**WATER-QUALITY DATA FOR THE OHIO RIVER FROM WILLOW ISLAND
DAM TO BELLEVILLE DAM, WEST VIRGINIA AND OHIO,
JUNE-NOVEMBER 1992**

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U.S. GEOLOGICAL SURVEY

Open-File Report 95-184

Prepared in cooperation with the

CITY OF NEW MARTINSVILLE, WEST VIRGINIA

Charleston, West Virginia

1995

CONVERSION FACTORS AND ABBREVIATIONS

Multiply	By	To obtain
inch (in.)	25.4	millimeter
foot (ft)	0.3048	meter
foot per mile (ft/mi)	0.1894	meter per kilometer
mile(mi)	1.609	kilometer
square mile (mi ²)	2.59	square kilometer

Temperature is given in degrees Celsius (°C), which can be converted to degrees Fahrenheit (°F) by use of the following equation:

$$^{\circ}\text{F} = 1.8(^{\circ}\text{C}) + 32$$

River mile: A unit of length applied to the main stem of a river to denote location. Typically, the mouth of a river is designated river mile zero and river mile length is measured upstream from this point. River mile zero on the Ohio River has been designated as the river's origin in Pittsburgh, Pa., however, and river mile length is measured downstream from this point.

Abbreviated water-quality units used in this report: Chemical concentrations and water temperature are given in metric units. Chemical concentration is given in grams per liter (g/L), milligrams per liter (mg/L), or micrograms per liter (µg/L). Milligrams per liter is a unit expressing the concentration of chemical constituents in solution as weight (milligrams) of solute per unit volume (liter) of water. One thousand milligrams per liter is equivalent to one gram per liter. One thousand micrograms per liter is equivalent to one milligram per liter. For concentrations less than 7,000 mg/L, the numerical value is the same as for concentrations in parts per million.

Specific conductance of water is expressed in microsiemens per centimeter at 25 degrees Celsius (µS/cm). This unit is equivalent to micromhos per centimeter at 25 degrees Celsius (µmho/cm), formerly used by the U.S. Geological Survey.

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ABSTRACT

This report contains water-quality data for the Ohio River from river mile 160.6 (1.1 mi upstream from Willow Island Dam) to river mile 203.6 (0.3 mi upstream from Belleville Dam) that were collected during the summer and fall of 1992. The data were collected to establish the water quality of the Ohio River and to use in assessing the proposed effects of hydropower development on the water quality of the Ohio River. Water quality was determined by a combination of synoptic field measurements, laboratory analyses, and continuous-record monitoring. Water-quality characteristics were measured in the field along a longitudinal transect with 24 mid-channel sampling sites; cross-sectional transects of water-quality measurements were made at 6 of these sites. Water quality also was measured at six sites located on the back-channel (West Virginia) sides of Marietta, Muskingum, and Blennerhassett Islands. Water temperature, dissolved oxygen concentration, pH, and specific conductance were measured at three depths (about 3.3 feet below the surface of the water, middle of the water column, and near the bottom of the river) at each longitudinal-transect and back-channel sampling site. Cross-sectional transects consisted of three or four detailed vertical profiles of the same characteristics. Water samples were collected at three depths in the mid-channel vertical profile in each cross-sectional transect and were analyzed for concentrations of phytoplankton chlorophyll *a* and chlorophyll *b*. Estimates of the depth of light penetration (Secchi disk transparency) were made at phytoplankton-pigment-sampling locations whenever light and river-surface conditions were appropriate. Each synoptic sampling event was completed in 2 days or less. The entire network was sampled six times from June 6 to September 21, 1992; partial sets of data were collected on October 22-23, and November 7, 1992.

Water quality was continuously monitored with hourly measurements of water temperature, dissolved oxygen concentration, pH, and specific conductance being taken at a depth of 6.6 feet at the ends of the upstream and downstream wingwalls at Willow Island Dam. Continuous-recording monitors were operated from June through November 1992.

INTRODUCTION

The U.S. Army Corps of Engineers has constructed and operates more than 60 lock-and-dam facilities in the Ohio River basin, with 20 facilities on the Ohio River mainstem and the rest on major tributaries in the basin (U.S. Army Corps of Engineers, 1990). The lock-and-dam structures form a system of contiguous navigation pools that insure year-round navigation on the river. Many dams also contain hydroelectric generators that were installed after construction of the navigation structures. The Federal Energy Regulatory Commission (FERC) recently issued licenses for hydropower retrofit at 19 dams in the upper Ohio River basin, which includes the Allegheny and Monongahela Rivers, and the Ohio River mainstem from Pittsburgh, Pa., to Huntington, W. Va. (fig. 1).

Some dams scheduled for hydropower development currently are thought to improve the water quality of the river by increasing the rate of gas transfer from the atmosphere to the water (Federal Energy Regulatory Commission, 1988). Water from deeper, slower-moving upstream pools is mixed as it passes over or through navigation structures, and the amount of surface area in contact with the atmosphere is increased. If the dissolved oxygen (DO) concentration is lower than the saturation concentration, the potential exists for absorption of oxygen into the water, a process known as reaeration.

The amount of oxygen added to the water by reaeration at a dam depends, in part, on flow conditions and design characteristics of the structure (Avery and Novak, 1978). Dams on the upper Ohio River downstream from Wheeling, W. Va., are gated structures that discharge several feet below the surface of the downstream pool and provide little reaeration (Federal Energy Regulatory Commission, 1988). Other dams, including overflow dams and gated dams with discharge above the downstream pool level, are more efficient aerators and can be important sources of DO during low-flow conditions of summer and early fall.

Dams upstream from Wheeling are of the latter type. Hydropower operation at these surface-discharging structures will divert riverflow through underwater intakes where the opportunity for atmospheric gas exchange is smaller. For dams upstream from Wheeling, the loss of reaeration at low flows, combined with the oxygen consumption associated with waste assimilation and the failure of other oxygen-generating processes such as algal photosynthesis, could reduce DO concentrations below acceptable levels and diminish the waste-assimilation capacity of the river (West Virginia Department of Natural Resources, 1989).

A water-quality monitoring program was begun in 1991 in cooperation with the city of New Martinsville, W. Va., and was designed, in part, to address license requirements for development of hydropower at Willow Island Dam (FERC Project No. 6902). This dam is located downstream from Wheeling, W. Va., and is of the deep-discharge type. The program uses continuous-record monitoring and synoptic sampling of water-quality characteristics near the dam and throughout the down-stream navigation pool during the summer and fall to provide basic hydrologic and ecologic data on the possible environmental effects of hydropower operation. Synoptic surveys, where water-quality characteristics are analyzed quickly at many locations and depths, have been recommended for incorporation into water-quality impact assessments of proposed hydropower projects at dams and other control structures (Gulliver and others, 1990; Daniil and others, 1991).

The study described in this report was conducted in the Belleville navigation pool, a 43-mi section of the Ohio River that begins at river mile 160.6 (1.1 mi upstream from Willow Island Dam) and extends downstream to river mile 203.6 (0.3 mi upstream from Belleville Dam) (fig. 2). The final environmental impact statement for development of hydropower at Willow Island Dam concluded that the dam provides little reaeration to the downstream pool (Federal Energy Regulatory Commission, 1988, p. 3-64).

Figure 1. Ohio River drainage basin.

Purpose and Scope

This report presents data collected in 1992 on the spatial and temporal distribution of selected water-quality characteristics in the Belleville pool of the Ohio River (fig. 2). This report contains water quality of the Belleville pool that was determined by continuous monitoring of conditions near Willow Island Dam and by repeated synoptic sampling of the entire 43-mi pool. Measurements of water temperature, DO concentration, pH, and specific conductance were collected at each sampling site in the network during synoptic-sampling periods of 2 days or less. Water samples were collected from three

depths and analyzed for photosynthetic-pigment concentrations. Estimates of the depth of light penetration (Secchi disk transparency) were made at pigment-sampling locations whenever light and river-surface conditions were appropriate. Water-quality measurements were made twice in June, once in July and August, and three times in September 1992. Partial sets of data were collected in October and November.

This report also contains data from continuous monitoring. The data consist of hourly measurements of water temperature, DO concentration, pH, and specific conductance, made at a depth of 6.6 ft at the ends of the upstream and downstream wingwalls at Willow Island Dam.

Figure 2. Ohio River study reach.

Continuous monitors were in operation from early June through November 1992.

Description of Study Area

Drainage area for the Ohio River at Belleville Dam is 39,300 mi². Most of the drainage basin up to the dam consists of narrow flood plains and deeply incised tributary valleys. Major tributaries in the study reach include the Muskingum River (drainage area: 8,040 mi²), the Little Kanawha River (drainage area: 2,320 mi²), and the Hocking River (drainage area: 1,190 mi²) (fig. 2). The basin is underlain by bedrock consisting mainly of shale, sandstone, siltstone, limestone,

and coal (West Virginia Department of Natural Resources, 1988). The average width of the Belleville pool is 1,327 ft. The average bottom slope is 0.5 ft/mi Ohio River Valley Water Sanitation Commission, 1988). Although the average depth of the pool is 24 ft, the depth of the main channel increases with distance downstream from the dam.

Streamflow in the upper Ohio River basin is related to precipitation and to the balance of precipitation and evapotranspiration. The climate of the region is considered temperate with distinct seasonal changes. Mean minimum air temperatures (-4.8°C) are generally recorded during January; mean maximum air temperatures

(30.2°C) are generally recorded during July. Average annual air temperature is about 12°C. Annual precipitation in the basin ranges from 20 to 72 in., with heaviest amounts occurring in June or July and minimum amounts occurring in October (West Virginia Department of Natural Resources, 1988). The U.S. Army Corps of Engineers constructed a system of multipurpose reservoirs on four main tributaries for flood control. These reservoirs also are used to augment flow and maintain navigation during critical periods.

Land use in the study reach is about 16 percent cropland, 12 percent pasture, 46 percent forest, 6 percent urban, and 20 percent other uses (Ohio River Valley Water Sanitation Commission, 1988). Major urban and industrial centers in the reach include Parkersburg, W. Va., and Marietta, Ohio (fig. 2). The reach includes one municipal drinking-water intake (a Ranney well at Parkersburg) and seven industrial water intakes. Industrial activity along the reach is associated mainly with chemical manufacturing and coal-fired electric-power generation. This section of the river is also used to transport petroleum products, chemicals, and other materials. There are 16 river terminals in the study reach, most of which are located between Marietta and Parkersburg (Ohio River Valley Water Sanitation Commission, 1988). The States of West Virginia and Ohio issued permits for 8 municipal and 22 industrial effluent discharges in the study reach.

DATA-COLLECTION METHODS

Water quality of the Belleville pool was determined by a combination of synoptic field measurements, laboratory analyses, and continuous-record monitoring. Field data were collected on June 6, June 22-23, July 29-30, August 12-13, September 14-15, September 17-18, and September 20-21, 1992. Partial sets of field data were collected on October 22-23 and November 7, 1992. Two continuous-recording monitors were in operation at Willow Island Dam from June 3 through November 19, 1992.

The field-data-collection network for the study consisted of a longitudinal transect with 24 mid-channel sampling sites; cross-sectional

transects of water-quality characteristics were made at 6 of these sites. Water quality also was measured at six sites located on the back-channel (West Virginia) sides of the three largest islands (Marietta, Muskingum, and Blennerhassett) in the Belleville pool. Measurements at each longitudinal-transect and back-channel sampling site included three-point vertical profiles of water temperature, DO concentration, pH, and specific conductance. Cross-sectional transects consisted of two to four detailed vertical profiles of the same characteristics. Water samples usually were collected at the mid-channel vertical profile in each cross-sectional transect and analyzed for photosynthetic-pigment concentrations as measures of the abundance of phytoplankton. Estimates of the depth of light penetration (Secchi disk transparency) were made at pigment-sampling locations whenever light and river-surface conditions were appropriate.

Sampling Cross-Sectional Transects

During each sampling period, water quality was measured in cross-sectional transects at six locations shown in figures 3a-3c. Two cross sections were located near Willow Island Dam, at the ends of the upstream and downstream wingwalls (river mile 161.4 and 162.1, respectively) (fig. 3a). Additional cross sections were located at Parkersburg, W. Va. (river mile 183.0) (fig. 3b), near the mouth of the Little Kanawha River (river mile 184.6) (fig. 3b), and at the downstream end of a large chemical manufacturing complex near Little Hocking, Ohio (river mile 192.9) (fig. 3c). One cross section was located at Belleville Dam at the end of the upstream wingwall (river mile 203.6) (fig. 3c).

Cross-sectional transects at the Willow Island Dam and Belleville Dam sites usually consisted of four vertical profiles of water temperature, DO concentration, pH, and specific conductance measurements. Positions of the vertical profiles were located by estimating 25, 50, 75, and 100 percent of the distance from the left bank to the edge of the wingwall and were sampled in random order to minimize the effects of diel changes (changes associated with a 24-hour period which includes both day and night). Cross-sectional transects at other locations

Figure 3a. Water-quality and cross-sectional sampling sites in the eastern (upstream) section of the study reach.

consisted of three vertical profiles, with positions determined by estimating 25, 50, and 75 percent of the total width of the river. Weather and river-surface conditions occasionally prevented completion of all vertical profiles in a transect. Vertical-profile measurements were made at depth intervals of about 3.3 ft using a portable, multiproperty water-quality monitoring system (Hydrolab¹ Surveyor 3). Measuring was begun either at the bottom of

the river or at 3.3 ft below the surface of the water. Barometric pressure was recorded before each set of field-data measurements by use of a Thommen TX altimeter-barometer.

Sampling Longitudinal Transects

Longitudinal transects consisted of measurements of water temperature, DO concentration, pH, and specific conductance, made at three depths (about 3.3 ft below the surface of the water, middle of the water column, and near the bottom of the river) at 24 mid-channel sampling sites distributed throughout the Belleville pool. Six additional sampling sites were located on the

¹. The use of brand, firm, or trade names in this report is for identification purposes and does not constitute endorsement by the U. S. Geological Survey.

Figure 3b. Water-quality and cross-sectional sampling sites in the middle section of the study reach.

Figure 3c. Water-quality and cross-sectional sampling sites in the western (downstream) section of the study reach.

back-channel (West Virginia) sides of Marietta, Muskingum, and Blennerhassett Islands. Locations of sampling sites are shown in figures 3a-3c. Each location corresponds to the position of a U.S. Coast Guard navigation light or daymark. Sampling methods and instruments were the same as for the cross-sectional transects.

Collection and Analysis of Photosynthetic-Pigment Samples and Light-Penetration Measurements

During most sampling periods, photosynthetic pigment concentrations of phytoplankton were measured at the mid-channel vertical profiles in each of the six cross-sectional transects. At each sampling site, water was collected from three depths (about 3.3 ft below the surface of the water, middle of the water column, and near the bottom of the river) in a 3.2-liter acrylic Kemmerer water sampler and transferred to 1-liter brown plastic bottles. Samples were stored in the dark at 4 °C until they were transported to the laboratory for processing.

All water samples were processed within 1 week of collection. Samples were filtered through glass-fiber filters (GF/C, 1.9-in. diameter) and the filters were shipped on dry ice to the USGS National Water Quality Laboratory in Arvada, Colo., for analysis. Concentrations of chlorophyll *a* and chlorophyll *b* in particulate material deposited on the filters were determined by high-pressure liquid chromatography with fluorometric detection as described by Britton and Greeson (1989, p. 223).

At each photosynthetic-pigment sampling site, an estimate of the depth of light penetration was made by lowering a 9-in.-diameter Secchi disk into the water until the disk was no longer visible from the surface, and recording the depth. All Secchi disk measurements were made between the hours of 1000 and 1600 Eastern Daylight Savings Time (EDT). Secchi disk depths were not recorded if the sampling time was outside this timeframe or if high surface waves made measurements impossible.

Continuous-Record Water-Quality Monitoring

Continuous-recording water-quality monitors were installed in June 1992 at sites upstream and downstream from Willow Island Dam (fig. 4). The monitors consisted of Hydrolab H₂O multi-property data transmitters connected to Handar 570A data-collection platforms, recording hourly measurements of water temperature, DO concentration, pH, and specific conductance, and transmitting data at 4-hour intervals by way of the Geostationary Operational Environmental Satellite (GOES). The upstream monitor was located at the end of the upstream wingwall on the river-side, about 1,200 ft from the dam (latitude 39°21'45"N, longitude 81°18'56"W), in a section of 6-in. polyvinyl chloride (PVC) pipe at a fixed depth of 6.6 ft. The downstream monitor was located in a similar position at the end of the downstream wingwall.

Quality Assurance

The portable water-quality monitoring system was calibrated at the beginning of each sampling period in accordance with the recommendations of the manufacturer (Hydrolab Corporation, 1991) and checked periodically during the day for meter drift. Barometric pressure was recorded before each set of field measurements by use of an analog barometer that was calibrated against a mercury barometer maintained by the National Weather Service Forecast Office in Charleston, W. Va.

The portable monitoring system measures DO concentration electrometrically with a standard membrane electrode. The electrode was calibrated by reading the meter against water-saturated air at known temperature and barometric pressure. As a further check of the accuracy of the DO concentration measurements, the electrode response was tested with a solution of sodium sulfite of sufficient concentration (about 1 g/L) to reduce DO concentration to below the detection limit (0.2 mg/L) of the meter (Skougstad and others, 1979).

Figure 4. Schematic diagram of Willow Island Dam showing locations of continuous-recording water-quality monitors.

At least once during each set of cross-sectional transect measurements, a water sample was collected from a point in the cross section at the same time that electrode measurements were recorded, and the DO concentration of the water sample was determined by the Winkler method with azide modification (American Public Health Association, and others, 1992, p. 4-100). The meter response was considered accurate if it differed from the results of the Winkler test by no more than 0.2 mg/L. Differences of less than 0.2 mg/L in reported DO concentrations probably are not significant. DO concentration as a percentage of the saturation concentration was calculated using the equations and tables of Weiss (1970).

ments were always made by the same individual between the hours of 1000 and 1600 EDT. Secchi disk depths were not recorded if the sampling time was outside this timeframe or if high flows or surface waves made measuring impossible.

The continuous-recording water-quality monitors were serviced and recalibrated according to the manufacturer's instructions at least once a week, and more frequently (up to twice per week) during periods of high water temperatures and low river flows. Two sensor packages were available for each monitoring location so that a precalibrated unit could be installed at a site and the existing unit removed and returned to the laboratory for servicing. Data were transmitted by

the GOES satellite to a local read-out ground station in Reston, Va., and from there by the GEONET network to the USGS National Water Information System (NWIS) data base. Personnel from the USGS West Virginia District performed daily quality control by scanning the unedited data, and checking for data interruptions and erroneous values. Raw data were checked for meter drift and corrected, when necessary, by assuming a linear rate of change between successive recalibrations.

WATER-QUALITY DATA

Water-quality data collected in the Ohio River from Willow Island Dam to Belleville Dam during June through November 1992 are presented in tables 1 through 38.

Cross-sectional and Longitudinal Transect Data

Tables 1-30 present water-quality data for cross-sectional and longitudinal transects. Each table contains all water-quality data collected during 1992 at the sampling point indicated. Sampling points are identified by station number and by river mile. The main shipping channel in the Belleville pool is always to the right (the Ohio side) of large islands; the back channel is always to the left (the West Virginia side) of the islands. In this report, locations for both main-channel and back-channel sampling sites are always given as the total distance from the left bank to the middle of the channel. At locations where cross-sectional-transect data were collected, the location of each depth profile is given as the estimated distance in feet from the left bank of the river, and the sampling depth is given in feet below the surface of the water.

Complete sets of field measurements are reported for the June 6, August 12-13, September 14-15, September 17-18, and September 20-21 sampling periods. Sampling sites at river miles 160.3 and 203.6 were not measured during July 29-30 because of high river flows. During the October 22-23 sampling period, severe weather conditions precluded sampling downstream from

river mile 175.5. Sampling on November 7 was restricted to river miles 160.6 and 161.4 because of equipment failure.

Chlorophyll concentration is used extensively to estimate phytoplankton biomass. Chlorophyll-*a* is abundant in all green plants and constitutes about 1 to 2 percent of phytoplankton dry weight (American Public Health Association, and others, 1992, p. 10-17). Chlorophyll *b* is an accessory pigment found in green algae and other phytoplankton taxa. Water samples with large amounts of suspended sediment were not analyzed for chlorophyll concentration. Most water samples collected during the July 29-30 sampling period contained large amounts of suspended sediment and could not be analyzed for chlorophyll concentrations; selected samples from river miles 161.4, 162.1, and 192.9 were analyzed and are the only reported values for this sampling period. High sediment content also precluded analysis of samples collected during the September 14-15 sampling period at river miles 161.4 and 162.1. Severe weather conditions during the October 22-23 and the November 7 sampling periods precluded sampling at river miles 183.0, 184.6, 192.9, and 203.6.

Secchi disk transparency is a measure of the relative amount of light available for photosynthesis (Wetzel and Likens, 1979). The depth at which the Secchi disk disappears from view is affected by the concentration of suspended particles and by light-absorbing characteristics of the water. No Secchi disk data were collected during the July 29-30, October 22-23, and November 7 sampling periods because of high flows on the river. Data also were not recorded for June 6 at river miles 184.6, 192.9, and 203.6; for September 14-15 at river mile 162.1; for September 17-18 at river miles 162.1 and 192.9; and for September 20-21 at river mile 161.4 because the time of sampling was not between the hours of 1000 and 1600.

Continuous-Recording Monitor Data

Continuously recorded monitored water-quality data for the Ohio River at the Willow Island Dam monitors from June through November 1992 are summarized in tables 31-38. These

tables contain daily mean values for water temperature, DO concentration and specific conductance, and daily median values for pH, for both upstream and downstream continuous-recording monitors. The monitor locations are identified by site number and as either the upstream or the downstream location; monitor locations are also shown in figure 4. If less than 80 percent of hourly values were recorded for a day, a mean value was not reported for that day. Maximum and minimum daily mean values for each physical property also are reported. Hourly records are stored permanently in the USGS NWIS data base.

SUMMARY

The water-quality data presented in this report were collected during the summer and fall of 1992 as part of a monitoring program designed to assess the effects of hydropower development on water quality in the Belleville navigation pool of the Ohio River (Ohio River miles 160.6 to 203.6). Data-collection methods combined synoptic sampling throughout the pool and continuous-record monitoring upstream and downstream from Willow Island Dam. The data were collected, in part, to satisfy license requirements (FERC Project No. 6902) for development of hydropower at Willow Island Dam.

Synoptic sampling consisted of collecting measurements of water temperature, dissolved oxygen concentration (DO), pH, and specific conductance, along a longitudinal transect consisting

of 24 main-channel sampling sites and 6 sites on the back-channel (West Virginia) sides of Marietta, Muskingum, and Blennerhassett Islands. Longitudinal-transect and back-channel sites were sampled in the middle of the channel at depths of about 3.3 ft below the surface of the water, at the middle of the water column, and near the bottom of the river. Cross-sectional transects of the same water-quality measurements were made at 6 of the 24 main-channel sites. Cross-sectional transects consisted of two to four vertical profiles with measurements at intervals of about 3.3 ft. In addition to these measurements, water samples usually were collected from three depths at the midpoints of the six cross-sectional transects and analyzed for concentrations of phytoplankton chlorophylls *a* and *b*. An estimate of the depth of light penetration (Secchi disk depth) was made at each phytoplankton-pigment sampling site whenever light and river-surface conditions were appropriate. The entire network was sampled six times from June 6 to September 21, 1992; partial sets of data were collected on October 22-23, and November 7, 1992.

Continuous-recording water-quality monitors were installed at the ends of the upstream and downstream wingwalls at Willow Island Dam. Hourly measurements of water temperature, DO concentration, pH, and specific conductance were recorded beginning in June and continued through November 1992. Mean daily values of water temperature, DO concentration, and specific conductance, and median daily values of pH also were reported.

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Table 1.--Water-quality data for station 392211081181201, Ohio River at river mile 160.6, June to November 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1052	3.6	700	376	7.0	21.3	--	7.8	90	--	--
6	1053	13	700	376	7.1	21.3	--	7.6	87	--	--
6	1054	23	700	377	7.1	21.3	--	7.5	87	--	--
22	1037	3.3	700	443	7.0	23.5	--	6.5	77	--	--
22	1038	11	700	444	7.0	23.5	--	6.4	77	--	--
22	1039	20	700	442	7.0	23.5	--	6.4	77	--	--
August											
12	1226	3.6	700	246	7.1	23.6	--	7.6	90	--	--
12	1225	13	700	246	7.1	23.5	--	7.6	90	--	--
12	1224	28	700	245	7.1	23.5	--	7.6	90	--	--
September											
14	2249	3.6	700	345	7.2	24.7	--	7.1	87	--	--
14	2248	17	700	344	7.1	24.3	--	7.1	86	--	--
14	2248	33	700	343	7.1	24.0	--	7.0	84	--	--
17	1424	3.3	700	360	7.2	25.1	--	7.3	90	--	--
17	1427	14	700	361	7.1	24.4	--	6.8	82	--	--
17	1426	28	700	361	7.1	24.4	--	6.8	82	--	--
20	1352	3.6	700	356	7.2	24.0	--	6.7	81	--	--
20	1352	14	700	357	7.2	24.0	--	6.7	80	--	--
20	1352	28	700	357	7.2	23.8	--	6.5	78	--	--
October											
22	1058	3.3	700	319	7.3	15.3	--	8.9	90	--	--
22	1059	14	700	319	7.4	15.3	--	8.8	90	--	--
22	1060	29	700	319	7.4	15.3	--	8.8	90	--	--
November											
07	1032	3.3	700	323	7.2	11.9	--	9.0	84	--	--
07	1032	14	700	322	7.2	11.9	--	9.1	85	--	--
07	1033	29	700	323	7.3	11.9	--	9.2	85	--	--

Table 2.--Water-quality data for station 392142081185201, Ohio River at river mile 161.4, June to November 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1104	3.3	300	377	7.1	21.3	--	7.5	87	--	--
6	1105	6.6	300	377	7.1	21.3	--	7.5	87	--	--
6	1107	9.8	300	377	7.1	21.3	--	7.5	87	--	--
6	1108	16	300	377	7.1	21.3	--	7.5	87	--	--
6	1113	23	300	377	7.1	21.3	--	7.5	86	--	--
6	1115	29	300	380	7.1	21.3	--	7.5	86	--	--
6	1116	35	300	377	7.1	21.3	--	7.5	86	--	--
6	1144	3.3	600	376	7.1	21.4	4.0	7.7	89	1.6	0.2
6	1145	6.6	600	376	7.1	21.4	--	7.6	88	--	--
6	1145	9.8	600	377	7.1	21.3	--	7.5	87	--	--
6	1145	13	600	--	--	--	--	--	--	1.9	.1
6	1146	16	600	378	7.1	21.3	--	7.5	87	--	--
6	1146	23	600	376	7.1	21.3	--	7.5	87	--	--
6	1145	26	600	--	--	--	--	--	--	2.0	.1
6	1147	30	600	376	7.1	21.3	--	7.5	87	--	--
6	1148	32	600	373	7.1	21.3	--	7.5	87	--	--
6	1151	3.3	900	376	7.1	21.4	--	7.7	89	--	--
6	1152	6.6	900	377	7.1	21.3	--	7.6	88	--	--
6	1152	16	900	378	7.1	21.3	--	7.6	88	--	--
6	1153	9.8	900	379	7.1	21.3	--	7.6	88	--	--
6	1154	23	900	378	7.1	21.3	--	7.5	87	--	--
6	1158	30	900	378	7.1	21.3	--	7.5	87	--	--
6	1212	3.6	1,300	378	7.2	21.6	--	7.9	91	--	--
6	1214	6.6	1,300	378	7.1	21.4	--	7.7	89	--	--
6	1214	9.8	1,300	380	7.1	21.4	--	7.5	87	--	--
6	1215	16	1,300	380	7.1	21.3	--	7.4	86	--	--
6	1216	20	1,300	380	7.1	21.3	--	7.4	85	--	--
22	1226	3.3	300	444	7.0	23.9	--	6.9	83	--	--
22	1227	6.6	300	444	7.0	23.7	--	6.8	81	--	--
22	1228	9.8	300	444	7.0	23.5	--	6.7	80	--	--
22	1229	16	300	445	7.0	23.5	--	6.6	79	--	--
22	1231	20	300	445	7.0	23.5	--	6.6	78	--	--
22	1159	3.0	600	444	7.0	23.8	4.0	6.7	81	.6	.1
22	1211	6.6	600	444	7.0	23.6	--	6.8	81	--	--
22	1213	10	600	445	7.0	23.5	--	6.6	79	--	--
22	1214	17	600	444	7.0	23.5	--	6.5	78	1.1	.1
22	1215	23	600	444	7.0	23.5	--	6.6	78	--	--
22	1223	30	600	445	7.0	23.4	--	6.6	78	1.2	.1

Table 2.--Water-quality data for station 392142081185201, Ohio River at river mile 161.4, June to November 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (µg/L)	Chlorophyll <i>b</i> (µg/L)
June											
22	1234	3.3	900	444	7.1	23.8	--	7.0	84	--	--
22	1235	6.9	900	444	7.0	23.5	--	6.7	80	--	--
22	1236	9.8	900	444	7.0	23.5	--	6.6	79	--	--
22	1237	16	900	443	7.0	23.5	--	6.6	79	--	--
22	1240	23	900	441	7.0	23.5	--	6.6	78	--	--
22	1241	30	900	445	7.0	23.5	--	6.5	78	--	--
22	1242	33	900	445	7.0	23.4	--	6.5	78	--	--
July											
29	1056	3.9	1,300	285	7.2	23.3	--	7.4	88	--	--
29	1056	6.6	1,300	285	7.2	23.3	--	7.5	88	--	--
29	1057	9.5	1,300	285	7.2	23.3	--	7.4	88	--	--
29	1057	16	1,300	285	7.2	23.3	--	7.4	88	--	--
29	1058	24	1,300	286	7.2	23.3	--	7.4	88	--	--
29	1058	30	1,300	285	7.2	23.2	--	7.4	88	--	--
29	1059	32	1,300	284	7.3	23.2	--	7.4	88	--	--
29	1158	3.9	600	279	7.2	23.2	--	7.6	89	0.7	0.1
29	1157	6.2	600	279	7.2	23.2	--	7.6	89	--	--
29	1156	9.5	600	281	7.2	23.2	--	7.6	89	--	--
29	1155	17	600	280	7.2	23.2	--	7.6	89	--	--
29	1154	24	600	283	7.2	23.2	--	7.6	89	--	--
August											
12	1347	3.3	300	248	7.1	24.0	--	7.6	90	--	--
12	1346	7.5	300	246	7.1	23.7	--	7.6	90	--	--
12	1346	10	300	247	7.1	23.6	--	7.6	90	--	--
12	1345	16	300	246	7.1	23.6	--	7.6	90	--	--
12	1345	22	300	247	7.1	23.6	--	7.6	90	--	--
12	1337	3.3	600	247	7.1	23.7	2.5	7.6	90	.7	.1
12	1336	6.9	600	246	7.1	23.7	--	7.6	90	--	--
12	1336	9.8	600	247	7.1	23.6	--	7.6	89	--	--
12	1335	17	600	246	7.1	23.6	--	7.6	90	.8	.1
12	1334	23	600	247	7.1	23.6	--	7.6	90	--	--
12	1333	29	600	247	7.1	23.6	--	7.6	90	.8	.1
12	1322	3.3	900	248	7.1	24.2	--	7.7	92	--	--
12	1323	7.2	900	247	7.1	23.6	--	7.7	91	--	--
12	1324	11	900	246	7.1	23.6	--	7.7	90	--	--
12	1324	16	900	247	7.1	23.6	--	7.6	90	--	--
12	1327	23	900	246	7.1	23.5	--	7.6	90	--	--
12	1326	30	900	247	7.1	23.6	--	7.6	90	--	--
12	1326	31	900	247	7.1	23.6	--	7.6	90	--	--

Table 2.--Water-quality data for station 392142081185201, Ohio River at river mile 161.4, June to November 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
August											
12	1300	3.0	1,300	248	6.7	24.1	--	7.4	89	--	--
12	1300	6.6	1,300	248	6.9	24.3	--	7.4	88	--	--
12	1301	10	1,300	246	7.0	23.8	--	7.4	87	--	--
12	1301	16	1,300	247	7.0	23.6	--	7.3	86	--	--
12	1302	23	1,300	246	7.0	23.6	--	7.3	86	--	--
12	1303	30	1,300	246	7.0	23.6	--	7.3	86	--	--
12	1303	32	1,300	245	7.1	23.6	--	7.3	86	--	--
September											
14	2301	3.9	1,300	344	7.2	24.4	--	7.3	88	--	--
14	2301	6.9	1,300	343	7.2	24.3	--	7.3	88	--	--
14	2300	10	1,300	344	7.2	24.3	--	7.3	88	--	--
14	2260	17	1,300	344	7.2	24.3	--	7.2	87	--	--
14	2259	23	1,300	344	7.2	24.3	--	7.2	86	--	--
14	2258	30	1,300	343	7.2	24.2	--	7.1	86	--	--
14	2256	37	1,300	344	7.1	24.2	--	7.1	109	--	--
14	2305	3.9	900	345	7.2	24.6	--	7.3	89	--	--
14	2305	6.9	900	345	7.2	24.6	--	7.3	89	--	--
14	2306	9.8	900	345	7.2	24.5	--	7.2	87	--	--
14	2306	17	900	344	7.2	24.2	--	7.2	86	--	--
14	2307	23	900	343	7.2	24.1	--	7.1	85	--	--
14	2308	30	900	343	7.2	24.1	--	7.1	85	--	--
14	2308	34	900	344	7.2	24.1	--	7.1	85	--	--
14	2312	3.6	600	344	7.2	24.5	--	7.3	88	--	--
14	2312	6.9	600	342	7.2	24.4	--	7.2	87	--	--
14	2313	10	600	343	7.2	24.2	--	7.1	86	--	--
14	2314	17	600	342	7.2	24.1	--	7.1	85	--	--
14	2314	23	600	345	7.2	24.1	--	7.0	85	--	--
14	2315	30	600	342	7.2	24.1	--	7.0	84	--	--
14	2315	31	600	344	7.2	24.0	--	7.0	84	--	--
14	2317	3.6	300	345	7.2	24.6	--	7.2	88	--	--
14	2320	6.9	300	345	7.2	24.5	--	7.2	87	--	--
14	2320	10	300	344	7.2	24.2	--	7.1	86	--	--
14	2321	17	300	343	7.2	24.1	--	7.0	85	--	--
14	2322	23	300	344	7.2	24.1	--	7.0	84	--	--
17	1433	3.0	300	360	7.2	25.4	--	7.2	88	--	--
17	1434	6.6	300	360	7.2	25.1	--	7.1	86	--	--
17	1435	9.8	300	360	7.2	24.4	--	6.8	82	--	--
17	1435	16	300	359	7.1	24.4	--	6.8	82	--	--
17	1435	22	300	360	7.2	24.4	--	6.8	82	--	--

Table 2.--Water-quality data for station 392142081185201, Ohio River at river mile 161.4, June to November 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
September											
17	1443	3.6	600	360	7.2	25.2	5.0	7.1	87	1.2	0.1
17	1442	7.2	600	360	7.1	24.6	--	6.9	83	--	--
17	1442	10	600	359	7.1	24.4	--	6.8	82	--	--
17	1441	17	600	360	7.1	24.4	--	6.8	82	.9	.1
17	1440	23	600	360	7.1	24.4	--	6.8	82	--	--
17	1439	31	600	360	7.2	24.4	--	6.8	82	1.1	.1
17	1451	3.3	900	360	7.2	25.3	--	7.2	88	--	--
17	1451	6.9	900	360	7.2	25.1	--	7.1	87	--	--
17	1452	9.8	900	360	7.2	25.0	--	7.0	86	--	--
17	1453	16	900	359	7.2	24.4	--	6.8	82	--	--
17	1453	23	900	359	7.1	24.4	--	6.8	82	--	--
17	1454	29	900	359	7.1	24.4	--	6.7	81	--	--
17	1454	33	900	359	7.1	24.4	--	6.7	82	--	--
17	1503	3.3	1,300	358	7.2	24.6	--	7.0	84	--	--
17	1505	6.9	1,300	359	7.1	24.6	--	6.9	83	--	--
17	1506	10	1,300	359	7.1	24.6	--	6.9	83	--	--
17	1507	17	1,300	359	7.1	24.6	--	6.8	82	--	--
17	1507	23	1,300	359	7.1	24.4	--	6.8	82	--	--
17	1508	30	1,300	359	7.1	24.4	--	6.8	82	--	--
17	1509	33	1,300	359	7.1	24.4	--	6.7	81	--	--
20	1355	3.3	1,300	357	7.2	24.3	--	6.8	83	--	--
20	1356	6.6	1,300	357	7.2	24.0	--	6.7	81	--	--
20	1357	9.8	1,300	357	7.2	24.0	--	6.7	81	--	--
20	1358	16	1,300	358	7.2	23.9	--	6.7	80	--	--
20	1359	23	1,300	357	7.2	23.9	--	6.7	80	--	--
20	1400	30	1,300	357	7.2	23.9	--	6.6	80	--	--
20	1401	32	1,300	355	7.2	23.9	--	6.7	80	--	--
20	1413	3.3	900	356	7.2	24.1	--	6.7	81	--	--
20	1412	6.6	900	357	7.2	24.0	--	6.7	80	--	--
20	1411	9.8	900	357	7.2	24.0	--	6.7	80	--	--
20	1411	16	900	357	7.2	23.8	--	6.6	79	--	--
20	1410	23	900	357	7.2	23.7	--	6.6	79	--	--
20	1409	30	900	357	7.2	23.7	--	6.5	78	--	--
20	1408	32	900	357	7.2	23.7	--	6.5	78	--	--
20	1419	3.0	600	356	7.2	24.2	--	6.7	81	1.4	.1
20	1419	6.6	600	357	7.2	23.9	--	6.7	80	--	--
20	1418	10	600	357	7.2	23.8	--	6.6	79	--	--
20	1418	17	600	357	7.2	23.7	--	6.6	79	.9	.1
20	1417	23	600	359	7.2	23.7	--	6.5	78	--	--
20	1417	31	600	364	7.2	23.7	--	6.5	78	1.0	.1

Table 2.--Water-quality data for station 392142081185201, Ohio River at river mile 161.4, June to November 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (µg/L)	Chlorophyll <i>b</i> (µg/L)
September											
20	1424	3.6	300	362	7.2	24.2	--	6.7	81	--	--
20	1427	6.2	300	356	7.2	23.8	--	6.6	79	--	--
20	1427	9.8	300	357	7.2	23.7	--	6.5	78	--	--
20	1426	16	300	359	7.2	23.7	--	6.5	78	--	--
20	1425	21	300	363	7.2	23.7	--	6.5	78	--	--
October											
22	1105	3.3	300	319	7.4	15.5	--	8.8	89	--	--
22	1106	6.6	300	319	7.4	15.4	--	8.8	90	--	--
22	1107	9.9	300	319	7.4	15.3	--	8.8	89	--	--
22	1108	16	300	319	7.4	15.3	--	8.8	89	--	--
22	1109	22	300	319	7.4	15.3	--	8.8	89	--	--
22	1116	3.3	600	319	7.4	15.5	3.5	8.8	89	--	--
22	1117	6.6	600	319	7.4	15.4	--	8.8	90	--	--
22	1118	9.9	600	319	7.4	15.4	--	8.8	89	--	--
22	1119	16	600	319	7.4	15.3	--	8.8	89	--	--
22	1120	23	600	319	7.4	15.3	--	8.8	89	--	--
22	1121	31	600	319	7.4	15.3	--	8.8	89	--	--
22	1126	3.3	900	319	7.4	15.6	--	8.8	89	--	--
22	1127	6.6	900	319	7.4	15.4	--	8.8	90	--	--
22	1128	9.9	900	319	7.4	15.4	--	8.8	89	--	--
22	1129	16	900	319	7.4	15.4	--	8.8	89	--	--
22	1130	23	900	319	7.4	15.3	--	8.8	89	--	--
22	1131	30	900	319	7.4	15.3	--	8.8	89	--	--
22	1132	33	900	319	7.4	15.3	--	8.8	89	--	--
22	1154	3.3	1,300	319	7.4	15.3	--	8.9	89	--	--
22	1155	6.6	1,300	319	7.3	15.3	--	8.8	90	--	--
22	1156	9.9	1,300	319	7.3	15.3	--	8.8	89	--	--
22	1157	16	1,300	319	7.4	15.3	--	8.8	89	--	--
22	1158	23	1,300	319	7.3	15.3	--	8.7	89	--	--
22	1159	30	1,300	319	7.4	15.3	--	8.7	89	--	--
22	1160	35	1,300	319	7.3	15.3	--	8.8	89	--	--
November											
7	1044	3.3	300	321	7.1	12.0	--	9.0	85	--	--
7	1044	6.6	300	321	7.2	11.9	--	9.0	84	--	--
7	1045	9.8	300	321	7.2	11.9	--	8.7	81	--	--
7	1045	16	300	320	7.2	11.8	--	8.7	81	--	--
7	1045	20	300	322	7.2	11.8	--	9.0	84	--	--

Table 2.--Water-quality data for station 392142081185201, Ohio River at river mile 161.4, June to November 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (µg/L)	Chlorophyll <i>b</i> (µg/L)
November											
7	1055	3.3	600	322	7.1	11.9	--	9.0	84	--	--
7	1055	6.6	600	322	7.1	11.9	--	9.0	84	--	--
7	1056	9.8	600	322	7.1	11.8	--	9.0	84	--	--
7	1056	16	600	323	7.1	11.8	--	9.0	84	--	--
7	1056	23	600	323	7.1	11.8	--	8.8	83	--	--
7	1057	29	600	323	7.1	11.8	--	9.0	84	--	--
7	1102	3.3	900	323	7.1	11.8	--	9.0	84	--	--
7	1102	6.6	900	322	7.1	11.8	--	8.9	83	--	--
7	1103	9.8	900	323	7.1	11.8	--	9.0	84	--	--
7	1103	16	900	322	7.1	11.8	--	8.8	82	--	--
7	1103	23	900	326	7.1	11.8	--	8.8	82	--	--
7	1104	30	900	323	7.1	11.8	--	8.6	81	--	--
7	1104	31	900	323	7.1	11.8	--	9.0	84	--	--
7	1111	3.3	1,300	323	7.1	11.8	--	9.1	85	--	--
7	1111	6.6	1,300	323	7.1	11.8	--	9.1	84	--	--
7	1112	9.8	1,300	323	7.1	11.8	--	8.9	83	--	--
7	1112	16	1,300	323	7.1	11.8	--	8.9	83	--	--
7	1112	23	1,300	323	7.1	11.8	--	9.1	85	--	--
7	1113	30	1,300	323	7.1	11.8	--	9.1	85	--	--
7	1113	33	1,300	323	7.1	11.8	--	9.1	85	--	--

Table 3.--Water-quality data for station 392121081193401, Ohio River at river mile 162.1, June to October 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1402	3.3	300	376	7.2	21.7	--	7.5	88	--	--
6	1407	5.9	300	377	7.1	21.6	--	7.5	88	--	--
6	1408	8.9	300	376	7.1	21.6	--	7.5	87	--	--
6	1409	12	300	378	7.1	21.6	--	7.5	87	--	--
6	1354	3.0	500	376	7.2	21.6	3.5	7.6	88	1.6	0.1
6	1355	6.2	500	377	7.1	21.6	--	7.5	87	--	--
6	1355	9.2	500	377	7.1	21.6	--	7.5	87	1.2	.1
6	1356	15	500	376	7.1	21.5	--	7.5	87	--	--
6	1340	3.0	800	377	7.1	21.5	--	7.6	88	--	--
6	1341	6.2	800	377	7.1	21.5	--	7.6	88	--	--
6	1342	8.9	800	378	7.1	21.5	--	7.5	88	--	--
6	1342	16	800	376	7.1	21.5	--	7.6	88	--	--
6	1343	20	800	377	7.1	21.5	--	7.5	87	--	--
6	1333	2.6	1,000	377	7.1	21.6	--	7.5	87	--	--
6	1333	6.2	1,000	376	7.1	21.6	--	7.5	87	--	--
6	1334	9.5	1,000	378	7.1	21.5	--	7.5	87	--	--
6	1337	16	1,000	379	7.1	21.5	--	7.5	87	--	--
6	1337	22	1,000	378	7.0	21.5	--	7.5	87	--	--
22	1448	3.3	300	447	7.0	23.8	--	6.4	76	--	--
22	1448	6.6	300	447	7.0	23.7	--	6.4	76	--	--
22	1449	9.8	300	448	7.0	23.7	--	6.3	75	--	--
22	1449	16	300	447	7.0	23.7	--	6.2	75	--	--
22	1450	23	300	446	6.9	23.7	--	6.2	75	--	--
22	1455	3.6	500	449	7.0	23.7	3.5	6.8	82	1.3	.1
22	1456	6.2	500	448	7.0	23.7	--	6.5	78	--	--
22	1457	10	500	448	7.0	23.7	--	6.5	78	1.0	.1
22	1458	16	500	448	7.0	23.7	--	6.5	77	1.2	.1
22	1460	20	500	446	7.0	23.7	--	6.4	77	--	--
22	1506	3.9	800	447	7.0	23.7	--	6.5	78	--	--
22	1506	7.2	800	448	7.0	23.7	--	6.5	77	--	--
22	1508	9.8	800	446	7.0	23.7	--	6.5	77	--	--
22	1508	10	800	446	7.0	23.7	--	6.5	77	--	--
22	1509	17	800	446	7.0	23.7	--	6.5	77	--	--
22	1510	21	800	446	7.0	23.7	--	6.4	77	--	--

Table 3.--Water-quality data for station 392121081193401, Ohio River at river mile 162.1, June to October 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (µg/L)	Chlorophyll <i>b</i> (µg/L)
July											
29	1139	3.3	300	281	7.2	23.2	--	7.5	88	--	--
29	1140	7.2	300	281	7.2	23.2	--	7.5	88	--	--
29	1141	9.8	300	281	7.2	23.2	--	7.5	88	--	--
29	1142	17	300	281	7.2	23.2	--	7.5	88	--	--
29	1145	23	300	281	7.2	23.2	--	7.5	88	--	--
29	1144	29	300	280	7.2	23.2	--	7.4	88	--	--
29	1213	3.3	800	281	7.2	23.3	--	7.6	90	--	--
29	1212	6.6	800	280	7.2	23.3	--	7.6	89	--	--
29	1212	9.2	800	280	7.2	23.3	--	7.6	89	--	--
29	1211	16	800	281	7.2	23.3	--	7.6	89	--	--
29	1210	22	800	278	7.2	23.3	--	7.7	91	--	--
29	1223	3.3	500	283	7.2	23.3	--	7.6	90	1.1	0.2
29	1223	6.9	500	283	7.2	23.3	--	7.6	90	--	--
29	1222	9.2	500	283	7.2	23.3	--	7.6	90	1.2	.2
29	1221	17	500	283	7.2	23.3	--	7.6	89	--	--
29	1220	21	500	283	7.3	23.3	--	7.5	89	--	--
August											
12	1500	3.3	300	248	7.1	23.8	--	7.8	92	--	--
12	1500	5.6	300	248	7.1	23.8	--	7.8	92	--	--
12	1459	9.8	300	249	7.1	23.8	--	7.8	92	--	--
12	1458	17	300	249	7.1	23.8	--	7.8	92	--	--
12	1458	23	300	250	7.1	23.8	--	7.8	93	--	--
12	1452	3.3	500	247	7.1	23.8	2.5	7.8	92	.4	.1
12	1451	6.6	500	247	7.1	23.8	--	7.8	92	--	--
12	1450	10	500	248	7.1	23.8	--	7.8	92	1.0	.1
12	1449	17	500	248	7.1	23.8	--	7.8	92	.7	.1
12	1449	23	500	248	7.1	23.8	--	7.8	93	--	--
12	1441	3.0	800	247	7.1	23.9	--	7.8	93	--	--
12	1441	6.6	800	247	7.1	23.9	--	7.8	93	--	--
12	1442	9.2	800	247	7.1	23.9	--	7.8	93	--	--
12	1443	17	800	247	7.1	23.9	--	7.8	93	--	--
12	1443	19	800	247	7.1	23.9	--	7.8	93	--	--
12	1448	23	800	248	7.1	23.8	--	7.8	92	--	--
12	1437	3.6	1,000	248	7.1	23.9	--	7.8	92	--	--
12	1436	7.2	1,000	247	7.1	23.9	--	7.8	92	--	--
12	1435	9.8	1,000	249	7.1	23.9	--	7.8	92	--	--
12	1434	13	1,000	248	7.1	23.9	--	7.8	92	--	--

Table 3.--Water-quality data for station 392121081193401, Ohio River at river mile 162.1, June to October 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (μS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (μg/L)	Chlorophyll <i>b</i> (μg/L)
September											
14	2350	3.6	1,000	344	7.2	24.2	--	7.4	89	--	--
14	2351	7.2	1,000	344	7.2	24.2	--	7.3	88	--	--
14	2352	10	1,000	344	7.2	24.2	--	7.3	88	--	--
14	2351	12	1,000	344	7.2	24.2	--	7.3	88	--	--
14	2352	14	1,000	344	7.2	24.2	--	7.3	88	--	--
15	0002	3.9	800	346	7.2	24.3	--	7.2	87	--	--
15	0001	7.2	800	344	7.2	24.3	--	7.2	87	--	--
15	0000	10	800	344	7.2	24.3	--	7.2	87	--	--
14	2359	17	800	345	7.2	24.3	--	7.2	86	--	--
14	2358	18	800	346	7.2	24.3	--	7.2	87	--	--
15	0005	3.6	500	343	7.2	24.3	--	7.2	87	--	--
15	0006	7.2	500	345	7.2	24.3	--	7.2	87	--	--
15	0006	9.8	500	348	7.2	24.3	--	7.2	87	--	--
15	0007	16	500	346	7.2	24.3	--	7.2	87	--	--
15	0008	22	500	345	7.2	24.3	--	7.2	87	--	--
15	0011	3.6	300	346	7.2	24.3	--	7.2	87	--	--
15	0011	6.6	300	346	7.2	24.3	--	7.2	87	--	--
15	0012	10	300	345	7.2	24.3	--	7.2	87	--	--
15	0012	17	300	347	7.2	24.3	--	7.2	87	--	--
15	0012	24	300	346	7.2	24.3	--	7.2	87	--	--
17	1702	3.9	800	361	7.2	24.7	--	7.1	86	--	--
17	1701	5.9	800	359	7.2	24.7	--	7.1	86	--	--
17	1701	9.5	800	363	7.2	24.7	--	7.1	86	--	--
17	1700	17	800	362	7.2	24.7	--	7.0	86	--	--
17	1659	18	800	359	7.2	24.7	--	7.1	86	--	--
17	1708	3.9	500	361	7.2	24.7	--	7.0	85	1.0	0.1
17	1708	6.6	500	361	7.2	24.7	--	7.0	85	--	--
17	1707	9.8	500	362	7.2	24.7	--	7.0	85	1.1	.1
17	1707	17	500	361	7.2	24.7	--	7.0	85	1.1	.1
17	1706	19	500	363	7.2	24.7	--	7.0	85	--	--
17	1715	3.3	300	362	7.2	24.7	--	7.0	85	--	--
17	1714	6.6	300	361	7.2	24.7	--	7.0	85	--	--
17	1714	9.5	300	362	7.2	24.7	--	7.0	85	--	--
17	1713	16	300	362	7.2	24.7	--	7.0	85	--	--
17	1712	23	300	363	7.2	24.7	--	7.0	85	--	--

Table 3.--Water-quality data for station 392121081193401, Ohio River at river mile 162.1, June to October 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (µg/L)	Chlorophyll <i>b</i> (µg/L)
September											
20	1457	3.6	1,000	358	7.2	23.9	--	6.8	81	--	--
20	1456	7.2	1,000	359	7.2	23.9	--	6.8	82	--	--
20	1456	9.8	1,000	359	7.2	23.9	--	6.8	81	--	--
20	1455	13	1,000	359	7.2	23.9	--	6.8	81	--	--
20	1501	3.6	800	359	7.2	23.9	--	6.7	81	--	--
20	1501	6.6	800	358	7.2	23.9	--	6.7	81	--	--
20	1502	9.5	800	358	7.2	23.9	--	6.8	81	--	--
20	1503	16	800	358	7.2	23.9	--	6.7	81	--	--
20	1510	3.6	500	360	7.2	23.9	3.5	6.7	81	1.0	0.1
20	1509	6.6	500	360	7.2	23.9	--	6.7	81	--	--
20	1508	9.8	500	360	7.2	23.9	--	6.7	81	.8	.1
20	1508	16	500	360	7.2	23.9	--	6.7	81	1.3	.1
20	1507	21	500	360	7.2	23.9	--	6.7	83	--	--
20	1520	3.3	300	359	7.2	23.9	--	6.7	81	--	--
20	1519	6.2	300	359	7.2	23.9	--	6.7	81	--	--
20	1518	9.2	300	359	7.2	23.9	--	6.7	81	--	--
20	1517	16	300	359	7.2	23.9	--	6.7	80	--	--
20	1516	21	300	359	7.2	23.9	--	6.7	81	--	--
October											
22	1435	3.3	300	320	7.4	15.5	--	9.0	91	--	--
22	1436	6.6	300	320	7.4	15.5	--	9.0	91	--	--
22	1437	9.9	300	320	7.4	15.5	--	9.0	91	--	--
22	1438	16	300	320	7.4	15.5	--	9.0	91	--	--
22	1439	23	300	319	7.4	15.5	--	9.0	91	--	--
22	1446	3.3	500	318	7.4	15.5	--	9.0	91	--	--
22	1447	6.6	500	318	7.4	15.5	--	9.0	91	--	--
22	1448	9.9	500	318	7.4	15.5	--	9.0	91	--	--
22	1449	12	500	318	7.5	15.5	--	9.0	91	--	--
22	1453	3.3	800	319	7.4	15.5	--	9.0	89	--	--
22	1454	6.6	800	319	7.4	15.5	--	9.0	91	--	--
22	1455	9.9	800	319	7.4	15.5	--	9.0	91	--	--
22	1456	16	800	319	7.4	15.5	--	9.0	91	--	--
22	1457	22	800	319	7.4	15.5	--	9.0	91	--	--

Table 3.--Water-quality data for station 392121081193401, Ohio River at river mile 162.1, June to October 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (μ S/cm)	pH (standard units)	Temperature, water ($^{\circ}$ C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (μ g/L)	Chlorophyll <i>b</i> (μ g/L)
October											
22	1514	3.3	1,000	313	7.3	15.5	--	8.9	89	--	--
22	1515	6.6	1,000	313	7.4	15.5	--	8.9	90	--	--
22	1516	9.9	1,000	313	7.3	15.5	--	8.9	90	--	--
22	1517	14	1,000	313	7.4	15.5	--	8.8	90	--	--

Table 4.--Water-quality data for station 392055081202001, Ohio River at river mile 163.0, June to October 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1435	3.0	600	377	7.1	21.8	--	7.5	87	--	--
6	1437	9.8	600	377	7.1	21.8	--	7.4	87	--	--
6	1437	16	600	377	7.1	21.7	--	7.4	86	--	--
22	1622	3.6	600	450	6.9	24.1	--	5.5	66	--	--
22	1622	8.5	600	450	6.9	23.7	--	5.3	64	--	--
22	1623	16	600	449	6.9	23.7	--	5.1	61	--	--
July											
29	1234	4.3	600	280	7.2	23.2	--	7.5	89	--	--
29	1233	11	600	280	7.2	23.2	--	7.5	89	--	--
29	1232	24	600	280	7.2	23.2	--	7.6	89	--	--
August											
12	1619	3.3	600	246	7.1	23.9	--	7.8	93	--	--
12	1620	8.5	600	247	7.1	23.9	--	7.7	91	--	--
12	1619	18	600	247	7.1	23.9	--	7.7	92	--	--
September											
15	0029	3.3	600	345	7.2	24.2	--	7.2	87	--	--
15	0030	7.5	600	345	7.2	24.2	--	7.2	87	--	--
15	0031	16	600	345	7.2	24.2	--	7.2	87	--	--
17	1725	3.3	600	361	7.2	24.7	--	7.8	95	--	--
17	1725	8.9	600	361	7.2	24.7	--	7.0	85	--	--
17	1723	17	600	361	7.2	24.7	--	7.0	85	--	--
20	1527	3.6	600	359	7.2	24.0	--	6.9	84	--	--
20	1528	8.9	600	359	7.2	23.9	--	6.7	80	--	--
20	1528	17	600	359	7.2	24.0	--	6.7	80	--	--
October											
22	1555	3.3	600	318	7.4	15.6	--	9.0	91	--	--
22	1556	8.2	600	318	7.4	15.6	--	9.0	91	--	--
22	1557	16	600	318	7.4	15.5	--	9.0	91	--	--

Table 5.--Water-quality data for station 392025081220701, Ohio River at river mile 164.7, June to October 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
06	1453	2.6	800	376	7.1	21.9	--	7.3	86	--	--
06	1455	6.2	800	376	7.0	21.8	--	7.3	85	--	--
06	1456	12	800	376	7.0	21.8	--	7.3	85	--	--
22	1634	3.6	800	448	6.9	24.0	--	6.3	75	--	--
22	1634	6.9	800	451	6.9	23.7	--	5.8	69	--	--
22	1635	12	800	451	6.9	23.7	--	5.6	68	--	--
July											
29	1240	3.6	800	282	7.2	23.3	--	7.5	89	--	--
29	1240	9.5	800	282	7.2	23.3	--	7.5	89	--	--
29	1239	20	800	282	7.2	23.3	--	7.8	92	--	--
August											
12	1633	3.3	800	247	7.1	24.0	--	7.7	92	--	--
12	1634	6.6	800	247	7.1	24.0	--	7.7	91	--	--
12	1633	13	800	247	7.1	24.0	--	7.7	92	--	--
September											
15	0021	3.3	800	344	7.2	24.2	--	7.2	87	--	--
15	0030	7.5	800	345	7.2	24.3	--	7.1	86	--	--
15	0020	14	800	345	7.2	24.3	--	7.1	87	--	--
17	1738	3.0	800	360	7.2	24.7	--	6.9	84	--	--
17	1739	6.2	800	360	7.2	24.7	--	6.9	84	--	--
17	1739	13	800	360	7.2	24.7	--	6.9	84	--	--
20	1535	3.6	800	359	7.2	24.0	--	6.6	80	--	--
20	1536	6.6	800	359	7.2	24.0	--	6.6	80	--	--
20	1535	13	800	359	7.2	24.0	--	6.6	80	--	--
October											
22	1602	3.3	800	319	7.4	15.6	--	8.9	91	--	--
22	1603	7.2	800	319	7.4	15.6	--	8.9	90	--	--
22	1604	14	800	319	7.4	15.6	--	8.9	90	--	--

Table 6.--Water-quality data for station 392110081234201, Ohio River at river mile 166.5, June to October 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1504	2.6	800	375	7.1	21.8	--	7.1	83	--	--
6	1505	9.5	800	375	7.0	21.8	--	7.2	83	--	--
6	1506	18	800	375	7.0	21.7	--	7.1	83	--	--
22	1642	3.6	800	452	7.0	24.3	--	5.9	71	--	--
22	1642	10	800	451	6.9	23.4	--	5.6	66	--	--
22	1643	20	800	451	6.9	23.3	--	5.4	65	--	--
July											
29	1249	3.6	800	283	7.2	23.4	--	7.4	88	--	--
29	1247	11	800	282	7.2	23.3	--	7.4	88	--	--
29	1246	23	800	283	7.2	23.3	--	7.5	88	--	--
August											
12	1639	3.3	800	248	7.1	24.0	--	7.7	91	--	--
12	1641	9.5	800	247	7.1	24.0	--	7.7	91	--	--
12	1640	19	800	247	7.1	24.0	--	7.7	91	--	--
September											
15	0036	3.9	800	344	7.2	24.2	--	7.1	85	--	--
15	0038	10	800	344	7.2	24.2	--	7.1	85	--	--
15	0037	21	800	344	7.2	24.3	--	7.1	85	--	--
17	1749	3.3	800	360	7.3	24.9	--	6.9	84	--	--
17	1750	8.5	800	360	7.2	24.9	--	6.9	84	--	--
17	1749	18	800	359	7.2	24.9	--	6.8	83	--	--
20	1542	3.3	800	359	7.2	24.1	--	6.6	79	--	--
20	1543	9.5	800	359	7.2	24.0	--	6.6	79	--	--
20	1543	19	800	362	7.2	24.0	--	6.6	79	--	--
October											
22	1629	3.3	800	320	7.4	15.6	--	8.9	90	--	--
22	1630	12	800	320	7.4	15.6	--	8.9	90	--	--
22	1631	21	800	320	7.4	15.6	--	8.9	90	--	--
23	1023	3.3	800	324	7.4	15.1	--	9.1	90	--	--
23	1024	8.9	800	323	7.4	15.1	--	9.0	91	--	--
23	1025	18	800	324	7.4	15.1	--	9.0	90	--	--

Table 7.--Water-quality data for station 392318081243001, Ohio River at river mile 169.1, main channel, June to October 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1532	3.3	1,700	372	7.1	21.9	--	7.0	82	--	--
6	1533	6.2	1,700	372	7.0	21.7	--	6.9	81	--	--
6	1534	9.5	1,700	374	7.0	21.7	--	6.9	81	--	--
22	1656	3.9	1,700	453	6.9	23.5	--	6.3	76	--	--
22	1656	6.9	1,700	453	6.9	23.4	--	6.2	74	--	--
22	1657	9.2	1,700	453	6.9	23.4	--	6.2	74	--	--
July											
29	1302	3.6	1,700	284	7.2	23.5	--	7.3	87	--	--
29	1301	8.5	1,700	286	7.2	23.5	--	7.3	87	--	--
29	1300	16	1,700	284	7.2	23.4	--	7.4	87	--	--
August											
12	1657	3.3	1,700	249	7.2	24.2	--	7.7	92	--	--
12	1659	8.2	1,700	250	7.1	24.1	--	7.6	90	--	--
12	1658	16	1,700	251	7.1	24.1	--	7.6	90	--	--
September											
15	0103	3.6	1,700	343	7.2	24.3	--	7.1	86	--	--
15	0105	7.5	1,700	343	7.2	24.3	--	7.0	85	--	--
15	0104	17	1,700	344	7.2	24.3	--	7.0	85	--	--
15	1300	3.6	1,700	352	7.2	24.2	--	6.7	80	--	--
15	1301	5.2	1,700	352	7.2	24.2	--	6.6	80	--	--
15	1301	10	1,700	352	7.2	24.1	--	6.6	80	--	--
17	1812	3.0	1,700	359	7.2	24.9	--	6.8	83	--	--
17	1811	11	1,700	359	7.2	24.9	--	6.8	83	--	--
17	1810	22	1,700	360	7.2	24.9	--	6.8	83	--	--
20	1554	3.3	1,700	359	7.2	24.0	--	6.5	81	--	--
20	1555	8.5	1,700	359	7.2	24.0	--	6.5	78	--	--
20	1555	17	1,700	357	7.2	24.0	--	6.5	78	--	--
October											
23	1043	3.3	1,700	326	7.3	15.0	--	9.0	91	--	--
23	1044	9.9	1,700	327	7.4	15.1	--	9.0	90	--	--

Table 8.—Water-quality data for station 392313081244601, Ohio River at river mile 169.1, back channel, June to October 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1517	3.3	400	373	7.1	22.0	--	7.1	83	--	--
6	1519	7.9	400	373	7.0	21.9	--	7.0	82	--	--
6	1519	15	400	372	7.0	21.9	--	7.0	82	--	--
22	1652	3.6	400	453	6.9	24.3	--	6.2	76	--	--
22	1652	8.5	400	452	6.9	23.6	--	6.1	73	--	--
22	1653	17	400	453	6.9	23.5	--	6.1	73	--	--
July											
29	1257	3.9	400	289	7.2	23.5	--	7.4	88	--	--
29	1257	12	400	286	7.3	23.5	--	7.4	88	--	--
29	1256	23	400	287	7.3	23.5	--	7.5	89	--	--
August											
12	1652	4.3	400	249	7.1	24.1	--	7.7	92	--	--
12	1654	8.5	400	249	7.1	24.1	--	7.6	91	--	--
12	1653	16	400	250	7.1	24.1	--	7.7	91	--	--
September											
15	0056	3.6	400	342	7.2	24.3	--	7.2	87	--	--
15	0058	8.5	400	343	7.2	24.3	--	7.1	85	--	--
15	0057	18	400	343	7.2	24.3	--	7.1	85	--	--
15	1254	3.3	400	351	7.2	24.2	--	6.8	82	--	--
15	1256	9.2	400	351	7.2	24.2	--	6.7	81	--	--
15	1255	18	400	351	7.2	24.2	--	6.7	81	--	--
17	1829	3.0	400	359	7.2	24.9	--	6.9	84	--	--
17	1828	7.5	400	359	7.2	24.9	--	6.9	84	--	--
17	1826	16	400	359	7.2	24.9	--	6.9	84	--	--
20	1551	3.6	400	359	7.2	24.1	--	6.7	80	--	--
20	1552	8.2	400	358	7.2	24.1	--	6.6	80	--	--
20	1551	16	400	360	7.2	24.1	--	6.6	80	--	--
October											
23	939	3.3	400	323	7.4	15.1	--	9.1	90	--	--
23	940	8.6	400	325	7.4	15.1	--	9.1	91	--	--
23	941	16	400	325	7.4	15.1	--	9.1	91	--	--

Table 9.--Water-quality data for station 392419081255001, Ohio River at river mile 170.8, main channel, June to October 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1560	3.3	1,500	370	7.2	22.2	--	6.9	81	--	--
6	1600	9.8	1,500	370	7.1	21.9	--	6.9	80	--	--
6	1601	16	1,500	371	7.0	21.8	--	6.8	80	--	--
22	1701	3.6	1,500	453	6.9	23.9	--	6.6	79	--	--
22	1702	6.9	1,500	453	6.9	23.6	--	6.5	78	--	--
22	1703	13	1,500	453	6.9	23.5	--	6.4	76	--	--
July											
29	1329	3.3	1,500	288	7.2	23.5	--	7.4	88	--	--
29	1328	9.8	1,500	288	7.3	23.5	--	7.4	88	--	--
29	1328	20	1,500	288	7.3	23.5	--	7.5	89	--	--
August											
12	1703	3.3	1,500	250	7.1	24.1	--	7.6	91	--	--
12	1705	7.5	1,500	250	7.1	24.1	--	7.6	90	--	--
12	1705	13	1,500	249	7.1	24.1	--	7.6	91	--	--
September											
15	1307	4.3	1,500	352	7.2	24.2	--	6.7	80	--	--
15	1308	8.9	1,500	352	7.2	24.2	--	6.7	80	--	--
15	1307	16	1,500	352	7.2	24.1	--	6.7	80	--	--
17	1917	3.3	1,500	360	7.2	24.9	--	6.8	83	--	--
17	1918	6.9	1,500	359	7.2	24.9	--	6.8	83	--	--
17	1918	14	1,500	359	7.2	24.9	--	6.8	83	--	--
20	1600	3.3	1,500	359	7.2	24.1	--	7.6	92	--	--
20	1602	7.9	1,500	359	7.2	24.1	--	6.5	79	--	--
20	1601	16	1,500	359	7.2	24.1	--	6.5	79	--	--
October											
23	1048	3.3	1,500	326	7.4	15.1	--	9.1	90	--	--
23	1049	7.6	1,500	326	7.4	15.1	--	9.1	91	--	--
23	1050	15	1,500	326	7.4	15.1	--	9.0	91	--	--

Table 10.--Water-quality data for station 392411081255901, Ohio River at river mile 170.8, back channel, June to October 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1546	3.3	400	371	7.1	22.0	--	7.0	82	--	--
6	1547	6.6	400	370	7.0	21.8	--	7.0	82	--	--
6	1548	13	400	370	7.0	21.7	--	7.0	81	--	--
22	1710	3.9	400	457	7.0	23.7	--	6.7	81	--	--
22	1710	7.2	400	455	7.0	23.7	--	6.7	80	--	--
22	1711	13	400	455	6.9	23.6	--	6.7	80	--	--
July											
29	1329	3.3	400	288	7.2	23.5	--	7.4	88	--	--
29	1328	9.8	400	288	7.3	23.5	--	7.4	88	--	--
29	1328	20	400	288	7.3	23.5	--	7.5	89	--	--
August											
12	1711	3.3	400	249	7.1	24.1	--	7.7	92	--	--
12	1712	7.9	400	249	7.1	24.1	--	7.7	91	--	--
12	1712	15	400	249	7.1	24.1	--	7.7	91	--	--
September											
15	1246	3.6	400	351	7.2	24.2	--	6.8	81	--	--
15	1248	8.2	400	351	7.2	24.1	--	6.8	81	--	--
15	1247	16	400	351	7.2	24.1	--	6.8	81	--	--
17	1927	3.3	400	359	7.3	24.9	--	6.9	84	--	--
17	1928	7.5	400	359	7.2	24.9	--	6.9	84	--	--
17	1927	15	400	359	7.2	24.9	--	6.9	84	--	--
20	1608	3.3	400	358	7.2	24.1	--	6.8	82	--	--
20	1609	7.5	400	358	7.2	24.1	--	6.6	80	--	--
20	1609	15	400	358	7.2	24.1	--	6.6	80	--	--
October											
23	927	3.3	400	326	7.3	15.1	--	9.1	90	--	--
23	928	7.2	400	326	7.3	15.1	--	9.0	91	--	--
23	929	15	400	326	7.3	15.1	--	9.0	90	--	--

Table 11.--Water-quality data for station 392232081295601, Ohio River at river mile 175.5, main channel, June to October 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1627	3.6	1,700	439	7.4	22.2	--	7.6	89	--	--
6	1628	9.8	1,700	446	7.3	21.7	--	7.0	82	--	--
6	1628	20	1,700	446	7.3	21.6	--	6.9	80	--	--
22	1736	3.6	1,700	514	7.2	23.9	--	6.9	83	--	--
22	1736	10	1,700	510	7.2	23.6	--	6.6	79	--	--
22	1737	20	1,700	510	7.1	23.5	--	6.3	76	--	--
July											
29	1527	3.3	1,700	287	7.2	23.7	--	7.2	86	--	--
29	1526	12	1,700	287	7.2	23.7	--	7.2	86	--	--
29	1525	26	1,700	287	7.2	23.7	--	7.2	86	--	--
August											
12	1737	3.6	1,700	251	7.1	24.2	--	7.6	90	--	--
12	1738	9.2	1,700	251	7.1	24.2	--	7.5	90	--	--
12	1738	18	1,700	251	7.1	24.2	--	7.5	90	--	--
September											
15	1337	3.6	1,700	389	7.4	24.1	--	6.8	82	--	--
15	1338	10	1,700	389	7.3	24.0	--	6.8	81	--	--
15	1338	20	1,700	387	7.3	24.0	--	6.8	81	--	--
17	1958	3.0	1,700	412	7.4	24.6	--	7.0	85	--	--
17	1959	9.8	1,700	412	7.4	24.7	--	7.0	85	--	--
17	1959	19	1,700	411	7.4	24.7	--	7.0	84	--	--
20	1639	3.6	1,700	402	7.3	23.8	--	6.7	83	--	--
20	1640	8.5	1,700	403	7.3	23.8	--	6.7	80	--	--
20	1639	19	1,700	403	7.3	23.8	--	6.6	80	--	--
October											
23	1216	3.3	1,700	389	7.5	14.9	--	9.1	90	--	--
23	1217	8.2	1,700	388	7.5	14.9	--	9.1	90	--	--
23	1218	16	1,700	390	7.5	14.9	--	9.1	90	--	--

Table 12.--Water-quality data for station 392227081293701, Ohio River at river mile 175.5, back channel, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1622	3.3	500	423	7.3	22.3	--	7.6	90	--	--
6	1623	9.8	500	431	7.3	21.7	--	7.1	83	--	--
6	1624	19	500	430	7.2	21.6	--	6.9	81	--	--
22	1731	3.6	500	528	7.2	23.9	--	6.8	81	--	--
22	1732	10	500	520	7.2	23.7	--	6.5	78	--	--
22	1733	20	500	520	7.2	23.6	--	6.4	77	--	--
July											
29	1515	3.6	500	316	7.3	23.5	--	7.5	88	--	--
29	1513	12	500	318	7.3	23.5	--	7.5	89	--	--
29	1512	23	500	318	7.3	23.5	--	7.5	89	--	--
August											
12	1733	3.6	500	327	7.4	24.5	--	7.7	93	--	--
12	1734	9.8	500	332	7.5	24.6	--	7.7	93	--	--
12	1733	20	500	335	7.5	24.6	--	7.7	93	--	--
September											
15	1332	3.9	500	385	7.4	24.1	--	6.9	83	--	--
15	1333	10	500	385	7.4	24.1	--	6.9	82	--	--
15	1333	19	500	384	7.3	24.1	--	6.9	82	--	--
17	1948	3.0	500	389	7.4	24.7	--	7.0	85	--	--
17	1949	8.9	500	393	7.4	24.7	--	6.9	84	--	--
17	1949	17	500	391	7.4	24.7	--	6.9	84	--	--
20	1634	3.6	500	385	7.3	23.9	--	6.7	81	--	--
20	1635	9.8	500	389	7.3	23.9	--	6.7	80	--	--
20	1635	20	500	388	7.3	23.9	--	6.6	80	--	--

Table 13.--Water-quality data for station 392139081312801, Ohio River at river mile 177.2, main channel, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1633	3.3	1,200	438	7.4	22.2	--	7.4	87	--	--
6	1634	10	1,200	434	7.3	21.6	--	7.0	82	--	--
6	1635	20	1,200	430	7.2	21.5	--	6.8	79	--	--
22	1744	3.6	1,200	507	7.3	24.5	--	7.2	87	--	--
22	1745	12	1,200	507	7.2	23.9	--	6.7	80	--	--
22	1746	23	1,200	508	7.1	23.5	--	6.3	75	--	--
July											
29	1534	3.0	1,200	287	7.2	23.7	--	7.2	86	--	--
29	1533	7.2	1,200	287	7.2	23.7	--	7.2	85	--	--
29	1532	14	1,200	287	7.2	23.7	--	7.1	85	--	--
August											
12	1748	3.3	1,200	251	7.1	24.2	--	7.5	90	--	--
12	1750	11	1,200	250	7.1	24.2	--	7.5	90	--	--
12	1749	23	1,200	253	7.1	24.2	--	7.5	90	--	--
September											
15	1344	3.6	1,200	390	7.3	24.2	--	6.8	81	--	--
15	1345	11	1,200	397	7.4	24.1	--	6.7	80	--	--
15	1344	23	1,200	400	7.4	24.1	--	6.7	80	--	--
17	2004	3.0	1,200	410	7.5	24.6	--	7.1	86	--	--
17	2006	8.5	1,200	411	7.4	24.6	--	7.0	85	--	--
17	2005	17	1,200	409	7.4	24.6	--	7.0	85	--	--
20	1646	3.3	1,200	398	7.3	23.9	--	6.7	81	--	--
20	1647	9.2	1,200	400	7.3	23.8	--	6.6	80	--	--
20	1646	19	1,200	400	7.3	23.8	--	6.6	79	--	--

Table 14. --Water-quality data for station 392131081312301, Ohio River at river mile 177.2, back channel, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1637	3.3	500	429	7.3	22.5	--	7.5	89	--	--
6	1638	9.8	500	425	7.3	21.7	--	7.0	82	--	--
6	1638	19	500	427	7.2	21.6	--	6.8	79	--	--
22	1748	3.6	500	516	7.2	24.7	--	6.7	82	--	--
22	1748	10	500	514	7.2	24.2	--	6.7	82	--	--
22	1749	19	500	511	7.1	23.6	--	6.2	75	--	--
July											
29	1539	3.3	500	321	7.3	23.5	--	7.5	89	--	--
29	1538	9.5	500	319	7.4	23.5	--	7.5	89	--	--
29	1537	19	500	319	7.4	23.5	--	7.5	89	--	--
August											
12	1752	3.6	500	292	7.3	24.4	--	7.6	91	--	--
12	1754	7.9	500	301	7.4	24.4	--	7.6	91	--	--
12	1753	18	500	301	7.3	24.4	--	7.6	91	--	--
September											
15	1352	3.6	500	373	7.3	25.1	--	6.8	82	--	--
15	1353	7.9	500	376	7.3	24.3	--	6.7	81	--	--
15	1353	19	500	378	7.3	24.2	--	6.7	81	--	--
17	2010	3.3	500	403	7.4	25.0	--	6.9	84	--	--
17	2011	9.2	500	405	7.4	24.6	--	6.9	83	--	--
17	2012	19	500	409	7.4	24.5	--	6.9	84	--	--
20	1650	3.3	500	388	7.3	24.5	--	6.7	81	--	--
20	1651	9.2	500	394	7.3	23.9	--	6.6	80	--	--
20	1650	19	500	396	7.3	23.9	--	6.6	79	--	--

Table 15.--Water-quality data for station 392042081330101, Ohio River at river mile 179.0, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1644	3.6	800	432	7.3	22.5	--	7.1	84	--	--
6	1644	10	800	430	7.3	22.0	--	7.0	82	--	--
6	1645	20	800	429	7.2	21.6	--	6.7	78	--	--
22	1756	3.3	800	505	7.2	24.1	--	6.6	80	--	--
22	1756	9.8	800	498	7.2	23.7	--	6.4	77	--	--
22	1757	16	800	497	7.1	23.5	--	6.2	75	--	--
July											
29	1547	2.6	800	299	7.3	23.7	--	7.3	86	--	--
29	1547	9.8	800	300	7.3	23.6	--	7.3	87	--	--
29	1546	19	800	300	7.3	23.6	--	7.3	87	--	--
August											
12	1801	3.3	800	263	7.2	24.2	--	7.5	92	--	--
12	1802	9.2	800	261	7.2	24.2	--	7.5	90	--	--
12	1801	17	800	263	7.2	24.2	--	7.6	90	--	--
13	956	3.6	800	250	7.2	23.6	--	7.4	88	--	--
13	958	7.2	800	251	7.1	23.7	--	7.4	88	--	--
13	957	16	800	251	7.1	23.7	--	7.4	88	--	--
September											
15	1400	3.9	800	389	7.3	24.4	--	6.7	81	--	--
15	1402	10	800	390	7.3	24.2	--	6.7	80	--	--
15	1403	19	800	389	7.3	24.1	--	6.6	79	--	--
17	2018	3.3	800	401	7.4	24.8	--	6.8	83	--	--
17	2020	12	800	403	7.4	24.8	--	6.7	82	--	--
17	2019	25	800	407	7.4	24.8	--	6.7	81	--	--
20	1656	3.3	800	394	7.3	24.0	--	6.6	79	--	--
20	1657	25	800	393	7.2	23.8	--	6.5	78	--	--
20	1657	12	800	393	7.3	23.9	--	6.5	78	--	--

Table 16.--Water-quality data for station 391822081334701, Ohio River at river mile 181.8, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1654	3.3	500	427	7.2	22.3	--	7.1	83	--	--
6	1654	11	500	426	7.2	21.6	--	6.6	77	--	--
6	1655	22	500	426	7.1	21.5	--	6.5	75	--	--
22	1806	3.6	500	502	7.2	24.3	--	6.6	80	--	--
22	1806	12	500	502	7.1	23.8	--	6.2	74	--	--
22	1807	22	500	501	7.1	23.7	--	6.0	72	--	--
July											
29	1558	3.3	500	319	7.4	23.6	--	7.4	88	--	--
29	1558	11	500	317	7.4	23.6	--	7.4	88	--	--
29	1557	23	500	320	7.4	23.5	--	7.4	88	--	--
August											
13	1006	3.3	500	286	7.2	23.8	--	7.3	87	--	--
13	1011	11	500	286	7.2	23.8	--	7.4	88	--	--
13	1010	23	500	295	7.2	23.9	--	7.5	101	--	--
September											
15	1413	3.6	500	385	7.3	24.4	--	6.7	81	--	--
15	1414	12	500	385	7.3	24.4	--	6.6	80	--	--
15	1414	26	500	385	7.3	24.3	--	6.6	79	--	--
17	2029	3.9	500	406	7.4	24.9	--	6.7	82	--	--
17	2031	11	500	409	7.3	24.9	--	6.7	81	--	--
17	2030	22	500	407	7.4	24.9	--	6.6	81	--	--
18	1144	3.0	500	390	7.3	24.6	--	6.8	82	--	--
18	1146	11	500	390	7.3	24.6	--	6.7	82	--	--
18	1145	22	500	390	7.3	24.6	--	6.7	82	--	--
20	1706	3.3	500	399	7.3	24.2	--	6.6	80	--	--
20	1707	11	500	398	7.2	24.0	--	6.3	76	--	--
20	1706	23	500	396	7.2	24.0	--	6.3	76	--	--

Table 17.--Water-quality data for station 391720081334701, Ohio River at river mile 183.0, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1701	3.3	300	437	7.2	22.5	--	6.7	80	--	--
6	1702	6.6	300	439	7.1	21.4	--	6.4	74	--	--
6	1702	10	300	436	7.1	21.4	--	6.4	74	--	--
6	1703	16	300	438	7.1	21.3	--	6.3	73	--	--
6	1703	19	300	440	7.1	21.3	--	6.3	73	--	--
6	1705	0.5	700	--	--	--	--	--	--	0.4	0.1
6	1706	3.3	700	433	7.2	22.6	4.5	7.0	82	.8	.1
6	1707	6.6	700	436	7.1	21.9	--	6.6	77	--	--
6	1708	10	700	434	7.1	21.5	--	6.5	76	--	--
6	1709	17	700	432	7.1	21.4	--	6.4	74	--	--
6	1710	23	700	431	7.1	21.4	--	6.3	73	.9	.1
6	1710	28	700	431	7.0	21.4	--	6.3	72	--	--
6	1720	3.3	1,000	433	7.2	22.5	--	6.9	81	--	--
6	1721	6.6	1,000	433	7.1	22.3	--	6.8	80	--	--
6	1722	6.6	1,000	435	7.1	22.1	--	6.7	79	--	--
6	1722	9.8	1,000	431	7.1	21.6	--	6.5	75	--	--
6	1723	16	1,000	433	7.1	21.4	--	6.3	73	--	--
6	1723	23	1,000	428	7.1	21.4	--	6.3	73	--	--
6	1724	24	1,000	430	7.0	21.4	--	6.3	73	--	--
22	1813	4.3	300	498	7.2	24.6	--	6.7	81	--	--
22	1814	6.6	300	495	7.2	24.5	--	6.3	77	--	--
22	1815	9.8	300	496	7.1	24.3	--	6.2	76	--	--
22	1817	16	300	495	7.1	23.7	--	6.1	73	--	--
22	1820	3.3	700	496	7.2	24.3	5.0	6.4	78	1.0	.1
22	1821	6.9	700	496	7.1	24.1	--	6.3	76	--	--
22	1822	10	700	495	7.1	24.0	--	6.2	74	1.0	.1
22	1824	17	700	495	7.1	23.9	--	6.1	73	--	--
22	1826	24	700	493	7.1	23.6	--	6.0	72	1.0	.1
22	1827	26	700	494	7.1	23.6	--	6.0	72	--	--
22	1832	3.6	1,000	496	7.2	24.4	--	6.5	79	--	--
22	1833	6.6	1,000	495	7.1	24.1	--	6.2	75	--	--
22	1833	9.8	1,000	495	7.1	23.9	--	6.1	73	--	--
22	1834	16	1,000	494	7.1	23.9	--	6.0	72	--	--
22	1836	22	1,000	495	7.1	23.8	--	5.9	71	--	--

Table 17.---*Water-quality data for station 391720081334701, Ohio River at river mile 183.C, June to September 1992--Continued*

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (μS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (μg/L)	Chlorophyll <i>b</i> (μg/L)
July											
29	1643	3.3	300	343	7.4	23.6	--	7.6	90	--	--
29	1642	6.2	300	342	7.4	23.5	--	7.6	90	--	--
29	1641	9.5	300	342	7.4	23.5	--	7.6	90	--	--
29	1640	16	300	343	7.4	23.5	--	7.6	90	--	--
29	1639	23	300	343	7.4	23.5	--	7.6	90	--	--
29	1638	25	300	342	7.4	23.5	--	7.6	90	--	--
29	1629	3.3	700	310	7.3	23.6	--	7.4	88	--	--
29	1628	6.9	700	311	7.3	23.6	--	7.4	87	--	--
29	1626	9.8	700	310	7.3	23.6	--	7.4	87	--	--
29	1624	18	700	311	7.4	23.6	--	7.4	87	--	--
29	1623	22	700	313	7.4	23.6	--	7.4	88	--	--
29	1623	30	700	313	7.4	23.6	--	7.4	87	--	--
29	1616	3.6	1,000	289	7.3	23.7	--	7.1	85	--	--
29	1615	6.2	1,000	290	7.3	23.8	--	7.1	85	--	--
29	1615	9.2	1,000	288	7.3	23.7	--	7.1	85	--	--
29	1614	16	1,000	291	7.3	23.7	--	7.1	85	--	--
29	1613	23	1,000	291	7.3	23.7	--	7.1	85	--	--
29	1612	25	1,000	293	7.3	23.7	--	7.1	85	--	--
August											
13	1020	3.3	300	250	7.1	23.6	--	7.4	87	--	--
13	1020	6.6	300	250	7.0	23.6	--	7.4	87	--	--
13	1019	9.8	300	251	7.0	23.6	--	7.4	87	--	--
13	1018	16	300	251	7.1	23.6	--	7.4	87	--	--
13	1016	21	300	252	7.1	23.6	--	7.4	87	--	--
13	1027	3.3	700	284	7.2	23.8	2.0	7.4	87	0.6	0.1
13	1026	6.2	700	276	7.2	23.8	--	7.3	87	--	--
13	1026	10	700	280	7.2	23.8	--	7.4	87	.8	.1
13	1025	16	700	278	7.2	23.8	--	7.4	87	--	--
13	1024	22	700	278	7.2	23.8	--	7.3	87	.8	.1
13	1023	29	700	280	7.2	23.8	--	7.4	87	--	--
13	1038	3.3	1,000	368	7.4	24.4	--	7.1	85	--	--
13	1037	6.9	1,000	367	7.4	24.4	--	7.1	86	--	--
13	1035	9.8	1,000	362	7.4	24.3	--	7.2	86	--	--
13	1035	16	1,000	363	7.4	24.3	--	7.1	86	--	--
13	1033	20	1,000	362	7.4	24.3	--	7.1	85	--	--

Table 17.--Water-quality data for station 391720081334701, Ohio River at river mile 183.0, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (μS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (μg/L)	Chlorophyll <i>b</i> (μg/L)
September											
15	1424	2.6	300	406	7.4	24.4	--	6.7	81	--	--
15	1423	6.9	300	407	7.4	24.3	--	6.7	81	--	--
15	1422	10	300	407	7.4	24.3	--	6.7	81	--	--
15	1422	17	300	407	7.4	24.3	--	6.7	81	--	--
15	1420	23	300	407	7.4	24.2	--	6.7	80	--	--
15	1437	3.3	700	391	7.3	24.4	4.5	6.7	81	0.9	0.1
15	1436	6.6	700	392	7.3	24.4	--	6.7	80	--	--
15	1435	9.5	700	392	7.3	24.4	--	6.7	80	.9	.1
15	1434	17	700	391	7.3	24.3	--	6.7	80	1.0	.1
15	1433	24	700	392	7.3	24.3	--	6.7	80	--	--
15	1432	29	700	391	7.3	24.3	--	6.7	81	--	--
15	1430	3.3	1,000	389	7.3	24.6	--	6.6	80	--	--
15	1430	6.6	1,000	389	7.3	24.5	--	6.6	79	--	--
15	1429	10	1,000	389	7.3	24.5	--	6.6	79	--	--
15	1428	17	1,000	388	7.3	24.4	--	6.6	79	--	--
15	1427	24	1,000	387	7.3	24.4	--	6.6	80	--	--
18	1217	3.6	300	400	7.3	24.5	--	6.7	82	--	--
18	1216	7.2	300	401	7.3	24.5	--	6.7	82	--	--
18	1215	9.8	300	402	7.3	24.5	--	6.7	81	--	--
18	1214	16	300	400	7.3	24.5	--	6.7	81	--	--
18	1212	20	300	401	7.3	24.5	--	6.7	81	--	--
18	1156	3.6	700	399	7.3	24.3	4.5	6.7	82	.7	.1
18	1154	6.9	700	399	7.3	24.5	--	6.8	82	--	--
18	1153	9.8	700	399	7.3	24.5	--	6.8	83	1.0	.1
18	1155	16	700	400	7.3	24.5	--	6.7	82	.7	.1
18	1154	22	700	400	7.3	24.5	--	6.7	82	--	--
18	1204	3.3	1,000	396	7.3	24.5	--	6.6	81	--	--
18	1203	6.6	1,000	396	7.3	24.5	--	6.6	80	--	--
18	1202	9.5	1,000	396	7.3	24.5	--	6.6	80	--	--
18	1201	17	1,000	396	7.3	24.5	--	6.5	80	--	--
18	1200	21	1,000	395	7.3	24.5	--	6.6	80	--	--
20	1819	3.6	300	385	7.2	24.1	--	6.6	81	--	--
20	1819	6.2	300	387	7.2	24.1	--	6.7	81	--	--
20	1818	10	300	391	7.2	24.1	--	6.6	80	--	--
20	1818	16	300	395	7.2	24.0	--	6.6	80	--	--
20	1817	25	300	395	7.2	24.0	--	6.6	80	--	--

Table 17.--*Water-quality data for station 391720081334701, Ohio River at river mile 183.0, June to September 1992--Continued*

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
September											
20	1814	3.0	700	400	7.3	24.3	--	6.8	83	0.8	0.1
20	1813	6.2	700	401	7.2	24.2	--	6.6	80	--	--
20	1813	9.5	700	402	7.2	24.1	--	6.6	80	1.0	.1
20	1812	16	700	402	7.2	24.1	--	6.6	80	--	--
20	1812	23	700	400	7.2	24.1	--	6.6	79	1.1	.1
20	1811	29	700	402	7.2	24.1	--	6.6	79	--	--
20	1809	3.6	1,000	410	7.3	24.4	--	6.8	83	--	--
20	1808	6.9	1,000	407	7.3	24.3	--	6.7	82	--	--
20	1808	9.8	1,000	408	7.3	24.3	--	6.6	81	--	--
20	1807	16	1,000	409	7.2	24.2	--	6.5	79	--	--
20	1806	21	1,000	409	7.2	24.2	--	6.5	79	--	--

Table 18.--Water-quality data for station 391559081341201, Ohio River at river mile 184.6, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1806	3.0	300	434	7.2	22.5	--	6.8	80	--	--
6	1807	6.6	300	434	7.1	22.3	--	6.7	79	--	--
6	1808	9.8	300	431	7.1	21.7	--	6.5	76	--	--
6	1808	16	300	430	7.1	21.4	--	6.4	74	--	--
6	1809	23	300	419	7.1	21.3	--	6.4	74	--	--
6	1809	30	300	375	7.1	21.1	--	6.5	75	--	--
6	1810	35	300	179	7.1	18.4	--	7.6	83	--	--
6	1813	3.6	600	426	7.1	21.9	--	6.5	76	0.8	0.1
6	1814	6.9	600	424	7.1	21.7	--	6.4	75	--	--
6	1815	9.8	600	416	7.1	21.4	--	6.4	74	--	--
6	1815	16	600	410	7.0	21.3	--	6.5	75	.9	.1
6	1816	23	600	399	7.0	21.2	--	6.5	75	--	--
6	1817	30	600	272	7.1	19.5	--	7.0	78	--	--
6	1815	33	600	--	--	--	--	--	--	.4	.1
6	1819	36	600	209	7.1	18.7	--	7.2	79	--	--
6	1820	37	600	199	7.1	18.6	--	7.3	79	--	--
6	1825	3.3	900	426	7.1	21.9	--	6.5	76	--	--
6	1826	6.9	900	427	7.1	21.7	--	6.4	74	--	--
6	1827	9.5	900	426	7.0	21.4	--	6.3	73	--	--
6	1828	16	900	397	7.1	21.0	--	6.4	74	--	--
6	1828	23	900	366	7.1	20.6	--	6.6	75	--	--
6	1829	27	900	320	7.0	20.1	--	7.1	80	--	--
22	1848	2.6	300	488	7.1	24.2	--	6.6	79	--	--
22	1851	17	300	482	7.1	23.7	--	6.2	74	--	--
22	1854	35	300	430	7.1	23.5	--	6.3	75	--	--
22	1906	3.6	600	488	7.1	24.2	--	6.6	80	.8	.1
22	1905	7.2	600	487	7.1	24.2	--	6.5	78	--	--
22	1904	10	600	487	7.1	24.1	--	6.4	77	--	--
22	1903	16	600	485	7.1	23.8	--	6.1	73	.5	.1
22	1902	23	600	479	7.1	23.7	--	6.2	74	--	--
22	1900	30	600	441	7.1	23.5	--	6.3	75	--	--
22	1859	36	600	201	7.1	22.1	--	6.4	75	1.4	.3
22	1858	38	600	169	7.1	21.9	--	6.5	75	--	--
22	1911	3.0	900	487	7.1	24.3	--	6.7	81	--	--
22	1911	7.5	900	485	7.1	23.9	--	6.1	74	--	--
22	1912	10	900	486	7.1	23.8	--	6.1	73	--	--
22	1913	17	900	440	7.1	23.4	--	6.2	74	--	--
22	1914	19	900	314	7.1	22.8	--	6.3	75	--	--

Table 18.--Water-quality data for station 391559081341201, Ohio River at river mile 184.6, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (μ S/cm)	pH (standard units)	Temperature, water ($^{\circ}$ C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (μ g/L)	Chlorophyll <i>b</i> (μ g/L)
July											
29	1718	3.0	300	316	7.4	23.6	--	7.4	88	--	--
29	1717	6.2	300	310	7.4	23.6	--	7.4	87	--	--
29	1716	9.5	300	312	7.3	23.6	--	7.3	87	--	--
29	1715	17	300	286	7.3	23.5	--	7.2	86	--	--
29	1715	22	300	295	7.3	23.5	--	7.2	85	--	--
29	1714	29	300	254	7.2	23.2	--	7.1	84	--	--
29	1713	36	300	264	7.2	23.3	--	7.2	84	--	--
29	1711	39	300	275	7.3	23.4	--	7.2	85	--	--
29	1659	3.6	600	289	7.3	23.7	--	7.2	86	--	--
29	1658	6.9	600	298	7.3	23.7	--	7.2	85	--	--
29	1657	9.8	600	291	7.3	23.7	--	7.1	84	--	--
29	1656	16	600	232	7.1	22.8	--	7.0	82	--	--
29	1656	23	600	250	7.2	23.2	--	7.1	84	--	--
29	1655	30	600	206	7.1	22.4	--	7.0	81	--	--
29	1654	36	600	188	7.1	22.2	--	7.0	81	--	--
29	1730	3.0	900	349	7.4	23.6	--	7.5	89	--	--
29	1729	7.2	900	340	7.4	23.6	--	7.5	89	--	--
29	1728	10	900	342	7.4	23.6	--	7.5	89	--	--
29	1728	17	900	333	7.4	23.6	--	7.4	88	--	--
29	1727	23	900	334	7.4	23.6	--	7.5	89	--	--
29	1726	25	900	330	7.4	23.6	--	7.5	88	--	--
August											
13	1112	3.0	300	224	7.1	23.8	--	7.4	91	--	--
13	1112	6.9	300	222	7.1	23.8	--	7.4	87	--	--
13	1111	9.8	300	232	7.1	23.8	--	7.4	87	--	--
13	1108	16	300	238	7.1	23.7	--	7.3	87	--	--
13	1107	23	300	243	7.0	23.7	--	7.3	87	--	--
13	1106	29	300	246	7.0	23.7	--	7.3	87	--	--
13	1123	3.3	600	296	7.2	23.9	3.5	7.3	87	0.8	0.1
13	1122	6.6	600	291	7.2	23.9	--	7.3	87	--	--
13	1121	9.8	600	288	7.2	23.9	--	7.3	87	--	--
13	1120	16	600	288	7.2	23.9	--	7.3	87	.9	.1
13	1119	23	600	268	7.1	23.7	--	7.4	87	--	--
13	1118	30	600	264	7.1	23.7	--	7.4	87	--	--
13	1117	36	600	269	7.1	23.8	--	7.4	87	.7	.1
13	1116	38	600	270	7.1	23.8	--	7.4	87	--	--

Table 18.--Water-quality data for station 391559081341201, Ohio River at river mile 184.6, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (μS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (μg/L)	Chlorophyll <i>b</i> (μg/L)
August											
13	1134	3.3	900	331	7.3	24.2	--	7.2	86	--	--
13	1133	6.9	900	331	7.3	24.2	--	7.2	86	--	--
13	1132	9.8	900	313	7.3	24.0	--	7.3	86	--	--
13	1130	16	900	301	7.2	24.0	--	7.3	87	--	--
13	1129	23	900	290	7.2	23.9	--	7.3	87	--	--
13	1128	30	900	282	7.2	23.8	--	7.3	87	--	--
13	1127	31	900	289	7.2	23.9	--	7.5	89	--	--
September											
15	1515	3.3	300	416	7.4	24.5	--	6.9	83	--	--
15	1514	6.9	300	416	7.4	24.4	--	6.9	82	--	--
15	1514	9.8	300	415	7.4	24.4	--	6.9	82	--	--
15	1513	16	300	415	7.4	24.4	--	6.8	82	--	--
15	1513	23	300	410	7.4	24.3	--	6.8	82	--	--
15	1511	31	300	415	7.4	24.3	--	6.9	82	--	--
15	1507	3.6	600	408	7.3	24.5	4.5	6.8	82	1.2	0.1
15	1506	6.6	600	409	7.4	24.4	--	6.8	82	--	--
15	1506	10	600	409	7.4	24.4	--	6.8	82	--	--
15	1505	16	600	411	7.4	24.3	--	6.8	82	1.2	.1
15	1504	23	600	413	7.4	24.3	--	6.8	82	--	--
15	1504	30	600	414	7.4	24.3	--	6.9	82	--	--
15	1503	37	600	414	7.4	24.3	--	6.9	83	.9	.1
15	1500	3.3	900	413	7.3	24.5	--	6.7	80	--	--
15	1500	6.6	900	411	7.3	24.4	--	6.7	80	--	--
15	1459	10	900	411	7.3	24.4	--	6.7	80	--	--
15	1458	17	900	410	7.3	24.4	--	6.7	81	--	--
15	1458	24	900	410	7.3	24.3	--	6.8	81	--	--
15	1456	26	900	410	7.3	24.3	--	6.8	81	--	--
18	1320	3.0	300	396	7.3	24.4	--	6.7	81	--	--
18	1320	6.6	300	397	7.3	24.4	--	6.7	81	--	--
18	1319	10	300	397	7.3	24.4	--	6.7	81	--	--
18	1319	17	300	397	7.3	24.5	--	6.7	81	--	--
18	1318	24	300	397	7.3	24.4	--	6.6	80	--	--
18	1317	30	300	397	7.3	24.4	--	6.5	80	--	--
18	1316	32	300	396	7.3	24.4	--	6.5	80	--	--

Table 18.--Water-quality data for station 391559081341201, Ohio River at river mile 184.6, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (µg/L)	Chlorophyll <i>b</i> (µg/L)
September											
18	1312	3.9	600	395	7.3	24.5	5.0	6.7	81	0.8	0.1
18	1312	6.9	600	397	7.3	24.5	--	6.7	81	--	--
18	1311	10	600	397	7.3	24.5	--	6.7	82	--	--
18	1306	17	600	394	7.3	24.5	--	6.6	80	.8	.1
18	1306	23	600	395	7.3	24.5	--	6.6	80	--	--
18	1305	30	600	393	7.3	24.5	--	6.6	80	.9	.1
18	1304	36	600	401	7.3	24.5	--	6.6	80	--	--
18	1301	3.3	900	391	7.3	24.5	--	6.4	78	--	--
18	1300	6.9	900	395	7.3	24.5	--	6.4	78	--	--
18	1259	9.8	900	391	7.3	24.5	--	6.4	79	--	--
18	1258	17	900	395	7.3	24.5	--	6.4	79	--	--
18	1257	22	900	397	7.3	24.5	--	6.5	79	--	--
20	1855	2.6	300	392	7.2	24.1	--	6.5	79	--	--
20	1854	6.9	300	385	7.2	24.1	--	6.5	79	--	--
20	1854	9.8	300	385	7.2	24.1	--	6.5	79	--	--
20	1853	16	300	382	7.2	24.1	--	6.5	79	--	--
20	1852	23	300	382	7.2	24.1	--	6.5	79	--	--
20	1851	30	300	379	7.2	24.2	--	6.5	79	--	--
20	1850	34	300	378	7.2	24.1	--	6.5	79	--	--
20	1846	3.6	600	393	7.2	24.1	--	6.5	79	1.1	.1
20	1845	6.9	600	394	7.2	24.1	--	6.6	79	--	--
20	1845	10	600	395	7.2	24.1	--	6.6	79	--	--
20	1844	17	600	397	7.2	24.1	--	6.6	79	1.0	.1
20	1843	23	600	397	7.2	24.1	--	6.6	80	--	--
20	1843	30	600	397	7.2	24.1	--	6.6	80	--	--
20	1842	37	600	397	7.2	24.1	--	6.6	80	1.2	.1
20	1838	3.0	900	408	7.2	24.2	--	6.5	79	--	--
20	1837	5.9	900	407	7.2	24.2	--	6.5	79	--	--
20	1836	9.8	900	406	7.2	24.2	--	6.5	79	--	--
20	1836	17	900	406	7.2	24.2	--	6.5	79	--	--
20	1835	23	900	397	7.2	24.1	--	6.5	79	--	--

Table 19.--Water-quality data for station 391628081360401, Ohio River at river mile 186.5, main channel, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1842	3.3	2,600	426	7.1	22.3	--	6.7	79	--	--
6	1843	10	2,600	408	7.1	21.2	--	6.4	74	--	--
6	1844	23	2,600	380	7.1	20.6	--	6.4	73	--	--
22	1933	3.6	2,600	465	7.1	23.9	--	6.5	79	--	--
22	1934	12	2,600	462	7.1	23.9	--	6.5	78	--	--
22	1934	22	2,600	429	7.1	23.4	--	6.1	72	--	--
July											
29	1848	3.6	2,600	241	7.1	23.0	--	7.1	83	--	--
29	1848	11	2,600	240	7.2	23.0	--	7.1	83	--	--
29	1847	24	2,600	238	7.2	23.0	--	7.0	83	--	--
August											
13	1148	3.3	2,600	263	7.1	23.8	--	7.3	87	--	--
13	1150	10	2,600	269	7.1	23.8	--	7.3	87	--	--
13	1149	21	2,600	265	7.1	23.8	--	7.4	87	--	--
September											
15	1538	3.6	2,600	414	7.4	24.7	--	6.8	82	--	--
15	1537	10	2,600	414	7.4	24.4	--	6.8	81	--	--
15	1536	21	2,600	413	7.4	24.3	--	6.7	81	--	--
18	1333	3.0	2,600	392	7.3	24.5	--	6.6	80	--	--
18	1334	13	2,600	392	7.3	24.5	--	6.5	80	--	--
18	1334	27	2,600	392	7.3	24.5	--	6.5	80	--	--
20	1901	3.3	2,600	395	7.2	24.1	--	6.4	86	--	--
20	1903	10	2,600	396	7.2	24.1	--	6.4	77	--	--
20	1903	20	2,600	396	7.2	24.0	--	6.4	77	--	--

Table 20.--Water-quality data for station 391604081361301, Ohio River at river mile 186.5, back channel, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1835	3.6	400	422	7.3	22.0	--	6.7	78	--	--
6	1836	15	400	419	7.1	21.6	--	6.4	75	--	--
6	1837	26	400	413	7.1	21.2	--	6.3	73	--	--
22	1927	3.3	400	459	7.1	24.1	--	6.6	80	--	--
22	1928	13	400	456	7.1	23.8	--	6.3	76	--	--
22	1929	27	400	446	7.1	23.6	--	6.2	74	--	--
July											
29	1809	3.3	400	327	7.4	23.6	--	7.4	87	--	--
29	1808	12	400	330	7.4	23.6	--	7.4	88	--	--
29	1808	26	400	329	7.4	23.6	--	7.4	88	--	--
August											
13	1141	3.9	400	306	7.2	24.0	--	7.3	87	--	--
13	1143	13	400	310	7.3	24.0	--	7.3	86	--	--
13	1142	27	400	313	7.3	24.1	--	7.2	86	--	--
September											
15	1544	3.3	400	413	7.4	24.4	--	6.8	82	--	--
15	1546	13	400	413	7.4	24.3	--	6.7	80	--	--
15	1545	27	400	415	7.4	24.3	--	6.7	80	--	--
18	1327	3.0	400	394	7.3	24.5	--	6.6	80	--	--
18	1328	8.5	400	394	7.3	24.5	--	6.6	80	--	--
18	1328	19	400	395	7.3	24.5	--	6.6	80	--	--
20	1941	3.3	400	399	7.2	24.1	--	6.5	82	--	--
20	1942	13	400	399	7.2	24.1	--	6.5	79	--	--
20	1941	26	400	399	7.2	24.1	--	6.5	79	--	--

Table 21.--Water-quality data for station 391636081384701, Ohio River at river mile 189.0, main channel, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1852	3.6	2,400	414	7.3	22.5	--	7.0	83	--	--
6	1853	16	2,400	403	7.1	20.8	--	6.4	74	--	--
22	1942	3.3	2,400	457	7.2	24.7	--	7.2	87	--	--
22	1942	13	2,400	454	7.1	23.7	--	6.3	75	--	--
22	1943	26	2,400	455	7.1	23.6	--	6.1	73	--	--
July											
29	1838	3.6	2,400	242	7.2	23.0	--	7.0	82	--	--
29	1837	12	2,400	240	7.2	23.0	--	7.0	82	--	--
29	1836	27	2,400	234	7.2	23.0	--	7.0	82	--	--
August											
13	1156	4.3	2,400	279	7.1	23.9	--	7.3	87	--	--
13	1158	13	2,400	282	7.2	24.0	--	7.3	83	--	--
13	1157	27	2,400	274	7.1	23.9	--	7.0	83	--	--
September											
15	1611	3.3	2,400	419	7.4	24.7	--	6.8	84	--	--
15	1613	16	2,400	422	7.4	24.3	--	6.7	80	--	--
15	1612	31	2,400	422	7.4	24.3	--	6.7	80	--	--
18	1428	3.0	2,400	396	7.3	24.6	--	6.5	80	--	--
18	1429	14	2,400	396	7.3	24.5	--	6.5	79	--	--
18	1429	29	2,400	397	7.3	24.5	--	6.5	79	--	--
20	1913	3.3	2,400	401	7.3	24.2	--	6.7	81	--	--
20	1912	14	2,400	401	7.2	24.0	--	6.5	78	--	--
20	1911	29	2,400	401	7.2	23.8	--	6.6	79	--	--

Table 22.--Water-quality data for station 391616081385001, Ohio River at river mile 189.0, back channel, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1908	3.9	500	412	7.1	22.6	--	6.9	82	--	--
6	1906	13	500	407	7.1	21.9	--	6.7	78	--	--
6	1908	25	500	409	7.1	21.1	--	6.4	74	--	--
22	1949	3.3	500	452	7.1	24.2	--	6.7	81	--	--
22	1950	11	500	451	7.1	24.0	--	6.4	77	--	--
22	1951	23	500	451	7.1	23.8	--	6.2	75	--	--
July											
29	1818	3.9	500	325	7.4	23.6	--	7.3	87	--	--
29	1817	12	500	324	7.4	23.6	--	7.3	87	--	--
29	1816	27	500	324	7.4	23.6	--	7.3	87	--	--
August											
13	1210	3.6	500	305	7.2	24.1	--	7.3	87	--	--
13	1212	12	500	308	7.3	24.1	--	7.2	86	--	--
13	1211	25	500	307	7.2	24.1	--	7.2	86	--	--
September											
15	1605	3.6	500	418	7.4	24.5	--	6.8	82	--	--
15	1606	12	500	419	7.4	24.5	--	6.6	80	--	--
15	1605	26	500	419	7.4	24.5	--	6.7	80	--	--
18	1420	3.0	500	394	7.3	24.6	--	6.6	81	--	--
18	1422	12	500	393	7.3	24.6	--	6.5	79	--	--
18	1421	25	500	394	7.3	24.6	--	6.5	79	--	--
20	1932	3.0	500	404	7.2	24.1	--	6.6	80	--	--
20	1934	12	500	405	7.2	24.0	--	6.5	78	--	--
20	1933	25	500	407	7.2	24.0	--	6.5	78	--	--

Table 23.--Water-quality data for station 391601081411101, Ohio River at river mile 191.3, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1915	3.0	600	434	7.3	22.2	--	6.9	81	--	--
6	1916	17	600	427	7.2	21.1	--	6.4	74	--	--
6	1917	35	600	424	7.1	20.9	--	6.4	74	--	--
22	1958	3.3	600	463	7.2	24.3	--	6.8	83	--	--
22	1958	17	600	461	7.1	23.7	--	6.2	74	--	--
22	1959	33	600	460	7.1	23.7	--	6.0	72	--	--
23	1034	3.6	600	469	7.2	23.7	--	6.2	75	--	--
23	1034	16	600	469	7.2	23.7	--	6.2	75	--	--
23	1035	33	600	463	7.2	23.6	--	6.2	74	--	--
July											
29	1828	3.9	600	288	7.3	23.4	--	7.1	85	--	--
29	1827	16	600	292	7.3	23.4	--	7.2	85	--	--
29	1827	33	600	306	7.4	23.5	--	7.2	85	--	--
30	1121	3.3	600	296	7.2	23.3	--	7.0	82	--	--
30	1123	17	600	306	7.3	23.3	--	7.2	85	--	--
30	1122	32	600	308	7.3	23.3	--	7.2	85	--	--
August											
13	1219	3.3	600	309	7.2	24.2	--	7.3	87	--	--
13	1220	16	600	313	7.3	24.2	--	7.2	86	--	--
13	1220	33	600	316	7.3	24.2	--	7.2	86	--	--
September											
15	1620	3.6	600	429	7.4	25.0	--	6.7	84	--	--
15	1621	17	600	430	7.4	24.5	--	6.6	79	--	--
15	1621	33	600	431	7.4	24.5	--	6.6	79	--	--
18	1438	3.0	600	397	7.3	24.6	--	6.6	81	--	--
18	1439	13	600	396	7.3	24.6	--	6.5	80	--	--
18	1438	28	600	396	7.3	24.6	--	6.5	80	--	--
20	1924	3.3	600	418	7.3	24.5	--	6.8	83	--	--
20	1925	17	600	419	7.3	23.9	--	6.4	78	--	--
20	1924	33	600	419	7.3	23.9	--	6.4	78	--	--
21	1051	3.3	600	399	7.2	24.2	--	6.5	80	--	--
21	1052	15	600	394	7.2	24.0	--	6.3	76	--	--
21	1052	31	600	394	7.2	24.0	--	6.3	76	--	--

Table 24.--Water-quality data for station 391447081414201, Ohio River at river mile 192.9, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1925	3.3	300	433	7.3	22.5	--	6.9	81	--	--
6	1927	6.9	300	429	7.2	21.9	--	6.8	79	--	--
6	1927	10	300	427	7.2	21.1	--	6.5	75	--	--
6	1928	16	300	426	7.1	20.9	--	6.4	74	--	--
6	1928	23	300	428	7.1	20.8	--	6.4	73	--	--
6	1929	30	300	429	7.1	20.8	--	6.4	73	--	--
6	1930	32	300	429	7.1	20.8	--	6.4	73	--	--
6	1932	3.3	600	426	7.1	22.3	--	6.9	81	0.7	0.1
6	1933	7.2	600	428	7.1	22.0	--	6.7	79	--	--
6	1933	10	600	427	7.1	21.1	--	6.5	75	--	--
6	1934	17	600	426	7.1	20.9	--	6.4	73	.6	.1
6	1934	23	600	428	7.1	20.9	--	6.4	73	--	--
6	1935	30	600	428	7.1	20.8	--	6.4	73	.2	.1
6	1935	37	600	433	7.1	20.8	--	6.4	73	--	--
6	1937	3.0	800	430	7.2	21.7	--	6.6	77	--	--
6	1938	6.6	800	426	7.1	21.3	--	6.5	76	--	--
6	1939	9.5	800	426	7.1	21.0	--	6.4	74	--	--
6	1939	16	800	423	7.1	21.0	--	6.4	73	--	--
6	1940	23	800	426	7.1	20.9	--	6.4	73	--	--
6	1940	27	800	423	7.1	20.9	--	6.4	73	--	--
23	1042	3.3	300	463	7.2	23.7	--	6.1	73	--	--
23	1043	6.2	300	465	7.2	23.6	--	6.1	73	--	--
23	1044	10	300	467	7.2	23.6	--	6.1	73	--	--
23	1045	16	300	465	7.2	23.6	--	6.0	72	--	--
23	1046	23	300	464	7.2	23.5	--	6.0	72	--	--
23	1047	29	300	463	7.1	23.5	--	6.0	72	--	--
23	1050	5.2	600	461	7.2	23.6	4.0	6.1	73	.9	.1
23	1052	6.6	600	461	7.2	23.6	--	6.1	73	--	--
23	1052	9.2	600	462	7.2	23.6	--	6.1	73	--	--
23	1054	17	600	460	7.2	23.5	--	6.1	73	.6	.1
23	1055	23	600	460	7.2	23.5	--	6.1	73	--	--
23	1056	30	600	460	7.2	23.5	--	6.1	72	.9	.1
23	1101	3.6	800	460	7.2	23.7	--	6.1	73	--	--
23	1101	6.6	800	460	7.2	23.6	--	6.1	73	--	--
23	1102	10	800	461	7.2	23.6	--	6.1	73	--	--
23	1103	17	800	461	7.2	23.6	--	6.1	73	--	--
23	1104	23	800	460	7.2	23.6	--	6.1	73	--	--
23	1105	26	800	460	7.2	23.6	--	6.1	73	--	--

Table 24.--Water-quality data for station 391447081414201, Ohio River at river mile 192.9, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (µg/L)	Chlorophyll <i>b</i> (µg/L)
July											
30	1212	3.6	300	320	7.3	23.4	--	7.2	85	--	--
30	1216	6.6	300	320	7.3	23.4	--	7.2	85	--	--
30	1215	10	300	322	7.3	23.4	--	7.2	85	--	--
30	1215	16	300	320	7.3	23.4	--	7.2	85	--	--
30	1214	22	300	320	7.4	23.4	--	7.2	85	--	--
30	1213	29	300	322	7.3	23.4	--	7.1	84	--	--
30	1158	3.0	600	301	7.3	23.3	--	7.2	85	1.4	0.2
30	1157	6.6	600	301	7.3	23.3	--	7.2	85	--	--
30	1157	10	600	301	7.3	23.3	--	7.2	85	.9	.1
30	1155	17	600	301	7.3	23.3	--	7.2	85	--	--
30	1154	24	600	302	7.3	23.3	--	7.2	85	--	--
30	1152	29	600	303	7.3	23.3	--	7.2	85	--	--
30	1144	3.3	800	272	7.2	23.2	--	7.1	83	--	--
30	1144	6.9	800	277	7.2	23.1	--	7.1	84	--	--
30	1143	9.5	800	275	7.2	23.1	--	7.1	84	--	--
30	1143	17	800	275	7.2	23.1	--	7.1	84	--	--
30	1142	23	800	281	7.2	23.2	--	7.2	84	--	--
30	1141	30	800	281	7.0	23.2	--	7.1	84	--	--
30	1140	32	800	280	7.2	23.2	--	7.1	84	--	--
August											
13	1246	3.3	300	277	7.2	24.1	--	7.2	86	--	--
13	1246	6.2	300	280	7.2	24.1	--	7.2	86	--	--
13	1245	9.5	300	281	7.2	24.1	--	7.2	86	--	--
13	1244	17	300	282	7.2	24.1	--	7.2	86	--	--
13	1243	23	300	283	7.2	24.1	--	7.2	86	--	--
13	1243	30	300	283	7.2	24.1	--	7.2	86	--	--
13	1254	3.6	600	294	7.3	24.2	3.0	7.2	86	.7	.1
13	1253	6.9	600	294	7.3	24.2	--	7.2	86	--	--
13	1252	9.8	600	293	7.3	24.2	--	7.2	86	--	--
13	1251	17	600	300	7.3	24.2	--	7.2	86	.7	.1
13	1251	23	600	304	7.3	24.2	--	7.2	86	--	--
13	1250	31	600	305	7.3	24.2	--	7.2	86	.8	.1
13	1301	3.3	800	332	7.4	24.4	--	7.2	86	--	--
13	1301	7.2	800	334	7.4	24.4	--	7.2	86	--	--
13	1300	10	800	332	7.4	24.4	--	7.2	86	--	--
13	1259	16	800	332	7.4	24.4	--	7.1	86	--	--
13	1258	23	800	331	7.4	24.4	--	7.2	86	--	--
13	1257	26	800	331	7.4	24.4	--	7.2	86	--	--

Table 24.--Water-quality data for station 391447081414201, Ohio River at river mile 192.9, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (μS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (μg/L)	Chlorophyll <i>b</i> (μg/L)
September											
15	1641	3.3	300	435	7.4	24.7	--	6.8	82	--	--
15	1642	6.6	300	432	7.4	24.5	--	6.7	81	--	--
15	1642	9.8	300	433	7.4	24.5	--	6.7	80	--	--
15	1643	16	300	433	7.4	24.4	--	6.6	80	--	--
15	1643	23	300	432	7.4	24.4	--	6.6	80	--	--
15	1644	29	300	434	7.4	24.4	--	6.6	79	--	--
15	1632	3.3	600	432	7.4	24.6	--	6.7	81	1.2	0.1
15	1632	6.2	600	432	7.4	24.6	--	6.7	80	--	--
15	1631	10	600	432	7.4	24.5	--	6.6	80	--	--
15	1630	16	600	430	7.4	24.5	--	6.6	80	.7	.1
15	1630	23	600	426	7.4	24.5	--	6.6	80	--	--
15	1629	30	600	427	7.4	24.5	--	6.6	80	--	--
15	1628	34	600	432	7.4	24.5	--	6.6	79	--	--
15	1639	3.9	800	429	7.4	25.2	--	7.0	85	--	--
15	1638	7.2	800	430	7.4	24.8	--	6.7	82	--	--
15	1637	10	800	431	7.4	24.7	--	6.7	81	--	--
15	1637	17	800	429	7.4	24.5	--	6.6	80	--	--
15	1636	24	800	430	7.4	24.6	--	6.6	80	--	--
15	1635	28	800	427	7.4	24.5	--	6.6	80	--	--
18	1217	3.0	300	415	7.3	24.6	--	6.7	82	--	--
18	1218	5.9	300	413	7.3	24.6	--	6.7	82	--	--
18	1219	9.2	300	413	7.3	24.6	--	6.6	81	--	--
18	1221	16	300	410	7.3	24.6	--	6.6	81	--	--
18	1221	23	300	410	7.3	24.6	--	6.6	81	--	--
18	1222	29	300	412	7.3	24.6	--	6.6	80	--	--
18	1230	30	600	410	7.3	24.6	--	6.6	81	1.2	.1
18	1230	6.2	600	411	7.3	24.6	--	6.6	81	--	--
18	1229	9.8	600	411	7.3	24.6	--	6.6	81	--	--
18	1228	16	600	410	7.3	24.6	--	6.6	81	1.0	.1
18	1228	23	600	412	7.3	24.6	--	6.6	80	--	--
18	1226	29	600	411	7.3	24.6	--	6.6	80	1.0	.1
18	1226	32	600	411	7.3	24.6	--	6.6	80	--	--
18	1238	3.6	800	411	7.3	24.6	--	6.7	82	--	--
18	1237	6.9	800	411	7.3	24.6	--	6.7	81	--	--
18	1236	10	800	411	7.3	24.5	--	6.6	81	--	--
18	1235	16	800	411	7.3	24.5	--	6.6	81	--	--
18	1234	23	800	411	7.3	24.5	--	6.6	81	--	--

Table 24.--Water-quality data for station 391447081414201, Ohio River at river mile 192.9, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (µg/L)	Chlorophyll <i>b</i> (µg/L)
September											
21	1106	3.3	300	400	7.2	24.1	--	6.4	78	--	--
21	1106	6.6	300	400	7.2	24.0	--	6.4	77	--	--
21	1106	9.8	300	402	7.2	24.0	--	6.3	76	--	--
21	1107	16	300	403	7.2	23.9	--	6.3	76	--	--
21	1107	22	300	405	7.2	23.9	--	6.2	75	--	--
21	1108	28	300	405	7.2	23.9	--	6.2	75	--	--
21	1116	3.3	600	399	7.2	24.1	4.5	6.4	77	0.9	0.1
21	1115	5.9	600	399	7.2	24.0	--	6.3	77	--	--
21	1114	9.8	600	398	7.2	24.0	--	6.3	76	--	--
21	1114	17	600	399	7.2	24.0	--	6.2	75	1.3	.2
21	1117	24	600	400	7.2	23.9	--	6.2	75	--	--
21	1113	30	600	399	7.2	23.9	--	6.2	75	--	--
21	1112	36	600	401	7.2	23.9	--	6.2	75	1.3	.2
21	1103	3.6	800	398	7.2	24.1	--	6.4	77	--	--
21	1103	6.6	800	399	7.2	24.0	--	6.3	76	--	--
21	1102	9.5	800	400	7.2	23.9	--	6.2	75	--	--
21	1101	17	800	401	7.2	23.9	--	6.2	75	--	--
21	1101	23	800	401	7.2	23.9	--	6.2	75	--	--
21	1100	26	800	401	7.2	23.9	--	6.2	75	--	--

Table 25.--Water-quality data for station 391351081412201, Ohio River at river mile 194.C, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	1954	3.6	600	421	7.4	21.4	--	6.5	76	--	--
6	1954	17	600	420	7.2	21.2	--	6.5	74	--	--
6	1955	33	600	426	7.1	21.0	--	6.6	76	--	--
23	1128	3.3	600	463	7.2	23.7	--	6.2	74	--	--
23	1128	16	600	463	7.2	23.6	--	5.9	71	--	--
23	1129	32	600	464	7.1	23.6	--	5.8	70	--	--
July											
30	1241	3.0	600	294	7.3	23.4	--	7.0	83	--	--
30	1243	16	600	288	7.2	23.3	--	6.9	82	--	--
30	1242	33	600	290	7.2	23.3	--	7.0	83	--	--
August											
13	1309	3.6	600	315	7.3	24.3	--	7.3	87	--	--
13	1311	16	600	308	7.3	24.3	--	7.2	86	--	--
13	1310	33	600	301	7.3	24.3	--	7.2	86	--	--
September											
15	1649	3.9	600	427	7.4	24.9	--	6.7	81	--	--
15	1650	17	600	428	7.4	24.5	--	6.6	80	--	--
15	1649	33	600	430	7.4	24.4	--	6.6	79	--	--
18	1253	3.6	600	410	7.3	24.5	--	6.7	82	--	--
18	1254	17	600	412	7.3	24.5	--	6.6	80	--	--
18	1253	32	600	409	7.3	24.5	--	6.6	80	--	--
21	1134	3.3	600	403	7.2	24.0	--	6.4	77	--	--
21	1136	17	600	404	7.2	23.9	--	6.3	76	--	--
21	1135	32	600	404	7.2	23.9	--	6.3	76	--	--

Table 26.--Water-quality data for station 391302081425101, Ohio River at river mile 195.8, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	2000	3.6	600	405	7.4	22.3	--	7.0	82	--	--
6	2000	20	600	408	7.2	22.2	--	6.4	75	--	--
6	2001	39	600	405	7.1	21.1	--	6.4	74	--	--
23	1135	3.3	600	464	7.2	23.8	--	6.0	73	--	--
23	1136	20	600	463	7.2	23.7	--	6.0	72	--	--
23	1138	36	600	462	7.2	23.7	--	5.9	71	--	--
July											
30	1250	3.6	600	298	7.3	23.3	--	6.9	82	--	--
30	1251	17	600	297	7.3	23.3	--	7.0	82	--	--
30	1251	37	600	297	7.3	23.3	--	7.0	83	--	--
August											
13	1316	3.3	600	313	7.3	24.3	--	7.2	86	--	--
13	1320	18	600	311	7.3	24.3	--	7.2	86	--	--
13	1318	36	600	309	7.3	24.3	--	7.2	86	--	--
September											
15	1656	3.6	600	423	7.4	24.9	--	6.9	84	--	--
15	1658	18	600	422	7.4	24.5	--	6.7	80	--	--
15	1657	38	600	420	7.4	24.4	--	6.7	81	--	--
18	1302	3.0	600	410	7.3	24.5	--	6.6	81	--	--
18	1304	19	600	408	7.3	24.5	--	6.5	79	--	--
18	1303	36	600	409	7.3	24.5	--	6.5	80	--	--
21	1143	3.3	600	413	7.3	23.9	--	6.5	79	--	--
21	1144	22	600	414	7.3	23.9	--	6.3	76	--	--
21	1143	39	600	415	7.3	23.9	--	6.3	76	--	--

Table 27.--Water-quality data for station 391146081440501, Ohio River at river mile 197.9, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	2006	3.6	500	397	7.3	22.1	--	7.0	82	--	--
6	2006	15	500	399	7.2	21.4	--	6.6	76	--	--
6	2007	30	500	400	7.1	21.0	--	6.4	74	--	--
23	1145	3.0	500	459	7.2	24.0	--	6.3	76	--	--
23	1146	14	500	459	7.2	23.8	--	6.0	73	--	--
23	1148	26	500	459	7.2	23.7	--	6.0	72	--	--
July											
30	1256	3.6	500	293	7.3	23.4	--	7.0	83	--	--
30	1257	14	500	294	7.3	23.3	--	6.9	81	--	--
30	1257	30	500	297	7.3	23.3	--	7.0	83	--	--
August											
13	1325	3.3	500	311	7.3	24.4	--	7.2	87	--	--
13	1327	12	500	311	7.3	24.3	--	7.2	86	--	--
13	1326	27	500	312	7.3	24.3	--	7.2	86	--	--
September											
15	1705	3.3	500	412	7.4	24.6	--	6.8	83	--	--
15	1704	15	500	412	7.3	24.5	--	6.7	81	--	--
15	1703	31	500	411	7.3	24.5	--	6.7	81	--	--
18	1310	3.6	500	406	7.3	24.6	--	6.7	81	--	--
18	1314	15	500	406	7.3	24.6	--	6.7	82	--	--
18	1311	28	500	407	7.3	24.6	--	6.6	81	--	--
21	1150	3.3	500	431	7.3	24.2	--	6.6	80	--	--
21	1152	6.2	500	434	7.3	24.0	--	6.4	78	--	--
21	1151	13	500	437	7.3	24.0	--	6.4	77	--	--

Table 28.--Water-quality data for station 391049081451601, Ohio River at river mile 199.5, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	2013	3.6	500	385	7.2	22.0	--	7.0	82	--	--
6	2014	22	500	384	7.1	20.8	--	6.5	75	--	--
6	2015	39	500	422	7.1	20.6	--	6.8	77	--	--
23	1211	3.3	500	459	7.2	24.1	--	6.2	75	--	--
23	1212	23	500	462	7.2	23.9	--	6.0	73	--	--
23	1213	43	500	493	7.4	22.4	--	6.2	72	--	--
July											
30	1317	3.3	500	290	7.3	23.4	--	6.6	83	--	--
30	1320	23	500	298	7.3	23.3	--	6.9	82	--	--
30	1319	45	500	300	7.3	23.3	--	6.9	82	--	--
August											
13	1344	3.3	500	301	7.3	24.3	--	7.2	86	--	--
13	1347	23	500	305	7.3	24.2	--	7.2	86	--	--
13	1345	45	500	315	7.3	24.3	--	7.2	86	--	--
September											
15	1721	3.9	500	406	7.4	24.6	--	6.8	82	--	--
15	1723	23	500	406	7.4	24.5	--	6.7	80	--	--
15	1722	46	500	404	7.3	24.5	--	6.7	80	--	--
18	1336	3.3	500	404	7.3	24.6	--	6.7	81	--	--
18	1338	21	500	404	7.3	24.6	--	6.6	81	--	--
18	1337	42	500	509	7.5	23.7	--	6.6	80	--	--
21	1220	3.3	500	427	7.3	24.1	--	7.3	81	--	--
21	1222	21	500	429	7.3	23.9	--	6.3	76	--	--
21	1221	45	500	547	7.5	23.3	--	6.3	75	--	--

Table 29.--Water-quality data for station 390803081443501, Ohio River at river mile 202.8, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	2023	3.6	600	395	7.4	22.4	--	7.4	88	--	--
6	2024	17	600	399	7.3	21.1	--	6.7	77	--	--
6	2025	36	600	401	7.2	20.9	--	6.6	76	--	--
23	1233	2.6	600	454	7.2	24.2	--	6.3	76	--	--
23	1234	17	600	455	7.2	23.8	--	6.0	73	--	--
23	1235	32	600	455	7.1	23.7	--	5.9	71	--	--
July											
30	1329	3.0	600	299	7.3	23.4	--	7.8	92	--	--
30	1330	16	600	296	7.3	23.3	--	6.8	81	--	--
30	1330	33	600	296	7.3	23.3	--	6.9	88	--	--
August											
13	1356	3.3	600	306	7.3	24.3	--	7.2	86	--	--
13	1358	17	600	306	7.3	24.2	--	7.1	85	--	--
13	1357	33	600	304	7.3	24.2	--	7.1	85	--	--
September											
15	1732	3.6	600	398	7.4	24.6	--	6.8	82	--	--
15	1733	19	600	401	7.4	24.4	--	6.7	80	--	--
15	1733	37	600	405	7.4	24.4	--	6.7	80	--	--
18	1202	2.6	600	399	7.3	24.5	--	6.7	83	--	--
18	1204	17	600	397	7.3	24.5	--	6.5	80	--	--
18	1203	34	600	399	7.3	24.5	--	6.5	79	--	--
21	1234	3.3	600	414	7.3	24.1	--	6.4	78	--	--
21	1235	18	600	414	7.3	24.0	--	6.4	77	--	--
21	1234	35	600	414	7.3	23.9	--	6.3	76	--	--

Table 30.--Water-quality data for station 390721081443001, Ohio River at river mile 203.6, June to September 1992

[ft = feet; $\mu\text{S}/\text{cm}$ = microsiemens per centimeter; C = degrees Celsius; in. = inches; mg/L = milligrams per liter; $\mu\text{g}/\text{L}$ = micrograms per liter; -- = data not collected]

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
June											
6	2029	3.3	200	399	7.3	22.3	--	7.4	87	--	--
6	2029	6.9	200	401	7.2	21.7	--	7.2	84	--	--
6	2030	10	200	399	7.2	21.5	--	7.1	82	--	--
6	2031	16	200	398	7.2	21.1	--	6.8	78	--	--
6	2031	23	200	396	7.1	21.0	--	6.6	76	--	--
6	2032	29	200	401	7.1	20.9	--	6.6	76	--	--
6	2033	37	200	398	7.1	20.9	--	6.6	75	--	--
6	2034	36	200	400	7.1	20.9	--	6.6	75	--	--
6	2041	3.6	500	397	7.3	22.2	--	7.4	87	1.7	0.3
6	2041	7.2	500	399	7.2	21.8	--	7.3	85	--	--
6	2042	9.8	500	397	7.2	21.5	--	7.0	81	--	--
6	2043	17	500	398	7.1	21.1	--	6.7	77	1.5	.2
6	2044	23	500	397	7.1	20.9	--	6.6	76	--	--
6	2044	30	500	400	7.1	20.9	--	6.6	75	--	--
6	2044	33	500	--	--	--	--	--	--	1.1	.2
6	2045	36	500	397	7.1	20.9	--	6.6	75	--	--
6	2046	38	500	403	7.1	20.9	--	6.6	75	--	--
6	2049	3.3	700	400	7.3	22.4	--	7.6	89	--	--
6	2050	6.2	700	400	7.3	21.9	--	7.3	85	--	--
6	2050	10	700	399	7.2	21.7	--	7.2	84	--	--
6	2051	16	700	399	7.2	21.2	--	6.8	79	--	--
6	2052	23	700	399	7.1	21.1	--	6.7	78	--	--
6	2053	29	700	400	7.1	21.0	--	6.7	77	--	--
6	2053	36	700	400	7.1	20.9	--	6.7	76	--	--
6	2054	43	700	400	7.1	20.9	--	6.6	76	--	--
6	2055	46	700	400	7.1	20.9	--	6.6	76	--	--
23	1249	3.6	200	455	7.2	24.5	--	6.5	79	--	--
23	1250	6.9	200	454	7.2	24.1	--	6.3	76	--	--
23	1251	10	200	453	7.2	24.0	--	6.3	76	--	--
23	1253	22	200	454	7.1	23.9	--	6.0	72	--	--
23	1253	29	200	454	7.1	23.8	--	6.0	72	--	--
23	1254	31	200	454	7.1	23.8	--	5.9	71	--	--
23	1259	3.3	500	454	7.2	24.5	3.5	6.4	78	1.4	.2
23	1260	6.6	500	454	7.2	24.1	--	6.3	76	--	--
23	1300	9.8	500	454	7.2	24.0	--	6.2	75	--	--
23	1301	16	500	454	7.2	23.9	--	6.1	74	1.4	.2
23	1302	23	500	454	7.2	23.9	--	6.1	73	--	--
23	1303	30	500	454	7.1	23.8	--	6.0	72	--	--
23	1304	36	500	454	7.1	23.8	--	5.9	71	1.2	.1
23	1306	38	500	454	7.1	23.8	--	5.8	70	--	--

Table 30.--Water-quality data for station 390721081443001, Ohio River at river mile 203.6, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (µg/L)	Chlorophyll <i>b</i> (µg/L)
June											
23	1312	3.6	700	454	7.2	24.3	--	6.3	77	--	--
23	1313	6.6	700	454	7.2	24.0	--	6.2	75	--	--
23	1314	9.8	700	454	7.2	24.0	--	6.2	74	--	--
23	1315	16	700	453	7.2	23.9	--	6.0	73	--	--
23	1315	16	700	453	7.1	23.9	--	6.0	72	--	--
23	1316	23	700	454	7.1	23.9	--	6.0	72	--	--
23	1317	30	700	453	7.1	23.8	--	6.0	72	--	--
23	1318	36	700	451	7.1	23.8	--	6.0	72	--	--
23	1319	41	700	454	7.1	23.8	--	5.8	70	--	--
23	1325	3.3	900	453	7.1	23.9	--	6.0	73	--	--
23	1326	6.6	900	453	7.2	23.9	--	6.0	72	--	--
23	1326	10	900	453	7.2	23.9	--	6.0	72	--	--
23	1327	16	900	454	7.1	23.9	--	6.0	72	--	--
23	1329	23	900	454	7.2	23.9	--	6.0	72	--	--
23	1329	30	900	453	7.1	23.9	--	6.0	72	--	--
23	1331	36	900	454	7.1	23.9	--	6.0	72	--	--
23	1332	43	900	454	7.1	23.9	--	6.0	72	--	--
23	1332	43	900	454	7.1	23.9	--	6.0	72	--	--
23	1333	49	900	454	7.1	23.9	--	5.9	71	--	--
August											
13	1503	3.0	200	292	7.3	24.2	--	7.1	85	--	--
13	1502	6.9	200	294	7.3	24.2	--	7.1	85	--	--
13	1502	9.8	200	293	7.3	24.2	--	7.1	85	--	--
13	1501	16	200	293	7.3	24.2	--	7.1	85	--	--
13	1501	23	200	294	7.3	24.2	--	7.1	85	--	--
13	1500	30	200	294	7.3	24.2	--	7.1	85	--	--
13	1500	35	200	295	7.3	24.2	--	7.1	85	--	--
13	1456	3.9	500	295	7.3	24.2	2.5	7.1	85	1.2	0.1
13	1455	6.9	500	296	7.3	24.2	--	7.1	85	--	--
13	1455	11	500	298	7.3	24.2	--	7.1	85	--	--
13	1454	17	500	299	7.3	24.2	--	7.1	85	1.0	.1
13	1453	24	500	302	7.3	24.2	--	7.1	85	--	--
13	1452	30	500	303	7.3	24.2	--	7.1	85	--	--
13	1451	36	500	303	7.3	24.2	--	7.1	85	1.2	.1
13	1450	38	500	303	7.3	24.2	--	7.1	85	--	--

Table 30.--Water-quality data for station 390721081443001, Ohio River at river mile 203.6, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance ($\mu\text{S}/\text{cm}$)	pH (standard units)	Temperature, water ($^{\circ}\text{C}$)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> ($\mu\text{g}/\text{L}$)	Chlorophyll <i>b</i> ($\mu\text{g}/\text{L}$)
August											
13	1446	3.6	700	304	7.3	24.3	--	7.1	85	--	--
13	1446	6.9	700	304	7.3	24.2	--	7.1	85	--	--
13	1445	10	700	304	7.3	24.2	--	7.1	85	--	--
13	1444	16	700	306	7.3	24.2	--	7.1	85	--	--
13	1442	23	700	307	7.3	24.2	--	7.1	85	--	--
13	1442	30	700	306	7.3	24.2	--	7.1	85	--	--
13	1440	36	700	307	7.3	24.2	--	7.1	85	--	--
13	1438	43	700	306	7.3	24.2	--	7.1	85	--	--
13	1433	3.6	900	312	7.3	24.3	--	7.1	85	--	--
13	1432	6.9	900	312	7.3	24.3	--	7.1	85	--	--
13	1431	9.8	900	313	7.3	24.2	--	7.1	85	--	--
13	1430	16	900	314	7.3	24.2	--	7.1	84	--	--
13	1430	23	900	314	7.3	24.2	--	7.1	84	--	--
13	1429	30	900	315	7.3	24.2	--	7.1	84	--	--
13	1428	36	900	314	7.4	24.2	--	7.1	84	--	--
13	1427	43	900	315	7.4	24.2	--	7.1	84	--	--
13	1426	48	900	315	7.4	24.2	--	7.1	84	--	--
September											
15	1822	3.9	200	401	7.4	25.0	--	6.9	83	--	--
15	1821	6.9	200	400	7.3	24.5	--	6.7	80	--	--
15	1821	10	200	400	7.3	24.5	--	6.7	80	--	--
15	1820	16	200	400	7.3	24.4	--	6.7	80	--	--
15	1819	23	200	400	7.3	24.4	--	6.7	80	--	--
15	1818	30	200	399	7.4	24.4	--	6.7	80	--	--
15	1817	38	200	401	7.4	24.4	--	6.7	80	--	--
15	1746	3.6	500	400	7.4	25.0	--	7.2	87	0.5	0.1
15	1745	6.6	500	400	7.4	24.8	--	7.0	85	--	--
15	1745	9.8	500	401	7.4	24.5	--	6.8	81	--	--
15	1744	16	500	400	7.3	24.5	--	6.7	80	.7	.1
15	1744	22	500	400	7.3	24.5	--	6.7	80	--	--
15	1743	30	500	400	7.4	24.5	--	6.7	80	--	--
15	1741	36	500	399	7.3	24.5	--	6.7	80	.6	.1
15	1741	39	500	398	7.4	24.5	--	6.7	80	--	--

Table 30.--Water-quality data for station 390721081443001, Ohio River at river mile 203.6, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (µg/L)	Chlorophyll <i>b</i> (µg/L)
September											
15	1757	3.6	700	398	7.4	24.9	--	7.1	86	--	--
15	1757	6.9	700	399	7.4	24.9	--	7.1	87	--	--
15	1756	10	700	399	7.4	24.9	--	7.1	86	--	--
15	1755	16	700	398	7.4	24.5	--	6.7	81	--	--
15	1755	22	700	399	7.4	24.5	--	6.7	81	--	--
15	1754	30	700	399	7.3	24.5	--	6.7	80	--	--
15	1753	36	700	398	7.3	24.5	--	6.7	80	--	--
15	1753	42	700	398	7.4	24.5	--	6.7	81	--	--
15	1752	45	700	397	7.4	24.5	--	6.7	81	--	--
15	1811	3.6	900	397	7.4	24.6	--	6.8	82	--	--
15	1810	6.6	900	396	7.4	24.6	--	6.8	82	--	--
15	1809	10	900	397	7.4	24.6	--	6.8	82	--	--
15	1808	17	900	397	7.3	24.6	--	6.7	81	--	--
15	1808	23	900	397	7.4	24.6	--	6.7	81	--	--
15	1807	30	900	399	7.4	24.6	--	6.7	81	--	--
15	1806	36	900	396	7.4	24.6	--	6.7	81	--	--
15	1806	43	900	397	7.3	24.6	--	6.7	81	--	--
15	1805	49	900	396	7.4	24.6	--	6.7	81	--	--
18	1241	3.0	200	398	7.3	24.4	--	6.9	84	--	--
18	1241	6.2	200	399	7.3	24.4	--	6.8	83	--	--
18	1242	9.5	200	396	7.3	24.4	--	6.8	83	--	--
18	1242	16	200	400	7.3	24.4	--	6.8	83	--	--
18	1243	22	200	397	7.3	24.4	--	6.8	83	--	--
18	1243	26	200	399	7.3	24.4	--	6.7	82	--	--
18	1215	3.3	500	398	7.3	24.5	3.5	6.7	82	1.1	0.1
18	1214	6.9	500	397	7.3	24.5	--	6.7	82	--	--
18	1215	10	500	397	7.3	24.5	--	6.7	82	--	--
18	1214	16	500	398	7.3	24.5	--	6.7	82	1.2	.1
18	1213	23	500	397	7.3	24.5	--	6.7	82	--	--
18	1212	30	500	399	7.3	24.5	--	6.7	82	--	--
18	1211	38	500	399	7.3	24.4	--	6.7	82	1.4	.1
18	1223	3.9	700	397	7.3	24.5	--	6.7	86	--	--
18	1224	6.2	700	398	7.3	24.5	--	6.7	81	--	--
18	1225	9.8	700	397	7.3	24.5	--	6.7	81	--	--
18	1225	16	700	397	7.3	24.5	--	6.7	81	--	--
18	1226	22	700	397	7.3	24.5	--	6.7	81	--	--
18	1226	31	700	399	7.3	24.5	--	6.7	81	--	--
18	1228	36	700	397	7.3	24.5	--	6.7	81	--	--
18	1228	42	700	397	7.3	24.5	--	6.6	81	--	--

Table 30.--Water-quality data for station 390721081443001, Ohio River at river mile 203.6, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (μS/cm)	pH (standard units)	Temperature, water (°C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (μg/L)	Chlorophyll <i>b</i> (μg/L)
September											
18	1237	3.0	900	396	7.3	24.5	--	6.3	77	--	--
18	1237	6.2	900	397	7.3	24.5	--	6.3	77	--	--
18	1236	9.5	900	396	7.3	24.5	--	6.3	77	--	--
18	1236	16	900	395	7.3	24.5	--	6.3	77	--	--
18	1235	22	900	396	7.3	24.5	--	6.3	77	--	--
18	1235	29	900	397	7.3	24.5	--	6.4	78	--	--
18	1234	36	900	393	7.3	24.5	--	6.3	77	--	--
18	1234	43	900	397	7.3	24.5	--	6.4	78	--	--
18	1232	49	900	397	7.3	24.5	--	6.2	76	--	--
21	1311	3.3	200	412	7.4	24.3	--	6.7	83	--	--
21	1311	6.6	200	412	7.4	24.3	--	6.7	81	--	--
21	1312	10	200	412	7.4	24.3	--	6.7	81	--	--
21	1312	16	200	411	7.3	24.2	--	6.6	80	--	--
21	1313	23	200	412	7.3	24.1	--	6.5	79	--	--
21	1313	29	200	410	7.3	24.0	--	6.4	77	--	--
21	1314	31	200	410	7.3	24.0	--	6.3	76	--	--
21	1320	3.3	500	412	7.3	24.2	4.5	6.5	79	2.2	0.4
21	1320	6.6	500	412	7.3	24.2	--	6.5	79	--	--
21	1319	10	500	412	7.3	24.2	--	6.5	79	--	--
21	1319	17	500	412	7.3	24.1	--	6.5	79	1.8	.2
21	1318	23	500	411	7.3	24.1	--	6.5	78	--	--
21	1318	30	500	411	7.3	24.0	--	6.4	77	--	--
21	1317	36	500	411	7.3	23.9	--	6.3	77	1.5	.2
21	1316	38	500	411	7.3	24.0	--	6.4	77	--	--
21	1329	3.0	700	412	7.3	24.2	--	6.5	79	--	--
21	1328	6.6	700	412	7.3	24.1	--	6.4	78	--	--
21	1328	9.8	700	412	7.3	24.1	--	6.4	78	--	--
21	1327	16	700	412	7.3	24.1	--	6.4	78	--	--
21	1327	23	700	412	7.3	24.0	--	6.4	77	--	--
21	1326	30	700	412	7.3	24.0	--	6.3	77	--	--
21	1326	36	700	412	7.3	24.0	--	6.3	77	--	--
21	1325	44	700	412	7.3	24.0	--	6.3	77	--	--

Table 30.--Water-quality data for station 390721081443001, Ohio River at river mile 203.6, June to September 1992--Continued

Date	Time	Sampling depth (ft)	Sample location (ft from left bank)	Specific conductance (μ S/cm)	pH (standard units)	Temperature, water ($^{\circ}$ C)	Transparency (Secchi disk) (ft)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Chlorophyll <i>a</i> (μ g/L)	Chlorophyll <i>b</i> (μ g/L)
September											
21	1307	3.3	900	411	7.3	24.1	--	6.4	78	--	--
21	1306	9.8	900	413	7.3	24.0	--	6.4	77	--	--
21	1306	16	900	412	7.3	24.0	--	6.4	77	--	--
21	1305	23	900	413	7.3	24.0	--	6.3	77	--	--
21	1304	29	900	411	7.3	24.0	--	6.4	77	--	--
21	1303	36	900	414	7.3	24.0	--	6.3	77	--	--
21	1305	43	900	410	7.3	24.0	--	6.3	77	--	--
21	1302	50	900	414	7.3	24.0	--	6.3	77	--	--

Table 31. --Daily mean water temperature at station 392145081185601, from the Willow Island Dam (upstream) continuous-recording water-quality monitor, June to November 1992

[--, value not determined]

Day	Daily mean water temperature, in degrees Celsius					
	June	July	August	September	October	November
1	--	25.6	23.6	25.1	19.4	--
2	--	--	23.6	24.6	18.9	13.5
3	--	--	23.2	23.9	18.9	--
4	--	--	22.6	24.2	18.6	13.6
5	--	--	22.5	24.0	18.4	13.1
6	--	--	22.7	24.0	18.0	12.3
7	--	26.1	23.2	24.4	18.1	11.8
8	--	26.1	23.2	--	18.0	11.4
9	--	26.5	23.2	--	17.9	11.0
10	22.7	26.8	23.6	--	17.7	10.7
11	23.0	26.9	23.8	--	17.6	10.5
12	23.7	27.0	23.8	--	17.7	10.4
13	23.8	27.1	--	--	17.6	10.2
14	23.9	27.3	--	--	17.7	9.7
15	24.3	27.5	--	--	17.8	8.6
16	24.5	27.7	--	--	17.9	8.2
17	24.6	27.6	--	--	18.0	--
18	24.7	27.4	23.6	--	17.0	8.0
19	24.6	27.2	23.6	--	16.2	8.2
20	24.5	27.1	23.6	--	16.2	8.2
21	24.1	26.9	23.7	--	15.8	8.2
22	23.7	26.5	23.8	--	--	8.1
23	23.8	26.4	24.1	--	--	8.1
24	23.7	25.6	24.3	--	--	--
25	23.8	25.1	25.0	21.4	--	7.9
26	23.9	24.5	25.4	20.8	14.5	8.2
27	24.0	23.9	25.8	20.8	14.7	8.4
28	24.4	23.4	25.7	20.9	14.6	8.6
29	24.4	--	25.3	20.7	14.4	8.4
30	25.2	--	25.3	20.0	14.1	8.2
31	--	--	25.2	--	13.9	--
Maximum mean value	25.2	27.7	25.8	25.1	19.4	13.6
Minimum mean value	22.7	23.4	22.5	20.0	13.9	7.9

Table 32.--*Daily mean dissolved-oxygen concentrations at station 392145081185601, from the Willow Island Dam (upstream) continuous-recording water-quality monitor, June to November 1992*

[--, value not determined]

Day	Daily mean dissolved-oxygen concentration, in milligrams per liter					
	June	July	August	September	October	November
1	--	7.9	7.6	6.6	8.8	--
2	--	--	7.7	6.7	9.2	10.6
3	--	--	7.6	7.1	9.1	--
4	--	--	7.6	7.2	9.0	10.5
5	--	--	7.8	7.2	9.4	10.7
6	--	--	7.9	7.2	9.1	11.1
7	--	--	--	7.3	9.2	10.8
8	--	6.9	7.9	--	9.7	10.4
9	--	7.2	7.8	--	9.0	10.7
10	7.6	--	--	--	9.1	10.8
11	7.4	--	--	--	9.0	11.0
12	7.3	6.8	7.5	--	9.0	11.2
13	7.0	--	--	--	9.0	11.2
14	6.8	6.4	--	--	8.9	11.3
15	6.8	6.2	--	--	9.1	11.6
16	6.7	6.3	--	--	9.1	11.7
17	7.1	--	--	--	9.1	--
18	7.3	6.9	7.2	--	9.1	12.1
19	6.8	7.0	7.2	--	8.8	--
20	6.8	6.7	7.3	--	9.0	--
21	6.6	7.1	7.3	--	8.7	--
22	--	7.1	7.5	--	--	--
23	--	7.2	7.3	--	--	--
24	7.1	7.3	7.3	--	--	--
25	7.2	7.4	7.8	8.5	--	--
26	7.2	7.6	7.8	8.7	10.2	--
27	7.4	7.6	7.8	9.1	10.2	--
28	7.8	7.7	7.3	9.6	10.3	--
29	7.4	--	6.7	9.9	10.4	--
30	8.2	--	6.6	--	10.4	--
31	--	--	6.5	--	10.6	--
Maximum mean value	8.2	7.9	7.9	9.9	10.6	12.1
Minimum mean value	6.6	6.2	6.5	6.6	8.7	10.4

Table 33.--Daily median pH at station 392145081185601, from the Willow Island Dam (upstream) continuous-recording water-quality monitor, June to November 1992

[--, value not determined]

Day	Daily median pH, in standard units					
	June	July	August	September	October	November
1	--	7.3	7.3	7.5	--	--
2	--	--	7.2	7.5	--	7.4
3	--	--	7.2	7.4	--	--
4	--	--	7.2	7.2	--	7.3
5	--	--	7.2	7.2	--	7.3
6	--	--	7.2	7.2	--	7.3
7	--	7.1	7.1	7.2	--	7.2
8	--	7.2	7.1	--	--	7.3
9	--	7.2	7.1	--	--	7.3
10	7.2	7.1	7.1	--	--	7.3
11	7.2	7.1	7.1	--	--	7.3
12	7.2	7.2	7.1	--	--	7.3
13	7.1	7.1	--	--	--	7.3
14	7.1	7.1	--	--	--	7.3
15	7.1	7.1	--	--	--	7.3
16	7.1	7.1	--	--	--	7.3
17	7.0	7.2	--	--	--	--
18	7.1	7.3	7.2	--	--	7.3
19	7.0	7.3	7.2	--	--	7.4
20	7.1	7.2	7.2	--	--	7.3
21	7.1	7.2	7.2	--	--	7.3
22	7.2	7.1	7.3	--	--	7.3
23	7.1	7.1	7.3	--	--	7.3
24	7.1	7.1	7.3	--	--	--
25	7.1	7.1	7.4	7.3	--	7.4
26	7.2	7.1	7.4	7.2	7.4	7.4
27	7.1	7.2	7.4	7.2	7.4	7.4
28	7.2	7.2	7.3	7.2	7.4	7.4
29	7.1	--	7.3	7.3	7.4	7.4
30	7.3	--	7.3	7.3	7.4	7.4
31	--	--	7.5	--	7.5	--
Maximum median value	7.3	7.3	7.5	7.5	7.5	7.4
Minimum median value	7.0	7.1	7.1	7.2	7.4	7.2

Table 34.--*Daily mean specific conductance at station 392145081185601, from the Willow Island Dam (upstream) continuous-recording water-quality monitor, June to November 1992*

[--, value not determined]

Day	Daily mean specific conductance, in microsiemens per centimeter					
	June	July	August	September	October	November
1	--	495	300	365	264	--
2	--	--	292	360	259	332
3	--	--	288	364	258	--
4	--	--	277	375	--	318
5	--	--	271	392	253	308
6	--	--	262	394	255	307
7	--	497	252	384	281	321
8	--	515	248	--	284	335
9	--	520	245	--	284	344
10	386	543	246	--	284	345
11	398	520	249	--	287	329
12	408	513	248	--	292	309
13	413	500	--	--	297	304
14	417	530	--	--	297	289
15	423	541	--	--	301	281
16	426	530	--	--	306	286
17	428	526	--	--	304	--
18	429	537	285	--	304	277
19	437	528	280	--	306	281
20	447	--	277	--	308	276
21	450	438	286	--	317	260
22	446	401	295	--	--	269
23	448	344	300	--	--	269
24	463	325	303	--	--	--
25	476	304	305	353	--	278
26	471	--	298	331	337	280
27	476	261	292	315	339	288
28	480	252	301	299	333	291
29	488	--	327	280	324	287
30	494	--	312	277	321	273
31	--	--	364	--	320	--
Maximum mean value	494	543	364	394	339	345
Minimum mean value	386	252	245	277	253	260

Table 35.--Daily mean water temperature at station 392125081193601, from the Willow Island Dam (downstream) continuous-recording water-quality monitor, June to November 1992

[--, value not determined]

Day	Daily mean water temperature, in degrees Celsius					
	June	July	August	September	October	November
1	--	25.2	23.6	25.0	19.4	--
2	--	--	23.7	24.5	19.0	--
3	--	--	23.3	23.9	18.8	--
4	--	--	22.7	23.9	18.6	13.6
5	--	--	22.5	24.0	18.3	13.0
6	--	--	22.7	24.0	18.0	--
7	--	26.1	23.0	24.3	17.9	--
8	--	26.1	23.2	--	17.9	--
9	--	26.4	23.3	--	17.8	--
10	22.4	26.8	23.5	--	17.6	--
11	22.9	26.9	23.8	--	17.7	10.6
12	23.5	27.0	23.8	--	17.6	10.5
13	23.8	27.0	--	--	17.6	10.2
14	23.9	27.3	--	--	17.5	9.6
15	24.2	27.5	--	--	17.7	8.6
16	24.4	27.7	--	--	17.6	8.2
17	24.5	27.6	--	--	17.2	8.1
18	24.6	27.4	23.5	--	16.7	8.2
19	24.5	27.2	23.6	--	16.2	8.3
20	24.4	27.1	23.5	--	16.0	--
21	24.0	26.8	23.6	--	15.7	--
22	23.6	26.4	23.7	--	--	--
23	23.6	26.3	24.0	--	--	--
24	23.7	25.6	24.3	--	--	--
25	23.7	25.1	24.8	21.4	--	--
26	23.8	24.6	25.3	20.8	--	--
27	24.0	24.0	25.7	20.8	14.5	--
28	24.3	23.4	25.6	20.9	14.4	--
29	24.4	--	25.2	20.7	14.3	--
30	24.9	--	25.2	20.0	14.1	--
31	--	--	25.1	--	--	--
Maximum mean value	24.9	27.7	25.7	25.0	19.4	13.6
Minimum mean value	22.4	23.4	22.5	20.0	14.1	8.1

Table 36.--Daily mean dissolved oxygen concentrations at station 392125081193601, from the Willow Island Dam (downstream) continuous-recording water-quality monitor, June to November 1992

[--, value not determined]

Day	Daily mean dissolved-oxygen concentration, in milligrams per liter					
	June	July	August	September	October	November
1	--	7.7	8.1	6.9	8.9	--
2	--	--	8.1	6.9	8.9	--
3	--	--	8.0	7.1	8.9	--
4	--	--	--	7.1	9.0	10.2
5	--	--	8.0	7.0	9.0	10.5
6	--	--	--	6.9	9.1	--
7	--	7.3	8.1	6.9	9.2	--
8	--	7.2	--	--	9.1	--
9	--	7.3	8.0	--	9.1	--
10	7.7	7.0	--	--	9.2	--
11	7.6	6.8	7.8	--	9.1	11.2
12	7.3	6.7	7.8	--	9.1	11.4
13	7.1	6.4	--	--	9.1	11.3
14	7.0	6.3	--	--	9.0	11.5
15	7.0	6.2	--	--	8.9	11.8
16	6.9	6.4	--	--	8.8	11.8
17	7.0	6.5	--	--	8.8	11.9
18	7.3	6.8	7.7	--	8.9	11.9
19	7.2	6.9	7.8	--	8.8	--
20	7.0	6.6	7.8	--	8.8	--
21	6.6	6.8	7.9	--	8.7	--
22	--	6.8	7.8	--	8.7	--
23	--	6.9	7.8	--	--	--
24	6.6	7.1	7.8	--	--	--
25	6.8	7.3	8.0	7.9	--	--
26	7.1	7.6	8.1	7.9	10.1	--
27	7.5	7.7	7.9	8.1	10.1	--
28	7.8	--	7.6	8.3	10.1	--
29	7.5	--	7.0	8.4	10.1	--
30	7.8	--	6.8	8.7	10.2	--
31	--	--	6.7	--	--	--
Maximum mean value	7.8	7.7	8.1	8.7	10.2	11.9
Minimum mean value	6.6	6.2	6.7	6.9	8.7	10.2

Table 37.--Daily median pH at station 392125081193601, from the Willow Island Dam (downstream) continuous-recording water-quality monitor, June to November 1992

[--, value not determined]

Day	Daily median pH, in standard units					
	June	July	August	September	October	November
1	--	--	7.1	7.3	7.1	--
2	--	--	7.0	7.2	7.1	--
3	--	--	7.0	7.2	7.1	--
4	--	--	7.0	7.2	7.1	7.6
5	--	--	7.0	7.2	7.2	7.6
6	--	--	7.0	7.2	7.2	--
7	--	7.1	7.1	7.2	7.2	--
8	--	7.1	7.1	--	7.3	--
9	--	7.1	7.1	--	7.3	--
10	7.1	7.1	7.1	--	7.3	--
11	7.1	7.0	7.1	--	7.3	7.3
12	7.1	7.1	7.0	--	7.3	7.3
13	7.1	7.1	--	--	7.4	7.3
14	7.1	7.2	--	--	7.4	7.3
15	7.1	7.2	--	--	7.4	7.4
16	7.1	7.2	--	--	7.4	7.4
17	7.1	7.1	--	--	7.4	7.3
18	--	7.2	7.1	--	7.4	7.3
19	7.1	7.2	7.1	--	7.4	--
20	7.1	7.2	7.1	--	7.4	--
21	7.0	7.2	7.1	--	7.5	--
22	7.0	7.1	7.1	--	--	--
23	7.0	7.1	7.2	--	--	--
24	7.1	7.0	7.2	--	--	--
25	7.1	--	7.2	7.3	--	--
26	7.1	--	7.2	7.2	7.5	--
27	7.1	7.2	7.2	7.2	7.5	--
28	7.2	7.2	7.1	7.3	7.5	--
29	7.1	--	7.1	7.3	7.5	--
30	--	--	7.1	7.3	7.6	--
31	--	--	7.2	--	--	--
Maximum median value	7.2	7.2	7.2	7.3	7.6	7.6
Minimum median value	7.0	7.0	7.0	7.2	7.1	7.3

Table 38.--Daily mean specific conductance at station 392125081193601, from the Willow Island Dam (downstream) continuous-recording water-quality monitor, June to November 1992

[--, value not determined]

Day	Daily mean specific conductance, in microsiemens per centimeter					
	June	July	August	September	October	November
1	--	488	301	372	268	--
2	--	--	291	365	260	--
3	--	--	289	364	258	--
4	--	--	277	368	252	--
5	--	--	271	383	253	--
6	--	--	262	389	262	--
7	--	503	252	380	274	--
8	--	522	249	--	282	--
9	--	524	244	--	283	--
10	389	546	245	--	283	--
11	402	525	248	--	286	--
12	410	517	248	--	292	--
13	415	500	--	--	296	--
14	418	523	--	--	296	--
15	425	536	--	--	300	--
16	430	528	--	--	205	--
17	432	506	--	--	303	--
18	431	515	285	--	304	--
19	436	512	280	--	302	--
20	445	481	277	--	307	--
21	451	451	284	--	319	--
22	448	433	294	--	--	--
23	450	373	299	--	--	--
24	463	342	303	--	--	--
25	478	--	305	356	--	--
26	475	--	301	337	--	--
27	479	--	300	318	--	--
28	483	246	305	303	--	--
29	491	--	331	283	--	--
30	494	--	316	274	--	--
31	--	--	367	--	--	--
Maximum mean value	494	546	367	389	319	--
Minimum mean value	389	246	244	274	252	--