 7.0 | 100 |
| 10/09/06 - 10/15/06 | 168 | 7.1 | 9.7 | 8.3 | 100 |
| 10/16/06 - 10/22/06 | 168 | 7.6 | 9.5 | 8.4 | 100 |
| 10/23/06 - 10/29/06 | 168 | 8.4 | 10.1 | 9.3 | 100 |
| 10/30/06 - 11/05/06 | 157 | 8.9 | 12.2 | 10.7 | 100 |
| 11/06/06 - 11/12/06 | 167 | 8.8 | 11.6 | 9.8 | 100 |
| 11/13/06 - 11/19/06 | 168 | 9.6 | 11.6 | 10.6 | 100 |
| 11/20/06 - 11/26/06 | 168 | 10.4 | 12.0 | 11.4 | 100 |
| 11/27/06 - 12/03/06 | 168 | 8.1 | 13.0 | 10.3 | 100 |
| 12/04/06 - 12/10/06 | 168 | 11.9 | 13.9 | 12.9 | 100 |
| 12/11/06 - 12/17/06 | 168 | 10.4 | 12.6 | 11.4 | 100 |
| 12/18/06 - 12/24/06 | 167 | 10.2 | 12.6 | 11.3 | 100 |
| 12/25/06 - 12/31/06 | 168 | 10.7 | 11.7 | 11.3 | 100 |

TABLE A-4: WEEKLY DO SUMMARY STATISTICS AT OGDEN AVENUE ON THE DES PLAINES RIVER DURING 2006

| | Number of | Number of DO Concentration (mg/L) | | | | | |
|---------------------|-----------|-----------------------------------|---------|------|-------------------------------|--|--|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | Values Above IPCB Standard | | |
| | | | | | 100 | | |
| 01/01/06 - 01/01/06 | 24 | 12.4 | 12.9 | 12.7 | 100 | | |
| 01/02/06 - 01/08/06 | 168 | 12.0 | 13.4 | 12.6 | 100 | | |
| 01/09/06 - 01/15/06 | 168 | 12.5 | 14.3 | 13.1 | 100 | | |
| 01/16/06 - 01/22/06 | 168 | 12.4 | 14.4 | 13.2 | 100 | | |
| 01/23/06 - 01/29/06 | 168 | 11.0 | 14.6 | 13.2 | 100 | | |
| 01/30/06 - 02/05/06 | 168 | 11.0 | 13.3 | 12.4 | 100 | | |
| 02/06/06 - 02/12/06 | 168 | 13.3 | 15.1 | 14.3 | 100 | | |
| 02/13/06 - 02/19/06 | 168 | 12.1 | 15.4 | 13.9 | 100 | | |
| 02/20/06 - 02/26/06 | 168 | 13.3 | 14.8 | 14.0 | 100 | | |
| 02/27/06 - 03/05/06 | 168 | 12.6 | 15.1 | 13.6 | 100 | | |
| 03/06/06 - 03/12/06 | 168 | 10.3 | 14.1 | 11.8 | 100 | | |
| 03/13/06 - 03/19/06 | 168 | 10.4 | 12.6 | 11.7 | 100 | | |
| 03/20/06 - 03/26/06 | 168 | 12.2 | 13.0 | 12.5 | 100 | | |
| 03/27/06 - 04/02/06 | 168 | 9.6 | 12.5 | 11.0 | 100 | | |
| 04/03/06 - 04/09/06 | 167 | 9.1 | 11.5 | 10.4 | 100 | | |
| 04/10/06 - 04/16/06 | 168 | 8.6 | 11.4 | 9.9 | 100 | | |
| 04/17/06 - 04/23/06 | 168 | 8.3 | 10.5 | 9.2 | 100 | | |
| 04/24/06 - 04/30/06 | 168 | 8.0 | 10.8 | 9.3 | 100 | | |
| 05/01/06 - 05/07/06 | 168 | 7.6 | 10.1 | 8.9 | 100 | | |
| 05/08/06 - 05/14/06 | 168 | 8.4 | 10.7 | 9.3 | 100 | | |
| 05/15/06 - 05/21/06 | 168 | 9.1 | 10.6 | 9.7 | 100 | | |
| 05/22/06 - 05/28/06 | 168 | 7.1 | 10.1 | 8.4 | 100 | | |
| 05/29/06 - 06/04/06 | 168 | 5.2 | 7.9 | 6.9 | 100 | | |
| 06/05/06 - 06/11/06 | 168 | 6.5 | 8.2 | 7.5 | 100 | | |
| 06/12/06 - 06/18/06 | 168 | 6.3 | 8.5 | 7.5 | 100 | | |
| 06/19/06 - 06/25/06 | 168 | 6.3 | 8.7 | 7.2 | 100 | | |
| 06/26/06 - 07/02/06 | 168 | 7.0 | 9.2 | 7.7 | 100 | | |
| 07/03/06 - 07/09/06 | 168 | 6.1 | 8.1 | 7.0 | 100 | | |
| 07/10/06 - 07/16/06 | 168 | 5.9 | 9.6 | 6.9 | 100 | | |
| 07/17/06 - 07/23/06 | 168 | 4.8 | 8.3 | 6.1 | 99 | | |
| 07/24/06 - 07/30/06 | 168 | 5.4 | 7.4 | 6.3 | 100 | | |
| 07/31/06 - 08/06/06 | 168 | 4.2 | 6.9 | 5.5 | 77 | | |
| 08/07/06 - 08/13/06 | 168 | 5.8 | 7.7 | 6.5 | 100 | | |

TABLE A-4 (Continued): WEEKLY DO SUMMARY STATISTICS AT OGDEN AVENUE ON THE DES PLAINES RIVER DURING 2006

| | Number of | Percent DO Values Above | | | |
|---------------------|-----------|----------------------------|---------|------|---------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 08/14/06 - 08/20/06 | 168 | 6.2 | 8.1 | 7.0 | 100 |
| 08/21/06 - 08/27/06 | 168 | 6.4 | 7.9 | 7.0 | 100 |
| 08/28/06 - 09/03/06 | 168 | 6.9 | 8.2 | 7.4 | 100 |
| 09/04/06 - 09/10/06 | 168 | 7.3 | 8.2 | 7.6 | 100 |
| 09/11/06 - 09/17/06 | 168 | 7.5 | 8.3 | 7.9 | 100 |
| 09/18/06 - 09/24/06 | 168 | 7.1 | 9.1 | 8.1 | 100 |
| 09/25/06 - 10/01/06 | 168 | 7.8 | 9.5 | 8.7 | 100 |
| 10/02/06 - 10/08/06 | 168 | 6.8 | 9.2 | 8.1 | 100 |
| 10/09/06 - 10/15/06 | 168 | 8.3 | 10.4 | 9.3 | 100 |
| 10/16/06 - 10/22/06 | 168 | 8.5 | 10.1 | 9.4 | 100 |
| 10/23/06 - 10/29/06 | 168 | 9.4 | 11.2 | 10.5 | 100 |
| 10/30/06 - 11/05/06 | 169 | 10.5 | 12.7 | 11.6 | 100 |
| 11/06/06 - 11/12/06 | 168 | 9.9 | 12.1 | 10.7 | 100 |
| 11/13/06 - 11/19/06 | 167 | 10.9 | 11.9 | 11.4 | 100 |
| 11/20/06 - 11/26/06 | 168 | 10.6 | 12.5 | 11.7 | 100 |
| 11/27/06 - 12/03/06 | 168 | 8.6 | 11.8 | 10.2 | 100 |
| 12/04/06 - 12/10/06 | 168 | 11.8 | 14.4 | 13.1 | 100 |
| 12/11/06 - 12/17/06 | 168 | 11.1 | 13.7 | 12.0 | 100 |
| 12/18/06 - 12/24/06 | 168 | 10.6 | 13.0 | 11.8 | 100 |
| 12/25/06 - 12/31/06 | 168 | 11.6 | 12.5 | 12.2 | 100 |
| | | | | | |

TABLE A-5: WEEKLY DO SUMMARY STATISTICS AT MATERIAL SERVICE ROAD ON THE DES PLAINES RIVER DURING 2006

| | Number of | DO Cor | ncentration (mg | ₇ /L.) | Percent DO Values Above |
|---------------------|-----------|---------|-----------------|-------------------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| 01/02/04 01/09/04 | 05 | 11.4 | 16.2 | 12.2 | 100 |
| 01/02/06 - 01/08/06 | 85 | 11.4 | 16.3 | 13.2 | 100 |
| 01/09/06 - 01/15/06 | 168 | 11.4 | 18.2 | 13.7 | 100 |
| 01/16/06 - 01/22/06 | 82 | 11.2 | 17.6 | 13.1 | 100 |
| 01/23/06 - 01/29/06 | 85 | 11.6 | 19.5 | 15.1 | 100 |
| 01/30/06 - 02/05/06 | 168 | 10.5 | 13.9 | 12.2 | 100 |
| 02/06/06 - 02/12/06 | 83 | 12.7 | 16.1 | 14.5 | 100 |
| 02/13/06 - 02/19/06 | 86 | 12.0 | 13.8 | 12.8 | 100 |
| 02/20/06 - 02/26/06 | 168 | 13.5 | 16.3 | 14.9 | 100 |
| 02/27/06 - 03/05/06 | 168 | 13.3 | 16.6 | 15.2 | 100 |
| 03/06/06 - 03/12/06 | 168 | 9.1 | 17.2 | 12.6 | 100 |
| 03/13/06 - 03/19/06 | 168 | 9.3 | 12.7 | 11.0 | 100 |
| 03/20/06 - 03/26/06 | 168 | 11.6 | 13.7 | 12.5 | 100 |
| 03/27/06 - 04/02/06 | 168 | 9.6 | 13.5 | 11.3 | 100 |
| 04/03/06 - 04/09/06 | 168 | 8.9 | 13.2 | 10.3 | 100 |
| 04/10/06 - 04/16/06 | 168 | 8.4 | 14.2 | 10.7 | 100 |
| 04/17/06 - 04/23/06 | 168 | 7.5 | 16.2 | 10.2 | 100 |
| 04/24/06 - 04/30/06 | 168 | 7.1 | 17.1 | 10.4 | 100 |
| 05/01/06 - 05/07/06 | 168 | 6.6 | 14.8 | 8.9 | 100 |
| 05/08/06 - 05/14/06 | 168 | 7.7 | 15.1 | 9.7 | 100 |
| 05/15/06 - 05/21/06 | 168 | 8.4 | 14.2 | 10.8 | 100 |
| 05/22/06 - 05/28/06 | 168 | 5.8 | 15.3 | 10.2 | 100 |
| 05/29/06 - 06/04/06 | 168 | 4.1 | 13.4 | 6.7 | 80 |
| 06/05/06 - 06/11/06 | 168 | 5.4 | 9.7 | 7.0 | 100 |
| 06/12/06 - 06/18/06 | 168 | 5.5 | 11.1 | 7.9 | 100 |
| 06/19/06 - 06/25/06 | 168 | 5.3 | 12.2 | 8.0 | 100 |
| 06/26/06 - 07/02/06 | 168 | 5.9 | 12.3 | 8.1 | 100 |
| 07/03/06 - 07/09/06 | 107 | 5.7 | 14.6 | 9.3 | 100 |
| 07/10/06 - 07/16/06 | 85 | 4.8 | 10.9 | 6.7 | 78 |
| 07/17/06 - 07/23/06 | 168 | 4.2 | 15.5 | 7.2 | 83 |
| 07/24/06 - 07/30/06 | 83 | 5.1 | 9.2 | 6.6 | 100 |
| 07/31/06 - 08/06/06 | | | NO DATA | | |
| 08/07/06 - 08/13/06 | 84 | 5.0 | 8.2 | 6.2 | 100 |
| 08/14/06 - 08/20/06 | 168 | 5.0 | 10.1 | 6.8 | 100 |

TABLE A-5 (Continued): WEEKLY DO SUMMARY STATISTICS AT MATERIAL SERVICE ROAD ON THE DES PLAINES RIVER DURING 2006

| | Number of | Percent DO Values Above | | | |
|---------------------|-----------|----------------------------|----------------------------|------------|---------------|
| Monitoring Dates | DO Values | Minimum | ncentration (mg Maximum | Mean | IPCB Standard |
| 00/01/07 00/07/07 | 160 | 5.0 | 0.0 | <i>(</i> 2 | 100 |
| 08/21/06 - 08/27/06 | 168 | 5.0 | 9.0 | 6.3 | 100 |
| 08/28/06 - 09/03/06 | 168 | 5.5 | 9.8 | 6.9 | 100 |
| 09/04/06 - 09/10/06 | 168 | 5.8 | 10.2 | 7.3 | 100 |
| 09/11/06 - 09/17/06 | 168 | 5.6 | 8.6 | 7.0 | 100 |
| 09/18/06 - 09/24/06 | 168 | 6.3 | 9.8 | 7.5 | 100 |
| 09/25/06 - 10/01/06 | 168 | 6.7 | 10.3 | 8.0 | 100 |
| 10/02/06 - 10/08/06 | 168 | 5.4 | 9.6 | 6.9 | 100 |
| 10/09/06 - 10/15/06 | 168 | 7.7 | 11.2 | 9.2 | 100 |
| 10/16/06 - 10/22/06 | 168 | 7.8 | 10.5 | 9.1 | 100 |
| 10/23/06 - 10/29/06 | 168 | 9.3 | 11.5 | 9.9 | 100 |
| 10/30/06 - 11/05/06 | 169 | 9.5 | 14.0 | 11.4 | 100 |
| 11/06/06 - 11/12/06 | 168 | 8.6 | 14.9 | 11.4 | 100 |
| 11/13/06 - 11/19/06 | 168 | 8.6 | 14.0 | 11.1 | 100 |
| 11/20/06 - 11/26/06 | 168 | 10.9 | 16.9 | 13.4 | 100 |
| 11/27/06 - 12/03/06 | 168 | 8.2 | 15.4 | 10.4 | 100 |
| 12/04/06 - 12/10/06 | 168 | 12.0 | 14.7 | 13.6 | 100 |
| 12/11/06 - 12/17/06 | 168 | 9.2 | 14.2 | 11.2 | 100 |
| 12/18/06 - 12/24/06 | 168 | 9.9 | 12.7 | 11.1 | 100 |
| 12/25/06 - 12/31/06 | 168 | 10.4 | 12.2 | 11.4 | 100 |
| | | | | | |

TABLE A-6: WEEKLY DO SUMMARY STATISTICS AT BUSSE LAKE DAM ON SALT CREEK DURING 2006

| | Number of | DO Cor | ncentration (mg | ₇ /L.) | Percent DO Values Above |
|---------------------|-----------|---------|-----------------|-------------------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 01/01/06 - 01/01/06 | 24 | 13.2 | 13.7 | 13.4 | 100 |
| 01/02/06 - 01/08/06 | 168 | 13.0 | 14.1 | 13.5 | 100 |
| 01/09/06 - 01/15/06 | 168 | 12.9 | 13.9 | 13.4 | 100 |
| 01/16/06 - 01/22/06 | 168 | 12.7 | 14.1 | 13.4 | 100 |
| 01/23/06 - 01/29/06 | 168 | 12.7 | 14.2 | 13.4 | 100 |
| 01/30/06 - 02/05/06 | 168 | 12.9 | 13.8 | 13.3 | 100 |
| 02/06/06 - 02/12/06 | 168 | 13.9 | 14.5 | 14.1 | 100 |
| 02/13/06 - 02/19/06 | 168 | 13.9 | 15.7 | 14.8 | 100 |
| 02/20/06 - 02/26/06 | 168 | 14.8 | 15.4 | 15.0 | 100 |
| 02/27/06 - 03/05/06 | 168 | 13.7 | 17.6 | 14.5 | 100 |
| 03/06/06 - 03/12/06 | 168 | 11.7 | 14.1 | 13.1 | 100 |
| 03/13/06 - 03/19/06 | 168 | 11.1 | 12.6 | 11.8 | 100 |
| 03/20/06 - 03/26/06 | 168 | 11.9 | 13.5 | 12.8 | 100 |
| 03/27/06 - 04/02/06 | 168 | 11.0 | 13.4 | 12.5 | 100 |
| 04/03/06 - 04/09/06 | 167 | 11.7 | 12.7 | 12.3 | 100 |
| 04/10/06 - 04/16/06 | 167 | 10.1 | 12.5 | 11.1 | 100 |
| 04/17/06 - 04/23/06 | 168 | 8.7 | 11.1 | 10.3 | 100 |
| 04/24/06 - 04/30/06 | 168 | 7.1 | 11.1 | 9.2 | 100 |
| 05/01/06 - 05/07/06 | 168 | 9.1 | 11.2 | 10.3 | 100 |
| 05/08/06 - 05/14/06 | 168 | 8.1 | 11.0 | 9.7 | 100 |
| 05/15/06 - 05/21/06 | 167 | 9.5 | 11.1 | 10.5 | 100 |
| 05/22/06 - 05/28/06 | 168 | 7.8 | 9.8 | 9.0 | 100 |
| 05/29/06 - 06/04/06 | 168 | 6.9 | 8.8 | 8.1 | 100 |
| 06/05/06 - 06/11/06 | 168 | 5.2 | 8.4 | 7.0 | 100 |
| 06/12/06 - 06/18/06 | 168 | 7.1 | 9.4 | 8.6 | 100 |
| 06/19/06 - 06/25/06 | 168 | 5.0 | 10.4 | 7.7 | 100 |
| 06/26/06 - 07/02/06 | 168 | 7.0 | 10.1 | 8.6 | 100 |
| 07/03/06 - 07/09/06 | 168 | 6.2 | 8.6 | 7.6 | 100 |
| 07/10/06 - 07/16/06 | 168 | 2.9 | 8.9 | 7.2 | 92 |
| 07/17/06 - 07/23/06 | 168 | 3.9 | 8.4 | 6.9 | 97 |
| 07/24/06 - 07/30/06 | 168 | 5.1 | 8.5 | 7.3 | 100 |
| 07/31/06 - 08/06/06 | 168 | 3.5 | 8.0 | 6.2 | 86 |
| 08/07/06 - 08/13/06 | 167 | 3.2 | 8.8 | 6.1 | 76 |

TABLE A-6 (Continued): WEEKLY DO SUMMARY STATISTICS AT BUSSE LAKE DAM ON SALT CREEK DURING 2006

| | Number of | Percent DO Values Above | | | |
|---------------------|-----------|----------------------------|----------------------------|------|---------------|
| Monitoring Dates | DO Values | Minimum | ncentration (mg Maximum | Mean | IPCB Standard |
| 08/14/06 - 08/20/06 | 168 | 0.3 | 8.4 | 3.9 | 40 |
| 08/21/06 - 08/27/06 | 58 | 3.0 | 8.7 | 5.9 | 59 |
| 08/28/06 - 09/03/06 | 108 | 7.0 | 9.8 | 7.9 | 100 |
| 09/04/06 - 09/10/06 | 168 | 6.2 | 9.9 | 8.1 | 100 |
| 09/11/06 - 09/17/06 | 168 | 6.0 | 8.9 | 7.9 | 100 |
| 09/18/06 - 09/24/06 | 168 | 7.9 | 9.8 | 8.6 | 100 |
| 09/25/06 - 10/01/06 | 168 | 8.1 | 9.6 | 8.8 | 100 |
| 10/02/06 - 10/08/06 | 168 | 8.1 | 9.2 | 8.7 | 100 |
| 10/09/06 - 10/15/06 | 168 | 7.7 | 10.4 | 9.3 | 100 |
| 10/16/06 - 10/22/06 | 168 | 10.2 | 11.5 | 10.8 | 100 |
| 10/23/06 - 10/29/06 | 143 | 11.4 | 12.8 | 12.1 | 100 |
| 10/30/06 - 11/05/06 | 130 | 11.6 | 12.7 | 12.1 | 100 |
| 11/06/06 - 11/12/06 | 168 | 11.6 | 12.3 | 12.0 | 100 |
| 11/13/06 - 11/19/06 | 168 | 11.7 | 13.3 | 12.6 | 100 |
| 11/20/06 - 11/26/06 | 168 | 12.0 | 13.5 | 12.9 | 100 |
| 11/27/06 - 12/03/06 | 168 | 11.2 | 13.3 | 12.2 | 100 |
| 12/04/06 - 12/10/06 | 168 | 13.3 | 14.3 | 13.9 | 100 |
| 12/11/06 - 12/17/06 | 168 | 13.1 | 14.7 | 13.6 | 100 |
| 12/18/06 - 12/24/06 | 168 | 12.3 | 13.6 | 13.0 | 100 |
| 12/25/06 - 12/31/06 | 168 | 12.1 | 12.7 | 12.5 | 100 |

TABLE A-7: WEEKLY DO SUMMARY STATISTICS AT J. F. KENNEDY BOULEVARD ON SALT CREEK DURING 2006

| | Number of | DO Cor | Percent DO Values Above | | |
|---------------------|-----------|---------|----------------------------|------|---------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 01/01/06 - 01/01/06 | 24 | 10.0 | 11.3 | 10.4 | 100 |
| 01/02/06 - 01/08/06 | 168 | 9.4 | 11.6 | 10.6 | 100 |
| 01/09/06 - 01/15/06 | 168 | 9.2 | 12.5 | 10.3 | 100 |
| 01/16/06 - 01/22/06 | 168 | 9.5 | 12.6 | 10.6 | 100 |
| 01/23/06 - 01/29/06 | 168 | 9.3 | 12.5 | 10.5 | 100 |
| 01/30/06 - 02/05/06 | 168 | 10.3 | 12.6 | 11.2 | 100 |
| 02/06/06 - 02/12/06 | 168 | 9.5 | 12.8 | 11.0 | 100 |
| 02/13/06 - 02/19/06 | 168 | 9.2 | 13.5 | 11.5 | 100 |
| 02/20/06 - 02/26/06 | 168 | 9.6 | 13.1 | 11.2 | 100 |
| 02/27/06 - 03/05/06 | 168 | 8.9 | 13.2 | 10.3 | 100 |
| 03/06/06 - 03/12/06 | 168 | 9.3 | 13.4 | 11.6 | 100 |
| 03/13/06 - 03/19/06 | 168 | 10.3 | 12.4 | 11.4 | 100 |
| 03/20/06 - 03/26/06 | 168 | 9.5 | 13.2 | 10.8 | 100 |
| 03/27/06 - 04/02/06 | 167 | 8.6 | 13.3 | 10.1 | 100 |
| 04/03/06 - 04/09/06 | 167 | 8.4 | 11.8 | 10.2 | 100 |
| 04/10/06 - 04/16/06 | 168 | 7.5 | 12.3 | 9.4 | 100 |
| 04/17/06 - 04/23/06 | 168 | 7.4 | 11.3 | 9.3 | 100 |
| 04/24/06 - 04/30/06 | 168 | 5.9 | 11.1 | 8.0 | 100 |
| 05/01/06 - 05/07/06 | 168 | 7.5 | 11.0 | 9.1 | 100 |
| 05/08/06 - 05/14/06 | 168 | 6.7 | 10.0 | 8.4 | 100 |
| 05/15/06 - 05/21/06 | 168 | 7.4 | 10.4 | 9.0 | 100 |
| 05/22/06 - 05/28/06 | 168 | 6.5 | 9.3 | 7.7 | 100 |
| 05/29/06 - 06/04/06 | 168 | 5.9 | 9.7 | 7.6 | 100 |
| 06/05/06 - 06/11/06 | 168 | 5.2 | 11.2 | 7.6 | 100 |
| 06/12/06 - 06/18/06 | 168 | 5.8 | 9.9 | 7.8 | 100 |
| 06/19/06 - 06/25/06 | 168 | 5.4 | 12.2 | 7.6 | 100 |
| 06/26/06 - 07/02/06 | 168 | 5.9 | 10.0 | 7.8 | 100 |
| 07/03/06 - 07/09/06 | 168 | 5.3 | 10.7 | 7.2 | 100 |
| 07/10/06 - 07/16/06 | 168 | 5.3 | 10.1 | 7.2 | 100 |
| 07/17/06 - 07/23/06 | 168 | 5.3 | 9.6 | 6.9 | 100 |
| 07/24/06 - 07/30/06 | 168 | 5.1 | 8.7 | 6.8 | 100 |
| 07/31/06 - 08/06/06 | 168 | 5.2 | 8.7 | 6.7 | 100 |
| 08/07/06 - 08/13/06 | 168 | 5.5 | 9.0 | 7.0 | 100 |

TABLE A-7 (Continued): WEEKLY DO SUMMARY STATISTICS AT J. F. KENNEDY BOULEVARD ON SALT CREEK DURING 2006

| | Number of | Percent DO Values Above | | | |
|---------------------|-----------|----------------------------|---------|------|---------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 08/14/06 - 08/20/06 | 168 | 5.3 | 9.2 | 6.9 | 100 |
| 08/21/06 - 08/27/06 | 168 | 5.6 | 9.6 | 7.0 | 100 |
| 08/28/06 - 09/03/06 | 168 | 5.9 | 8.6 | 7.0 | 100 |
| 09/04/06 - 09/10/06 | 168 | 5.7 | 10.2 | 7.2 | 100 |
| 09/11/06 - 09/17/06 | 168 | 6.2 | 9.0 | 7.4 | 100 |
| 09/18/06 - 09/24/06 | 168 | 6.1 | 9.5 | 7.7 | 100 |
| 09/25/06 - 10/01/06 | 168 | 5.9 | 8.8 | 7.5 | 100 |
| 10/02/06 - 10/08/06 | 168 | 6.1 | 8.6 | 7.8 | 100 |
| 10/09/06 - 10/15/06 | 168 | 6.9 | 9.4 | 8.2 | 100 |
| 10/16/06 - 10/22/06 | 169 | 7.9 | 10.5 | 9.2 | 100 |
| 10/23/06 - 10/29/06 | 168 | 8.8 | 10.5 | 9.5 | 100 |
| 10/30/06 - 11/05/06 | 169 | 8.4 | 10.9 | 9.4 | 100 |
| 11/06/06 - 11/12/06 | 168 | 8.0 | 11.4 | 9.3 | 100 |
| 11/13/06 - 11/19/06 | 168 | 8.9 | 11.1 | 9.9 | 100 |
| 11/20/06 - 11/26/06 | 168 | 8.2 | 11.6 | 9.5 | 100 |
| 11/27/06 - 12/03/06 | 168 | 8.1 | 12.0 | 10.0 | 100 |
| 12/04/06 - 12/10/06 | 168 | 10.0 | 11.9 | 11.1 | 100 |
| 12/11/06 - 12/17/06 | 168 | 10.0 | 13.2 | 11.5 | 100 |
| 12/18/06 - 12/24/06 | 168 | 9.6 | 12.7 | 11.2 | 100 |
| 12/25/06 - 12/31/06 | 168 | 9.9 | 11.4 | 10.7 | 100 |
| | | | | | |

TABLE A-8: WEEKLY DO SUMMARY STATISTICS AT THORNDALE AVENUE ON SALT CREEK DURING 2006

| | Number of | DO Cor | ncentration (mg | ₂ /L) | Percent DO Values Above |
|-------------------------|-----------|---------|-----------------|------------------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 01/01/06 - 01/01/06 | 24 | 10.1 | 11.9 | 10.7 | 100 |
| 01/02/06 - 01/08/06 | 168 | 9.7 | 12.5 | 11.0 | 100 |
| 01/09/06 - 01/15/06 | 168 | 9.2 | 12.9 | 10.6 | 100 |
| 01/16/06 - 01/22/06 | 168 | 9.6 | 13.9 | 10.9 | 100 |
| 01/23/06 - 01/29/06 | 168 | 9.6 | 14.0 | 11.1 | 100 |
| 01/30/06 - 02/05/06 | 168 | 10.4 | 13.7 | 11.7 | 100 |
| 02/06/06 - 02/12/06 | 168 | 9.7 | 15.1 | 11.9 | 100 |
| 02/13/06 - 02/19/06 | 168 | 9.2 | 15.3 | 12.0 | 100 |
| 02/20/06 - 02/26/06 | 168 | 9.4 | 14.5 | 11.5 | 100 |
| 02/27/06 - 03/05/06 | 168 | 8.7 | 16.0 | 10.9 | 100 |
| 03/06/06 - 03/12/06 | 57 | 9.4 | 15.8 | 11.3 | 100 |
| 03/13/06 - 03/19/06 | 110 | 10.1 | 12.3 | 11.2 | 100 |
| 03/20/06 - 03/26/06 | 168 | 9.7 | 15.9 | 11.4 | 100 |
| 03/27/06 - 04/02/06 | 168 | 8.1 | 15.9 | 10.6 | 100 |
| 04/03/06 - 04/09/06 | 167 | 8.0 | 13.1 | 10.2 | 100 |
| 04/10/06 - 04/16/06 | 168 | 6.8 | 13.6 | 9.5 | 100 |
| 04/17/06 - 04/23/06 | 168 | 6.9 | 12.7 | 9.4 | 100 |
| 04/24/06 - 04/30/06 | 168 | 5.1 | 13.1 | 8.2 | 100 |
| 05/01/06 - 05/07/06 | 168 | 7.1 | 11.7 | 8.9 | 100 |
| 05/08/06 - 05/14/06 | 168 | 6.2 | 10.8 | 8.3 | 100 |
| 05/15/06 - 05/21/06 | 168 | 7.0 | 10.5 | 8.8 | 100 |
| 05/22/06 - 05/28/06 | 168 | 5.4 | 9.7 | 7.5 | 100 |
| 05/29/06 - 06/04/06 | 167 | 4.9 | 10.0 | 6.9 | 97 |
| 06/05/06 - 06/11/06 | 168 | 2.8 | 12.3 | 7.3 | 88 |
| 06/12/06 - 06/18/06 | 168 | 5.0 | 10.9 | 7.7 | 99 |
| 06/19/06 - 06/25/06 | 168 | 4.9 | 12.9 | 7.6 | 99 |
| 06/26/06 - 07/02/06 | 168 | 5.3 | 10.8 | 7.8 | 100 |
| 07/03/06 - 07/09/06 | 168 | 4.6 | 11.6 | 7.2 | 93 |
| 07/10/06 - 07/16/06 | 168 | 4.6 | 11.9 | 7.1 | 88 |
| 07/17/06 - 07/23/06 | 167 | 4.6 | 10.1 | 6.6 | 95 |
| 07/24/06 - 07/30/06 | 168 | 4.7 | 9.2 | 6.6 | 95 |
| 07/31/06 - 08/06/06 | 168 | 4.0 | 9.0 | 6.2 | 85 |
| 08/07/06 - 08/13/06 | 168 | 5.2 | 9.9 | 6.9 | 100 |

TABLE A-8 (Continued): WEEKLY DO SUMMARY STATISTICS AT THORNDALE AVENUE ON SALT CREEK DURING 2006

| | Number of | DO Coi | ncentration (mg | g/L) | Percent DO Values Above |
|---------------------|-----------|---------|-----------------|------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| 08/14/06 - 08/20/06 | 168 | 5.2 | 10.2 | 7.1 | 100 |
| 08/21/06 - 08/27/06 | 168 | 5.4 | 10.6 | 7.1 | 100 |
| 08/28/06 - 09/03/06 | 168 | 5.7 | 9.4 | 7.0 | 100 |
| 09/04/06 - 09/10/06 | 168 | 5.3 | 10.6 | 7.3 | 100 |
| 09/11/06 - 09/17/06 | 168 | 6.2 | 9.5 | 7.4 | 100 |
| 09/18/06 - 09/24/06 | 168 | 6.0 | 10.6 | 7.7 | 100 |
| 09/25/06 - 10/01/06 | 58 | 7.1 | 8.8 | 7.9 | 100 |
| 10/02/06 - 10/08/06 | | | NO DATA | | |
| 10/09/06 - 10/15/06 | | | NO DATA | | |
| 10/16/06 - 10/22/06 | | | NO DATA | | |
| 10/23/06 - 10/29/06 | | | NO DATA | | |
| 10/30/06 - 11/05/06 | | | NO DATA | | |
| 11/06/06 - 11/12/06 | 110 | 7.6 | 10.9 | 9.3 | 100 |
| 11/13/06 - 11/19/06 | 168 | 9.0 | 11.7 | 9.9 | 100 |
| 11/20/06 - 11/26/06 | 168 | 7.9 | 12.3 | 9.5 | 100 |
| 11/27/06 - 12/03/06 | 168 | 7.6 | 13.4 | 10.6 | 100 |
| 12/04/06 - 12/10/06 | 168 | 10.3 | 13.4 | 11.9 | 100 |
| 12/11/06 - 12/17/06 | 168 | 10.2 | 12.9 | 11.6 | 100 |
| 12/18/06 - 12/24/06 | 168 | 9.9 | 13.2 | 11.4 | 100 |
| 12/25/06 - 12/31/06 | 168 | 10.2 | 11.8 | 11.1 | 100 |

TABLE A-9: WEEKLY DO SUMMARY STATISTICS AT WOLF ROAD ON SALT CREEK DURING 2006

| | Number of | DO Cor | Percent DO Values Above | | |
|---------------------|-----------|---------|----------------------------|------|---------------|
| Monitoring Dates | DO Values | Minimum | ncentration (mg Maximum | Mean | IPCB Standard |
| | | | | | |
| 01/01/06 - 01/01/06 | 24 | 12.3 | 13.0 | 12.5 | 100 |
| 01/02/06 - 01/08/06 | 168 | 11.2 | 12.4 | 11.8 | 100 |
| 01/09/06 - 01/15/06 | 168 | 10.8 | 12.7 | 11.5 | 100 |
| 01/16/06 - 01/22/06 | 168 | 11.2 | 13.0 | 11.9 | 100 |
| 01/23/06 - 01/29/06 | 168 | 10.4 | 13.9 | 12.1 | 100 |
| 01/30/06 - 02/05/06 | 168 | 10.6 | 13.0 | 11.8 | 100 |
| 02/06/06 - 02/12/06 | 168 | 11.7 | 14.2 | 12.8 | 100 |
| 02/13/06 - 02/19/06 | 168 | 11.4 | 14.7 | 12.8 | 100 |
| 02/20/06 - 02/26/06 | 168 | 11.6 | 15.3 | 13.0 | 100 |
| 02/27/06 - 03/05/06 | 168 | 10.6 | 16.1 | 12.5 | 100 |
| 03/06/06 - 03/12/06 | 168 | 9.7 | 15.6 | 10.9 | 100 |
| 03/13/06 - 03/19/06 | 168 | 9.7 | 12.6 | 11.0 | 100 |
| 03/20/06 - 03/26/06 | 168 | 10.8 | 16.1 | 12.3 | 100 |
| 03/27/06 - 04/02/06 | 168 | 8.8 | 16.1 | 11.5 | 100 |
| 04/03/06 - 04/09/06 | 168 | 9.6 | 12.9 | 10.6 | 100 |
| 04/10/06 - 04/16/06 | 168 | 6.9 | 12.7 | 9.0 | 100 |
| 04/17/06 - 04/23/06 | 167 | 7.1 | 11.6 | 9.0 | 100 |
| 04/24/06 - 04/30/06 | 168 | 7.0 | 13.0 | 8.9 | 100 |
| 05/01/06 - 05/07/06 | 168 | 7.4 | 10.6 | 8.6 | 100 |
| 05/08/06 - 05/14/06 | 168 | 7.2 | 10.3 | 8.5 | 100 |
| 05/15/06 - 05/21/06 | 168 | 7.3 | 11.0 | 9.0 | 100 |
| 05/22/06 - 05/28/06 | 168 | 5.3 | 13.0 | 7.8 | 100 |
| 05/29/06 - 06/04/06 | 168 | 4.7 | 9.0 | 6.4 | 95 |
| 06/05/06 - 06/11/06 | 168 | 4.5 | 8.6 | 6.6 | 83 |
| 06/12/06 - 06/18/06 | 168 | 4.5 | 8.9 | 6.9 | 95 |
| 06/19/06 - 06/25/06 | 168 | 4.5 | 8.4 | 5.9 | 71 |
| 06/26/06 - 07/02/06 | 82 | 5.9 | 8.7 | 7.4 | 100 |
| 07/03/06 - 07/09/06 | 62 | 4.2 | 8.1 | 6.0 | 63 |
| 07/10/06 - 07/16/06 | 168 | 3.6 | 7.7 | 5.3 | 53 |
| 07/17/06 - 07/23/06 | 168 | 3.1 | 7.5 | 5.6 | 76 |
| 07/24/06 - 07/30/06 | 168 | 3.6 | 8.2 | 5.7 | 62 |
| 07/31/06 - 08/06/06 | 168 | 3.4 | 8.0 | 5.6 | 70 |
| 08/07/06 - 08/13/06 | 168 | 4.6 | 8.5 | 6.0 | 81 |

TABLE A-9 (Continued): WEEKLY DO SUMMARY STATISTICS AT WOLF ROAD ON SALT CREEK DURING 2006

| | Number of | DO Cor | ncentration (mg | g/L) | Percent DO Values Above |
|---------------------|-----------|---------|-----------------|------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| 08/14/06 - 08/20/06 | 168 | 5.0 | 8.8 | 6.3 | 100 |
| 08/21/06 - 08/27/06 | 168 | 5.4 | 8.6 | 6.6 | 100 |
| 08/28/06 - 09/03/06 | 168 | 6.0 | 8.7 | 7.0 | 100 |
| 09/04/06 - 09/10/06 | 167 | 5.9 | 8.4 | 6.9 | 100 |
| 09/11/06 - 09/17/06 | 168 | 6.5 | 8.2 | 7.4 | 100 |
| 09/18/06 - 09/24/06 | 169 | 6.4 | 9.3 | 7.6 | 100 |
| 09/25/06 - 10/01/06 | 168 | 7.6 | 9.2 | 8.2 | 100 |
| 10/02/06 - 10/08/06 | 168 | 6.1 | 8.9 | 7.9 | 100 |
| 10/09/06 - 10/15/06 | 168 | 7.8 | 10.2 | 8.9 | 100 |
| 10/16/06 - 10/22/06 | 168 | 8.2 | 10.0 | 9.1 | 100 |
| 10/23/06 - 10/29/06 | 168 | 8.9 | 10.7 | 9.7 | 100 |
| 10/30/06 - 11/05/06 | 169 | 8.7 | 11.8 | 10.2 | 100 |
| 11/06/06 - 11/12/06 | 168 | 8.3 | 10.8 | 9.4 | 100 |
| 11/13/06 - 11/19/06 | 168 | 9.8 | 10.9 | 10.3 | 100 |
| 11/20/06 - 11/26/06 | 168 | 8.8 | 11.5 | 10.4 | 100 |
| 11/27/06 - 12/03/06 | 168 | 7.8 | 12.5 | 9.9 | 100 |
| 12/04/06 - 12/10/06 | 167 | 12.1 | 14.4 | 13.1 | 100 |
| 12/11/06 - 12/17/06 | 168 | 10.7 | 12.6 | 11.6 | 100 |
| 12/18/06 - 12/24/06 | 168 | 10.4 | 12.3 | 11.3 | 100 |
| 12/25/06 - 12/31/06 | 168 | 10.6 | 12.3 | 11.6 | 100 |

TABLE A-10: WEEKLY DO SUMMARY STATISTICS AT HOHMAN AVENUE ON THE GRAND CALUMET RIVER DURING 2006

| | Normalian of | DO Cor | | ~/ T \ | Percent DO |
|---------------------|--------------|---------|-----------------|---------------|---------------|
| M ' D | Number of | | ncentration (mg | | Values Above |
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 01/01/06 - 04/30/06 | | | NO DATA | | |
| 05/01/06 - 05/07/06 | 109 | 0.1 | 5.4 | 0.8 | 2 |
| 05/08/06 - 05/14/06 | 168 | 0.0 | 8.1 | 1.6 | 11 |
| 05/15/06 - 05/21/06 | 168 | 0.3 | 6.9 | 4.1 | 14 |
| 05/22/06 - 05/28/06 | 59 | 2.2 | 4.5 | 3.6 | 0 |
| 05/29/06 - 06/04/06 | | | NO DATA | | |
| 06/05/06 - 06/11/06 | 109 | 1.2 | 9.0 | 4.1 | 37 |
| 06/12/06 - 06/18/06 | 168 | 0.8 | 8.0 | 3.1 | 23 |
| 06/19/06 - 06/25/06 | 168 | 1.2 | 7.9 | 3.9 | 17 |
| 06/26/06 - 07/02/06 | 168 | 1.9 | 5.8 | 3.6 | 12 |
| 07/03/06 - 07/09/06 | 168 | 0.6 | 5.2 | 2.5 | 3 |
| 07/10/06 - 07/16/06 | 168 | 0.0 | 6.9 | 2.9 | 15 |
| 07/17/06 - 07/23/06 | 59 | 1.0 | 6.1 | 2.6 | 8 |
| 07/24/06 - 07/30/06 | 109 | 0.0 | 10.0 | 1.5 | 14 |
| 07/31/06 - 08/06/06 | 58 | 0.2 | 3.5 | 0.9 | 0 |
| 08/07/06 - 08/13/06 | 109 | 0.0 | 5.8 | 1.0 | 4 |
| 08/14/06 - 08/20/06 | 58 | 0.2 | 5.9 | 1.4 | 7 |
| 08/21/06 - 08/27/06 | | | NO DATA | | |
| 08/28/06 - 09/03/06 | 109 | 0.6 | 6.2 | 1.9 | 6 |
| 09/04/06 - 09/10/06 | 59 | 0.5 | 6.5 | 1.5 | 10 |
| 09/11/06 - 09/17/06 | | | NO DATA | | |
| 09/18/06 - 09/24/06 | 109 | 0.2 | 9.3 | 3.2 | 27 |
| 09/25/06 - 10/01/06 | 168 | 0.2 | 10.9 | 2.6 | 18 |
| 10/02/06 - 10/08/06 | 168 | 0.1 | 6.6 | 1.9 | 1 |
| 10/09/06 - 10/15/06 | 167 | 0.1 | 5.8 | 3.1 | 8 |
| 10/16/06 - 10/22/06 | 168 | 0.0 | 8.0 | 2.1 | 2 |
| 10/23/06 - 10/29/06 | 59 | 0.7 | 5.9 | 2.6 | 10 |
| 10/30/06 - 11/05/06 | | | NO DATA | | |
| 11/06/06 - 11/12/06 | | | NO DATA | | |
| 11/13/06 - 11/19/06 | | | NO DATA | | |
| 11/20/06 - 11/26/06 | | | NO DATA | | |
| 11/27/06 - 12/03/06 | | | NO DATA | | |
| 12/04/06 - 12/10/06 | | | NO DATA | | |
| 12/11/06 - 12/17/06 | 109 | 0.7 | 7.6 | 4.5 | 37 |

TABLE A-10 (Continued): WEEKLY DO SUMMARY STATISTICS AT HOHMAN AVENUE ON THE GRAND CALUMET RIVER DURING 2006

| nber of | DO Concentration | on (mg/L) | Values Above |
|-------------|------------------|------------|-----------------|
| Values Mini | mum Maxin | num Mean | IPCB Standard |
| | | | _ |
| 168 | 0.3 | 4 3.9 | 32 |
| 168 | 0.7 6. | 5 3.0 | 8 |
| | 168 | 168 0.3 8. | 168 0.3 8.4 3.9 |

TABLE A-11: WEEKLY DO SUMMARY STATISTICS AT WENTWORTH AVENUE ON THE LITTLE CALUMET RIVER DURING 2006

| | Number of | DO Cor | ncentration (mg | g/L) | Percent DO Values Above |
|-------------------------|-----------|---------|-----------------|------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 01/02/06 - 01/08/06 | 108 | 10.0 | 11.8 | 10.9 | 100 |
| 01/09/06 - 01/15/06 | 168 | 8.4 | 11.7 | 10.4 | 100 |
| 01/16/06 - 01/22/06 | 168 | 9.8 | 11.7 | 10.8 | 100 |
| 01/23/06 - 01/29/06 | 168 | 9.6 | 12.8 | 11.6 | 100 |
| 01/30/06 - 02/05/06 | 168 | 10.1 | 12.0 | 10.7 | 100 |
| 02/06/06 - 02/12/06 | 168 | 11.2 | 12.7 | 11.9 | 100 |
| 02/13/06 - 02/19/06 | 168 | 10.0 | 13.8 | 12.1 | 100 |
| 02/20/06 - 02/26/06 | 168 | 11.5 | 13.9 | 12.5 | 100 |
| 02/27/06 - 03/05/06 | 168 | 10.9 | 13.6 | 12.2 | 100 |
| 03/06/06 - 03/12/06 | 167 | 8.6 | 14.1 | 10.8 | 100 |
| 03/13/06 - 03/19/06 | 168 | 8.0 | 11.5 | 10.3 | 100 |
| 03/20/06 - 03/26/06 | 168 | 10.0 | 12.7 | 11.3 | 100 |
| 03/27/06 - 04/02/06 | 168 | 7.5 | 14.3 | 10.6 | 100 |
| 04/03/06 - 04/09/06 | 166 | 7.7 | 12.6 | 10.0 | 100 |
| 04/10/06 - 04/16/06 | 168 | 5.0 | 10.9 | 7.9 | 100 |
| 04/17/06 - 04/23/06 | 168 | 6.9 | 8.7 | 7.4 | 100 |
| 04/24/06 - 04/30/06 | 60 | 6.5 | 7.8 | 7.1 | 100 |
| 05/01/06 - 05/07/06 | 109 | 6.3 | 7.4 | 6.9 | 100 |
| 05/08/06 - 05/14/06 | 168 | 4.3 | 8.1 | 6.7 | 99 |
| 05/15/06 - 05/21/06 | 168 | 6.5 | 8.0 | 7.3 | 100 |
| 05/22/06 - 05/28/06 | 168 | 2.9 | 7.3 | 5.2 | 44 |
| 05/29/06 - 06/04/06 | 168 | 0.0 | 5.0 | 3.6 | 3 |
| 06/05/06 - 06/11/06 | 168 | 3.6 | 7.3 | 5.0 | 28 |
| 06/12/06 - 06/18/06 | 168 | 3.6 | 6.6 | 5.2 | 58 |
| 06/19/06 - 06/25/06 | 168 | 2.8 | 5.9 | 4.2 | 11 |
| 06/26/06 - 07/02/06 | 168 | 1.8 | 7.6 | 4.9 | 36 |
| 07/03/06 - 07/09/06 | 168 | 1.8 | 9.6 | 5.1 | 44 |
| 07/10/06 - 07/16/06 | 168 | 2.0 | 7.9 | 4.3 | 17 |
| 07/17/06 - 07/23/06 | 168 | 1.4 | 6.5 | 3.5 | 5 |
| 07/24/06 - 07/30/06 | 168 | 1.6 | 6.0 | 3.6 | 5 |
| 07/31/06 - 08/06/06 | 168 | 1.8 | 5.3 | 3.0 | 1 |
| 08/07/06 - 08/13/06 | 168 | 1.9 | 6.2 | 3.7 | 5 |
| 08/14/06 - 08/20/06 | 168 | 3.1 | 6.5 | 4.3 | 16 |

TABLE A-11 (Continued): WEEKLY DO SUMMARY STATISTICS AT WENTWORTH AVENUE ON THE LITTLE CALUMET RIVER DURING 2006

| | Number of | DO Cor | ncentration (mg | g/L) | Percent DO Values Above |
|---------------------|-----------|---------|-----------------|------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| 00/01/04 00/07/04 | 1.50 | | | | |
| 08/21/06 - 08/27/06 | 168 | 3.4 | 5.4 | 4.3 | 5 |
| 08/28/06 - 09/03/06 | 168 | 3.3 | 5.8 | 5.0 | 68 |
| 09/04/06 - 09/10/06 | 168 | 4.0 | 7.2 | 5.3 | 85 |
| 09/11/06 - 09/17/06 | 168 | 4.7 | 7.5 | 5.9 | 97 |
| 09/18/06 - 09/24/06 | 168 | 4.8 | 7.1 | 6.0 | 89 |
| 09/25/06 - 10/01/06 | 168 | 6.0 | 7.6 | 6.7 | 100 |
| 10/02/06 - 10/08/06 | 168 | 4.3 | 8.0 | 6.6 | 98 |
| 10/09/06 - 10/15/06 | 168 | 5.4 | 8.6 | 7.3 | 100 |
| 10/16/06 - 10/22/06 | 168 | 6.6 | 8.6 | 7.8 | 100 |
| 10/23/06 - 10/29/06 | 169 | 7.3 | 9.5 | 8.5 | 100 |
| 10/30/06 - 11/05/06 | 169 | 6.1 | 9.5 | 8.2 | 100 |
| 11/06/06 - 11/12/06 | 168 | 6.1 | 8.2 | 6.9 | 100 |
| 11/13/06 - 11/19/06 | 168 | 7.7 | 9.6 | 8.8 | 100 |
| 11/20/06 - 11/26/06 | 168 | 8.4 | 10.3 | 9.7 | 100 |
| 11/27/06 - 12/03/06 | 168 | 6.1 | 13.1 | 9.7 | 100 |
| 12/04/06 - 12/10/06 | 168 | 11.4 | 13.5 | 12.6 | 100 |
| 12/11/06 - 12/17/06 | 168 | 9.3 | 11.6 | 10.9 | 100 |
| 12/18/06 - 12/24/06 | 168 | 9.5 | 11.1 | 10.3 | 100 |
| 12/25/06 - 12/31/06 | 168 | 8.3 | 10.9 | 10.0 | 100 |
| 12,25,00 12,51,00 | 100 | 0.2 | 10.7 | 10.0 | 100 |

TABLE A-12: WEEKLY DO SUMMARY STATISTICS AT ASHLAND AVENUE ON THE LITTLE CALUMET RIVER DURING 2006

| | Number of | DO Cor | Percent DO Values Above | | |
|---------------------|-----------|---------|----------------------------|------|---------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 01/01/06 - 01/01/06 | 24 | 10.7 | 11.4 | 11.0 | 100 |
| 01/02/06 - 01/08/06 | 168 | 9.1 | 12.0 | 10.3 | 100 |
| 01/09/06 - 01/15/06 | 168 | 8.5 | 11.3 | 10.3 | 100 |
| 01/16/06 - 01/22/06 | 168 | 9.7 | 11.6 | 10.7 | 100 |
| 01/23/06 - 01/29/06 | 168 | 9.0 | 12.2 | 11.4 | 100 |
| 01/30/06 - 02/05/06 | 168 | 9.1 | 11.4 | 10.5 | 100 |
| 02/06/06 - 02/12/06 | 168 | 11.0 | 12.4 | 11.7 | 100 |
| 02/13/06 - 02/19/06 | 168 | 9.9 | 13.6 | 11.9 | 100 |
| 02/20/06 - 02/26/06 | 168 | 11.3 | 13.9 | 12.6 | 100 |
| 02/27/06 - 03/05/06 | 168 | 10.1 | 14.9 | 12.5 | 100 |
| 03/06/06 - 03/12/06 | 168 | 8.1 | 14.7 | 10.9 | 100 |
| 03/13/06 - 03/19/06 | 168 | 2.8 | 11.4 | 9.7 | 99 |
| 03/20/06 - 03/26/06 | 168 | 10.8 | 12.9 | 11.6 | 100 |
| 03/27/06 - 04/02/06 | 168 | 7.6 | 12.7 | 10.1 | 100 |
| 04/03/06 - 04/09/06 | 168 | 7.3 | 12.2 | 9.4 | 100 |
| 04/10/06 - 04/16/06 | 168 | 4.3 | 12.1 | 7.6 | 91 |
| 04/17/06 - 04/23/06 | 168 | 6.7 | 8.2 | 7.2 | 100 |
| 04/24/06 - 04/30/06 | 168 | 6.7 | 8.0 | 7.3 | 100 |
| 05/01/06 - 05/07/06 | 168 | 5.7 | 7.6 | 6.6 | 100 |
| 05/08/06 - 05/14/06 | 168 | 4.6 | 8.0 | 6.0 | 77 |
| 05/15/06 - 05/21/06 | 168 | 6.4 | 8.0 | 7.2 | 100 |
| 05/22/06 - 05/28/06 | 168 | 4.1 | 6.8 | 5.3 | 53 |
| 05/29/06 - 06/04/06 | 168 | 3.4 | 5.5 | 4.4 | 2 |
| 06/05/06 - 06/11/06 | 168 | 3.6 | 7.7 | 5.1 | 35 |
| 06/12/06 - 06/18/06 | 168 | 3.9 | 6.8 | 5.7 | 76 |
| 06/19/06 - 06/25/06 | 168 | 2.9 | 4.9 | 3.8 | 0 |
| 06/26/06 - 07/02/06 | 58 | 3.4 | 5.0 | 4.1 | 0 |
| 07/03/06 - 07/09/06 | 86 | 3.1 | 5.3 | 4.1 | 13 |
| 07/10/06 - 07/16/06 | 168 | 3.8 | 5.3 | 4.5 | 16 |
| 07/17/06 - 07/23/06 | 168 | 3.2 | 5.6 | 4.0 | 5 |
| 07/24/06 - 07/30/06 | 168 | 2.9 | 5.1 | 3.8 | 1 |
| 07/31/06 - 08/06/06 | 167 | 2.6 | 4.7 | 3.8 | 0 |
| 08/07/06 - 08/13/06 | 168 | 3.3 | 5.7 | 4.4 | 11 |

TABLE A-12 (Continued): WEEKLY DO SUMMARY STATISTICS AT ASHLAND AVENUE ON THE LITTLE CALUMET RIVER DURING 2006

| | Number of DO Concentration | | | g/L) | Percent DO Values Above |
|---------------------|----------------------------|---------|---------|------|----------------------------|
| Monitoring Dates | DO Values | Minimum | Maximum | Mean | IPCB Standard |
| | | | | | |
| 08/14/06 - 08/20/06 | 168 | 3.8 | 5.8 | 4.5 | 17 |
| 08/21/06 - 08/27/06 | 168 | 4.5 | 6.3 | 5.1 | 66 |
| 08/28/06 - 09/03/06 | 168 | 4.6 | 7.4 | 5.8 | 92 |
| 09/04/06 - 09/10/06 | 168 | 4.9 | 7.3 | 5.9 | 99 |
| 09/11/06 - 09/17/06 | 168 | 4.2 | 7.2 | 6.4 | 97 |
| 09/18/06 - 09/24/06 | 168 | 5.4 | 7.4 | 6.4 | 100 |
| 09/25/06 - 10/01/06 | 168 | 5.8 | 7.5 | 6.5 | 100 |
| 10/02/06 - 10/08/06 | 168 | 5.5 | 7.7 | 6.6 | 100 |
| 10/09/06 - 10/15/06 | 168 | 5.7 | 8.8 | 7.2 | 100 |
| 10/16/06 - 10/22/06 | 168 | 7.1 | 8.4 | 7.7 | 100 |
| 10/23/06 - 10/29/06 | 168 | 6.5 | 9.8 | 8.1 | 100 |
| 10/30/06 - 11/05/06 | 169 | 5.4 | 8.7 | 7.4 | 100 |
| 11/06/06 - 11/12/06 | 59 | 5.5 | 7.5 | 6.5 | 100 |
| 11/13/06 - 11/19/06 | 108 | 8.0 | 9.7 | 9.0 | 100 |
| 11/20/06 - 11/26/06 | 168 | 8.5 | 10.6 | 9.7 | 100 |
| 11/27/06 - 12/03/06 | 168 | 6.9 | 11.4 | 9.0 | 100 |
| 12/04/06 - 12/10/06 | 168 | 11.2 | 13.2 | 12.4 | 100 |
| 12/11/06 - 12/17/06 | 168 | 10.0 | 12.0 | 10.9 | 100 |
| 12/18/06 - 12/24/06 | 168 | 9.8 | 11.7 | 10.6 | 100 |
| 12/25/06 - 12/31/06 | 168 | 9.7 | 12.2 | 11.3 | 100 |
| | | | | | |