# SELECTED WATER-QUALITY DATA FOR THE LOWER MISSISSIPPI RIVER, BONNET CARRÉ SPILLWAY, AND LAKE PONTCHARTRAIN AREA, LOUISIANA, APRIL THROUGH JUNE 1994 AND 1974-84

By Dennis K. Demcheck, Charles R. Garrison, and Benton D. McGee

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Gordon P. Eaton, Director

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For additional information write to:

Edward H. Martin
District Chief
U.S. Geological Survey
3535 S. Sherwood Forest Blvd., Suite 120
Baton Rouge, LA 70816
E-mail: dc_la@usgs.gov
Telephone: (504) 389-0281

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## CONVERSION FACTORS AND ABBREVIATED WATER-QUALITY UNITS

| Multiply | By | To obtain |
|---|---|---|
| inch (in.) | 25.4 | millimeter |
| foot (ft) | 0.3048 | meter |
| mile (mi) | 1.609 | kilometer |
| square mile ($mi^2$) | 2.590 | square kilometer |
| gallon (gal) | 0.003785 | cubic meter |
| pound (lb) | 0.4536 | kilogram |
| foot per second (ft/d) | 0.3048 | meter per second |
| cubic foot per second ($ft^3/s$) | 0.02832 | cubic meter per second |

Temperature in degrees Celsius (°C) can be converted to degrees Fahrenheit (°F) as follows: °F = 1.8(°C +32).

**Abbreviated water-quality units:**

liter (L)
micrograms per gram (µg/g)
micrograms per liter (µg/L)
microsiemens per centimeter (µS/cm)
milligrams per liter (mg/L)
milliliter (mL)
millimeter (mm)

# SELECTED WATER-QUALITY DATA FOR THE LOWER MISSISSIPPI RIVER, BONNET CARRÉ SPILLWAY, AND LAKE PONTCHARTRAIN AREA, LOUISIANA, APRIL THROUGH JUNE 1994 AND 1974-84

*By* Dennis K. Demcheck, Charles R. Garrison, and Benton D. McGee

## ABSTRACT

An experimental release (inflow) of water from the Bonnet Carré Spillway into Lake Pontchartrain was conducted from April 20 to June 28, 1994, to determine the potential effects of Mississippi River water on the quality of water in Lake Pontchartrain. The study centered on the 5- to 6-mile-long Bonnet Carré Spillway and the southwestern area of Lake Pontchartrain directly affected by the experimental release. Four spillway bays were opened on May 16, 1994. Additional bays were opened during the following week as the river stage dropped, to ensure a discharge of at least 8,000 cubic feet per second ($ft^3/s$). The bays were closed on May 26-27. During the experimental release, the measured discharge ranged from 8,410 to 14,000 $ft^3/s$, with an average discharge of 9,956 $ft^3/s$. A total of 43 sites were sampled for water-quality. They included 1 site on the Mississippi River at the entrance to the spillway, 5 sites within the spillway, 16 sites in Lake Pontchartrain near the spillway, and 21 additional sites around the perimeter of Lake Pontchartrain. Physical properties were measured and water-quality data were collected from April 20 to June 28, 1994. Vertical profiles of physical and chemical characteristics including depth, water temperature, pH, dissolved oxygen, specific conductance, and salinity were taken at about 200 additional sites.

The results of the sample analyses indicated that nutrient and triazine herbicide concentrations remained constant as water moved through the spillway. Mississippi River water is lower in dissolved solids concentrations than Lake Pontchartrain water. A freshwater plume extended 4-6 miles into the lake and had well-defined boundaries. On May 13, the temperature of the river water at the entrance to the lake was 23.7 degrees Celsius (°C), over 4 °C colder than the lake water (27.8 °C), causing the river water to move underneath the lake water. As the water temperatures equilibrated, mixing began.

Concentrations of all water-quality constituents analyzed, with the exceptions of antimony in bottom material and atrazine in water, were below all established Federal and State criteria. The circulation studies on May 23-25 indicated that the water moved in a northerly to northwesterly direction, and responded within 12 hours to changes in wind direction.

A statistical summary of 28 selected surface-water-quality constituents for the period 1974-1984 at three sites in Lake Pontchartrain was compared to data summaries from the April 16-May 24, 1979, opening of the Bonnet Carré Spillway with a peak discharge of 250,000 $ft^3/s$. The most substantial change was the increase in the lake of total nitrite plus nitrate as oxygen during the opening. Median (50 percentile) nitrite plus nitrate concentrations increased from 0.02 to 1.1 mg/L (milligrams per liter) 2.2 miles northwest of Chef Menteur, from <0.10 to 0.22 mg/L at the mouth of Bayou Lacombe, and from 0.16 to 0.23 mg/L to the mouth of Pass Manchac.

## INTRODUCTION

The Bonnet Carré Spillway is located in an area connecting the southwest shore of Lake Pontchartrain to the Mississippi River. This is an area where the river has historically broken through its natural levee during high water. The concrete-and-wood spillway structure located on the left bank of the Mississippi River was constructed in the 1930's to relieve the pressure on the manmade levees and, therefore, lessen the threat of flooding downstream, especially at New Orleans, Louisiana.

The U.S. Army Corps of Engineers (COE) was authorized by Congress in 1976 to study the feasibility of "providing freshwater into Lakes Maurepas, Pontchartrain, Borgne, and Mississippi Sound areas in the interest of improving the wildlife and fisheries of the area" (Jack Fredine, U.S. Army Corps of Engineers, written commun., 1996). The proposed diversion will route water from the Mississippi River to the sound through the Bonnet Carré Spillway and Lake Pontchartrain, a 629-$mi^2$ lake. The objective of the proposed diversion is to benefit Lake Pontchartrain, the Biloxi marshes, and Mississippi Sound. The reduction of peak salinities in the sound is specifically intended to increase oyster production. An environmental impact statement was prepared in 1984, and the project was authorized for construction in 1988. The State of Mississippi contributed 5 percent of the cost of this project. However, private organizations and fishermen's groups expressed reservations about the project. The groups are concerned that production of finfish and shellfish in Lake Pontchartrain will decline, and that increased turbidity and eutrophication will degrade the suitability of the lake for recreational uses. In response to these concerns, a Reanalysis Committee was formed in January 1994, composed of a Technical Team and a Steering Group. The Technical Team, consisting of members of the COE, U.S. Environmental Protection Agency (USEPA), Louisiana Department of Wildlife and Fisheries (DWF), Louisiana State University (LSU), and the Lake Pontchartrain Basin Foundation (LPBF), was designated to compile all the information needed to assess the risks and benefits of the diversion, and collect additional data if necessary. They presented the results and their

recommendations to the Steering Group, composed of representatives from the COE, USEPA, LPBF, the Coalition to Restore Coastal Louisiana, representatives of the State of Mississippi, and the Louisiana Governor's Office of Coastal Activities. The Steering Group was directed to make the final recommendations on proceeding with, modifying, or halting the proposed diversion.

In early April 1994, the Reanalysis Committee agreed that an opportunity existed to gather data relevant to these concerns. The Mississippi River in April 1994 was above 17 ft at the COE staff gage at the spillway structure, allowing water to leak through the structure. An experimental opening of the spillway, simulating the diversion, was feasible. Accordingly, the COE proposed to open the spillway at a controlled discharge of 15,000 $ft^3/s$ for 2 weeks. The initial operating plan was opposed by fishermen's groups. The fishermen stated that this amount of freshwater would be detrimental to the spring shrimp harvest. The Reanalysis Committee modified the plan to reduce the experimental release to 8,000 $ft^3/s$ for 10 days.

Four major work elements for the 1994 diversion were designed by the Technical Team and approved by the Reanalysis Committee. They were to (1) investigate changes in Mississippi River water as it passes through the Bonnet Carré Spillway, (2) examine the probability of accelerated eutrophication in Lake Pontchartrain, (3) determine the occurrence and distribution of toxic compounds from the Mississippi River entering the lake, and (4) determine short-term mixing patterns of the freshwater entering the lake.

## Purpose and Scope

This report presents the results of physical measurements and analyses of water-quality samples collected from the Mississippi River, Bonnet Carré Spillway, and Lake Pontchartrain from April 20 to June 28, 1994. Most of the sampling sites were in the Bonnet Carré Spillway and the southwestern area of Lake Pontchartrain directly affected by an experimental release of Mississippi River water into the lake. Samples also were collected from the Mississippi River at the entrance to the spillway. A total of 43 sites were sampled for water quality. Vertical profiles of physical and chemical-related properties including depth, water temperature, pH, dissolved oxygen, specific conductance, and salinity were taken at about 200 additional sites in order to delineate the freshwater plume.

Additionally, summaries of water-quality data collected during the opening of the Bonnet Carré Spillway in April through May 1979 are presented. These data are compared to pre-release and post-release statistical summaries of physical and chemical-related properties and water-quality constituents at three sites in Lake Pontchartrain. Maximum flows released during this period approached 250,000 $ft^3/s$.

The data will be useful in describing the water-quality effects of freshwater diversions into Lake Pontchartrain. The data also will aid in the planning and monitoring of other freshwater diversions throughout the Louisiana coastal zone.

## Description of Study Area

The study area, located in southeastern Louisiana, consists of a short segment of the Mississippi River, the Bonnet Carré Spillway, and Lake Pontchartrain (fig.1). Lake Pontchartrain is a 629-$mi^2$ lake that is connected to the Gulf of Mexico by way of the Rigolets and Chef Menteur Pass. The lake is shallow, ranging in depth from 6 to 17 ft, with an average depth of about 11 ft. Thirty-seven percent of the lake bottom is below 12 ft and contains 4.8 percent of the lake volume (Bryan and others, 1994). The reach of the Mississippi River sampled is located at the entrance to the Bonnet Carré Spillway structure, located in the southwestern area of Lake Pontchartrain. The spillway structure, more than 7,000 ft long, consists of 350 bays that can be opened to reduce the river stage at New Orleans.

## Data Collection

The reanalysis objectives were accomplished through the coordinated assistance of the USEPA, COE, Biological Resources Division (BRD) and Water Resources Division (WRD) of the U.S. Geological Survey (USGS), LSU, Louisiana DWF, Louisiana Department of Environmental Quality (DEQ), LPBF, and the Louisiana Governor's Office of Coastal Activities. The COE operated the spillway structure during the experimental release. The USGS measured discharge within the spillway and collected suspended-sediment and water-quality samples in the river, spillway, and Lake Pontchartrain. The samples were analyzed at a USEPA laboratory and a USGS laboratory. LSU analyzed the effects of overland flow and sediment deposition on water quality in the spillway. The analysis of data to determine the probability of accelerated eutrophication was performed by the BRD, and the dye study to determine short-term mixing was performed by the WRD, with assistance from DEQ.

The leakage from the spillway bays was measured on April 20 at a paved road about 300 ft downstream from the bays using a USGS pygmy current meter and a Price AA Standard current meter (Buchanan and Somers, 1969). During the experimental release, instantaneous discharge measurements were made in the Bonnet Carré Spillway at the U.S. Highway 61 bridge using a Price AA Standard current meter attached to a 30-lb sounding weight.

Suspended sediment was collected from the Mississippi River using a P-63 point sampler. Samples within the spillway were collected using either a DH-49 or DH-59 handheld depth-integrating sampler. In the lake or those areas of the spillway where water velocities were less than 1.5 ft/s, a weighted-bottle sampler was used. Sediment was split into total sand and total silt (<0.0625 mm) fractions according to methods described by Guy (1969).

Physical and chemical-related properties including depth, specific conductance, pH, oxidation-reduction potential, salinity, water temperature, and dissolved oxygen were measured at three depths (top, middle, and bottom) at about 200 sites, to delineate the freshwater plume entering the lake. Also, these properties were measured at 43 water-quality sampling sites in the Mississippi River, spillway, and lake. The top, middle, and bottom measurements were recorded in duplicate sequentially 1 minute apart or as soon as all reading stabilized at selected sites within and at the leading edge of the freshwater plume and at 10 sites near the major inflows into the lake. These duplicate measurements were made to document short-term changes in water quality.

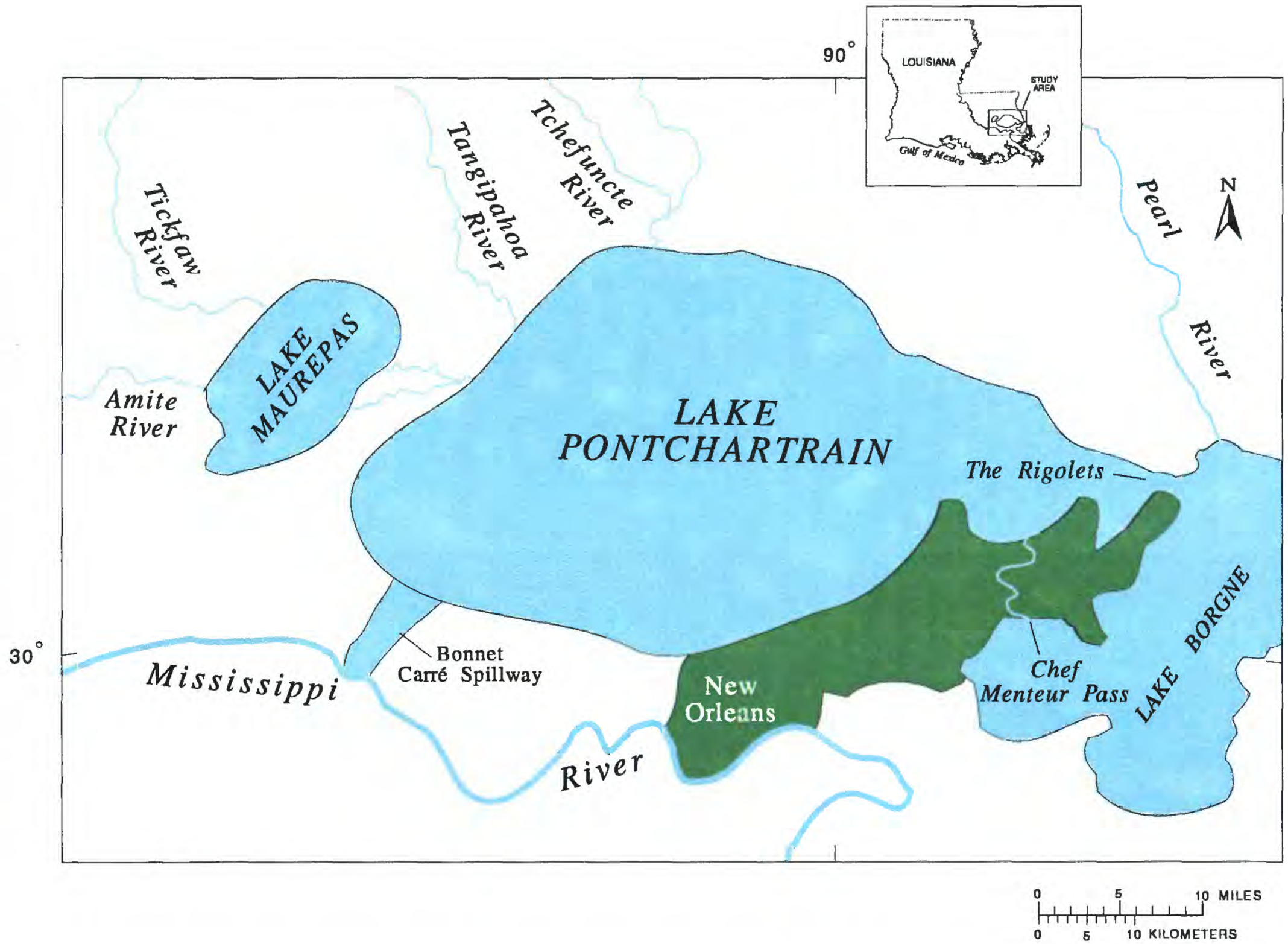



Figure 1. Study area in southeastern Louisiana.

Depth-integrated water-quality samples for analysis of inorganic constituents, nutrients, trace metals, and synthetic organic compounds were collected from water less than 20 ft deep and with velocities less than 1.5 ft/s using an epoxy-coated wire-basket sampler containing clean, narrow-mouth 1-L glass bottles that had been baked at 350 °C for 6 hours (to burn off any organic contaminants). Samples for volatile organic compounds were collected in clean, baked, 40-mL glass vials with Teflon septums. Vials were placed in stainless-steel sewage samplers that had been cleaned in the laboratory with pesticide-grade methanol and rinsed with de-ionized water. All water samples were preserved and, when required, filtered according to standard USGS methods (Britton and Greeson, 1988; Fishman and Friedman, 1989). All nutrient and organic samples were stored in coolers at 4 °C immediately upon collection, placed in refrigerators after processing, and shipped in coolers at 4 °C to the appropriate laboratories for analysis. Water and bottom-material samples to be analyzed for trace metals were collected and processed according to USGS cleaning protocols (Horowitz and others, 1994) that reduce the possibility of contamination of the sample from equipment or airborne contaminants. Bottom-material samples to be analyzed for synthetic organic compounds were collected using a Teflon-lined Petite Ponar grab sampler, and stored in clean, baked 1-L glass bottles at 4 °C until analysis.

Duplicate 1-L samples for phytoplankton analysis were collected at a standard depth of 1.5 ft below water surface. A 6-L horizontal Van Dorn lake sampler was used, allowing the duplicate 1-L samples to be split from a single 6-L sample. One duplicate sample was preserved using Lugol's solution and the other duplicate was preserved using 3 percent glutaraldehyde. Chlorophyll samples were collected at the same depth as the phytoplankton samples by filter trapping. Whole water was filtered through a 0.7-micron glass-fiber filter and the filter was shipped at 4 °C to the laboratory for analysis. The photic zone was measured at three points in each vertical profile using a Li-Cor Model Li-1000 photometer. Additional measurements of the photic zone were made using a Secchi disc.

Water samples were analyzed at a USGS laboratory for inorganic constituents, nutrients, chlorophyll-a and chlorophyll-b, organic carbon, and triazine herbicides at water-quality sites within the spillway, the freshwater plume extending into Lake Pontchartrain, and sites identifying water-quality conditions at major inflows into the lake. Inorganic constituents were analyzed according to methods in Fishman and Friedman (1989). Triazine herbicides, nutrients, and organic carbon were analyzed according to methods described by Wershaw and others (1987). Chlorophyll samples were analyzed according to methods in Britton and Greeson (1988).

Water and bottom-material samples from seven sites designed to identify water-quality effects of Mississippi River water on Lake Pontchartrain were analyzed by a USEPA laboratory. The samples were delivered to the laboratory using chain-of-custody procedures and documentation. Volatile organic compounds were analyzed using USEPA method 524.2 and semi-volatile organic compounds, including pesticides, were analyzed using USEPA method 625 (U.S. Environmental Protection Agency, 1979a, 1979b).

The short-term circulation study was done according to methods described by Kilpatrick and Wilson (1989). Thirty gallons of 20-percent rhodamine WT dye solution was slug-injected into a spillway canal just before the canal enters the lake. Dye samples were collected at three depths (top, middle, and bottom). Dye was tracked using a flow-through Turner fluorometer, and dye samples were analyzed using a Turner fluorometer located on-site in a USGS mobile

laboratory. The lowest level of detection of the fluorometer was 1 ppb (part per billion). Drifters composed of a 6-in. diameter yellow flotation disc and a red stem, with an attached waterproof, postage-paid card, were released simultaneously with the dye. A map of the lake was printed on the card, with instructions for the finder to mark on the map the location where the drifter was found (including latitude and longitude, if known) and mail the card to the USGS.

## Previous Studies

Lake Pontchartrain has been the subject of several studies. Shurtz and St. Pé (1984) investigated chemical and biological constituents that may create or enlarge hypoxic areas in the southern part of the lake. Overton and others (1984) studied organic chemicals in sediment, biota, and water from Lake Pontchartrain, predominantly in the southern part of the lake. Poirrier (1978), Stone (1980), and Sikora and Sikora (1982) investigated ecologic and hydrologic characteristics of the lake.

## Quality Control/Quality Assurance

Laboratory quality-assurance procedures included the determination of surrogate compound recoveries in each pesticide and synthetic organic compound sample. The surrogate added to each sample was used to monitor the extraction efficiency. Spike data also were used to compile recovery statistics from which percent recovery data could be established. Blanks were used to verify that the glassware and reagents used in sample preparation of pesticides and other synthetic organic compounds were free of contamination. Surrogates, laboratory blanks, and percent recovery data are on file and available from the USGS and USEPA.

Ten percent of the water-quality samples were quality-control duplicates. Additionally, all properties and constituents at the seven sites designed to identify water-quality effects of Mississippi River water on Lake Pontchartrain were analyzed in triplicate. This was done to document the amount of variability in replicate water-quality analyses, especially variability in synthetic organic compound analyses. Knowledge of the replicate variability within a site will aid in interpreting differences between sites.

## Acknowledgments

The authors express appreciation to the members of the Bonnet Carré Reanalysis Committee for their advice and support during the project design. The support of Myron Knudson and Bill Hathaway of the U.S. Environmental Protection Agency and Jack Fredine of the U.S. Army Corps of Engineers was critical in the allocation of resources. Additional thanks are expressed to Zahir "Bo" Bolourchi, Chief of the Water Resources Section, Louisiana Department of Transportation and Development, for support in the compilation and production of the 1979 statistical summaries.

## SELECTED WATER-QUALITY DATA, APRIL THROUGH JUNE 1994

The potential effects of the proposed Mississippi River diversion on toxic contamination, circulation patterns, and trophic conditions in Lake Pontchartrain are poorly understood. The information needed to evaluate these effects can be separated into two components: the physical and chemical properties of Mississippi River water as it flows through the Bonnet Carré Spillway and adjacent wetlands, and the overall effects of the Mississippi River on the circulation patterns and water quality of Lake Pontchartrain.

### Physical and Chemical Characterization of Water from the Bonnet Carré Spillway Diversion

Four spillway bays were opened on May 16, 1994. As the river stage decreased during the following week, additional bays were opened to ensure a discharge of at least 8,000 $ft^3/s$. The bays were closed on May 26-27.

Instantaneous discharge measurements that are listed below were made within the Bonnet Carré spillway before, during, and after the experimental release.

| Date | Instantaneous discharge, in cubic feet per second |
|---|---|
| **Before experimental release** | |
| **April 20** | 878 |
| **May 11** | 8,740 |
| **May 15** | 7,300 |
| **During release** | |
| **May 17** | 8,740 |
| **May 18** | 8,630 |
| **May 20** | 8,410 |
| **May 23** | 10,000 |
| **May 25** | 14,000 |
| **After release** | |
| **May 31** | 11.2 |

On April 20, shortly after the spillway structure began to leak, discharge was measured at 878 $ft^3/s$. This leakage is a result of gaps between the twenty 12-inch square, 10-ft high removable wooden beams that compose each of the 350 bays in the structure. During normal flood-control operation of the spillway, with all 350 bays open, a maximum of 250,000 $ft^3/s$ can be released by the structure. During the release, discharges ranged from 8,740 to 14,000 $ft^3/s$, and averaged 9,956 $ft^3/s$. On May 31, discharge had decreased to 11.2 $ft^3/s$.

Ten sites within the spillway were sampled April 20, 1994 (fig. 2). The sites were chosen to determine the effects of overland flow on suspended-sediment concentrations (table 1, at back) as Mississippi River water moved through the spillway. The spillway is a multi-use area with a commercial sandhauling operation and recreational activities such as fishing and crawfishing; therefore, a network of roads, embankments, canals, and ditches greatly disrupted uniform overland flow through the spillway. On April 20, the discharge through the spillway was 878 $ft^3/s$. Water samples were collected at five sites within the spillway (fig. 3) during the experimental release, on May 18 and 26, and analyzed for inorganics, nutrients, physical measurements, suspended sediment, phytoplankton, and triazine herbicides. Although the amounts of water that moved overland as compared to amounts through channels is unknown, apparently most of the water moved quickly and through channels. The data indicated (table 2, at back) that nutrient and triazine herbicide concentrations remained constant during the transit through the spillway.

## Physical and Chemical Characterization of Water from Lake Pontchartrain

Five delineation surveys of the freshwater plume entering Lake Pontchartrain were made between May 13 and May 20, 1994. About 200 vertical profiles measured temperature, pH, dissolved oxygen, specific conductance, and salinity at the top, middle, and bottom of the lake (table 3, at back). Locations were determined using Global Positioning System (GPS) equipment. The plume had well-defined boundaries, and extended about 4-5 mi into the lake. On May 13, the river water temperature at the entrance to the lake was 23.7 °C, over 4 degrees colder than the lake water (27.8 °C.), causing the river water to move underneath the lake water. As the water temperatures equilibrated, mixing began.

The leading edge of a freshwater-saltwater interface has been shown (Lohrenz and others, 1990; Largier, 1993) to be an area of enhanced primary productivity, as nutrient-rich freshwater mixes with resident estuarine algal communities. Three sites at the leading edge were sampled on May 18 and 27 (fig. 4). Water samples were analyzed for inorganics, nutrients, triazine herbicides, and physical and chemical-related properties (temperature, pH, dissolved oxygen, specific conductance, and salinity); see table 4 (at back). Five sites within the plume were sampled on May 19 (fig. 5). The area was resampled June 13 as the plume dissipated. Constituents sampled (table 4) were the same as at the leading edge sites.

The USGS collected water and bottom material from seven sites and bottom material along a transect to determine the water quality of the Mississippi River and its potential effects upon the lake (fig. 6). One site was located in the river at the entrance to the spillway, one site was located in the spillway, and five sites were located in the lake within and extending out from the plume. A comprehensive set of priority pollutants, trace metals, pesticides, inorganic constituents, and nutrients were analyzed from both the water column and bottom material (table 5, at back). Additionally, bottom sediments were analyzed for samples collected at 19 sites at 0.25-mi intervals (fig. 6; transect) in a straight line extending into the lake (table 6, at back). Results of the Mississippi River analysis indicated that atrazine in water (2.04-2.24 µg/L) and antimony in bottom material (8-9 µg/g) were present at levels high enough to cause concern by the USEPA. However, no toxic compounds were detected at concentrations above USEPA alert levels in the river, spillway, or lake.

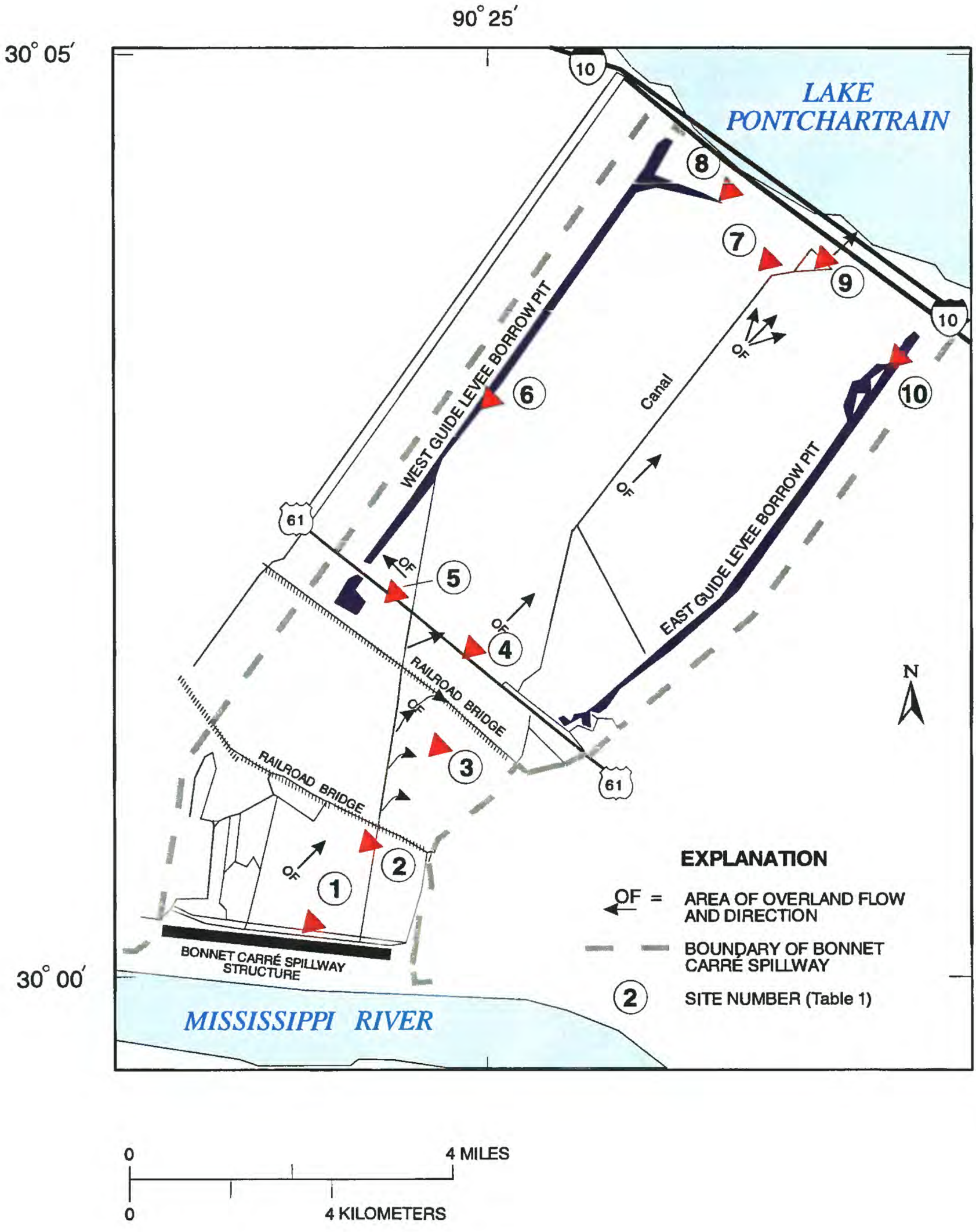



Figure 2. Suspended-sediment sampling sites in the Bonnet Carré Spillway, Louisiana, April 20, 1994.

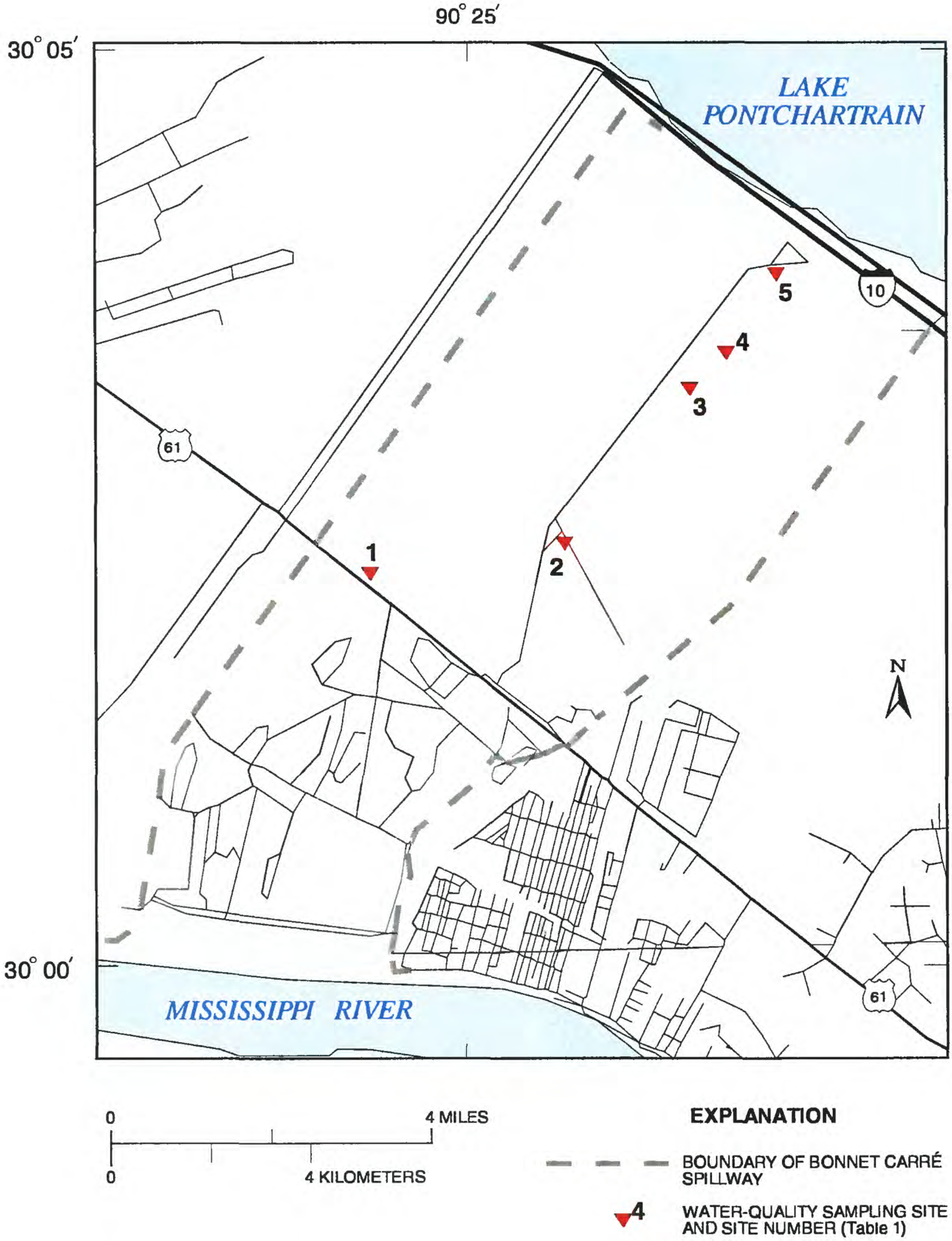



Figure 3. Water-quality sampling sites in the Bonnet Carré Spillway, Louisiana, May 18 and 26, 1994.

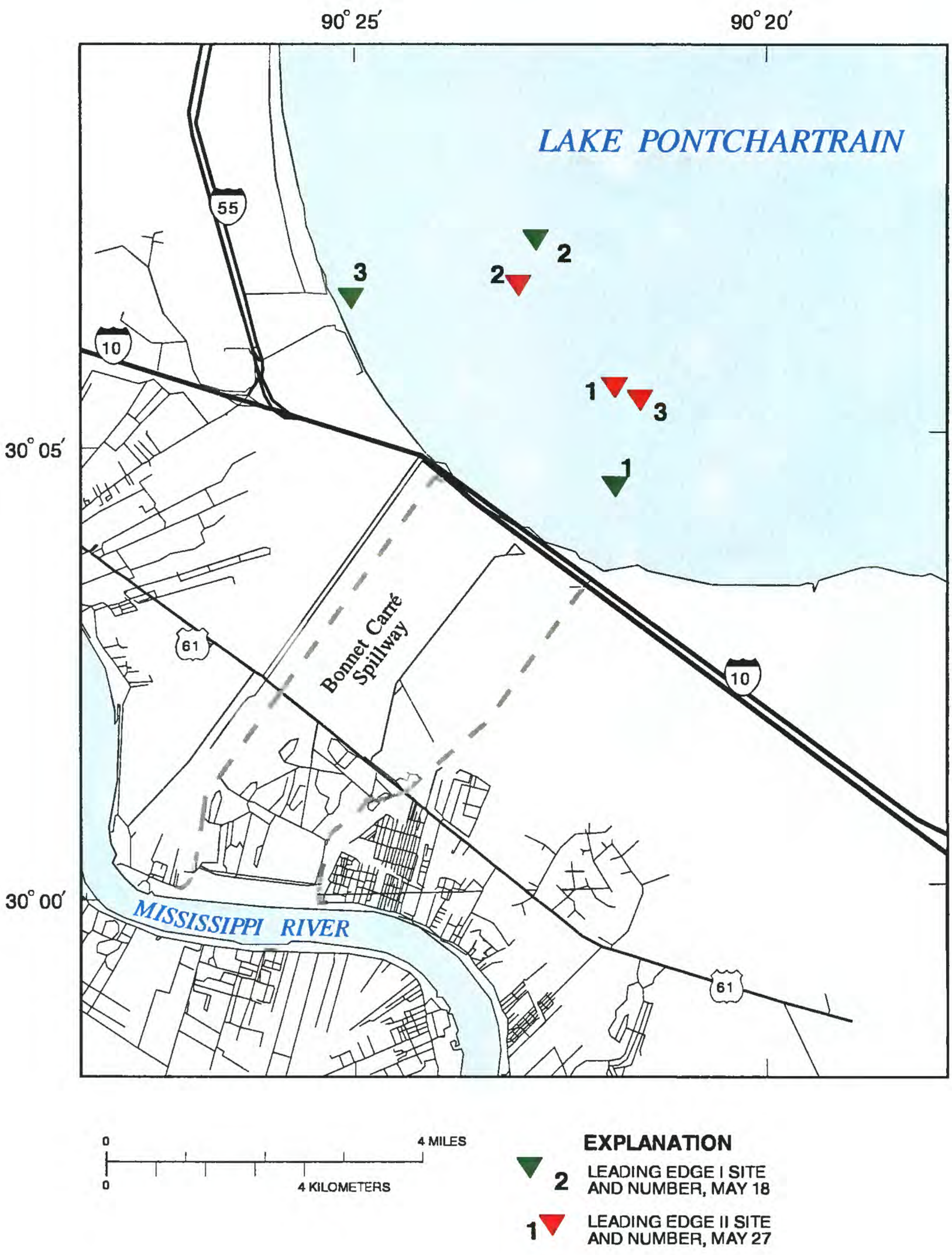



Figure 4. Water-quality sampling sites in the leading edge of the freshwater plume entering Lake Pontchartrain, Louisiana, May 18 and 27, 1994.

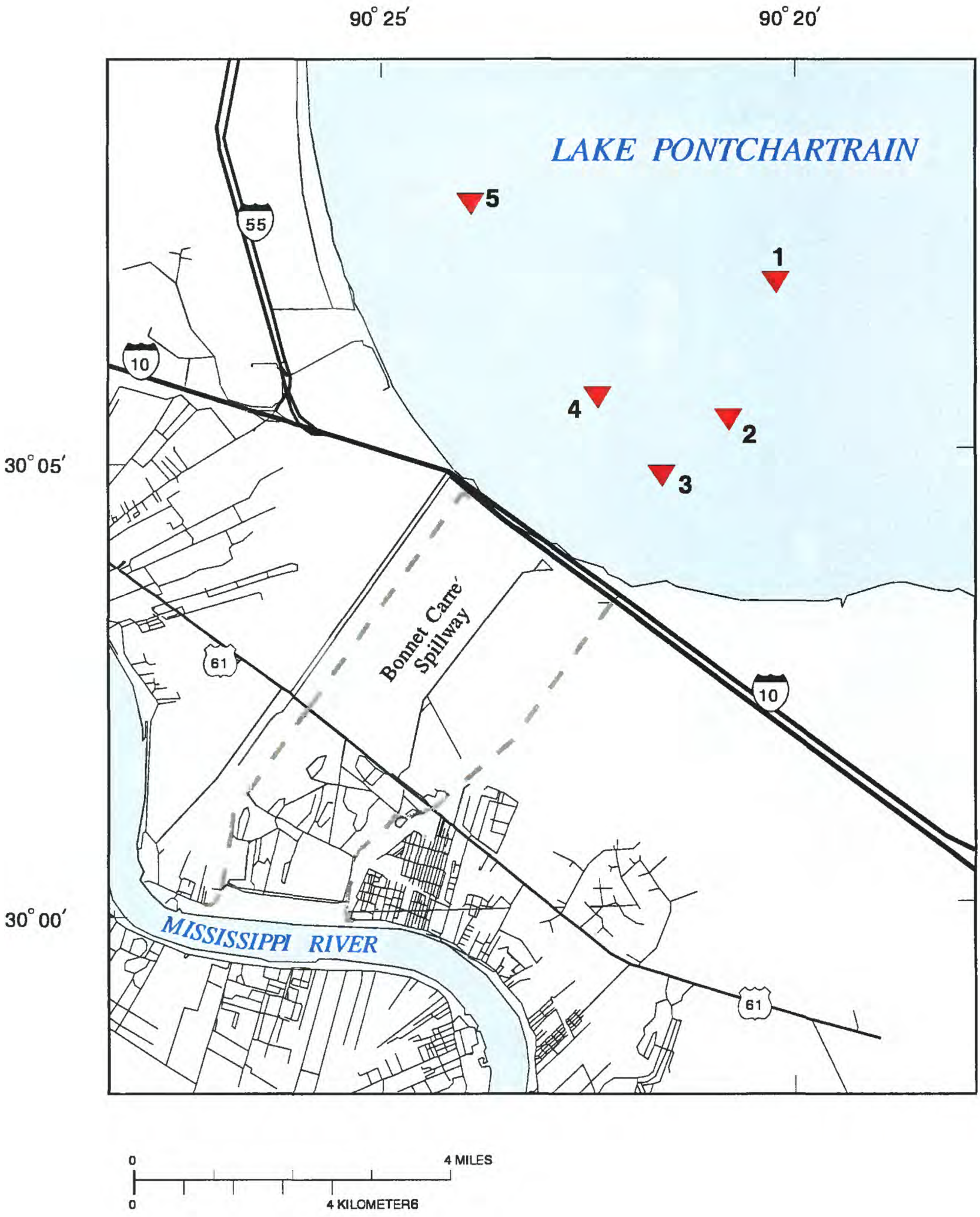



Figure 5. Water-quality sampling sites in the freshwater plume entering Lake Pontchartrain, Louisiana, May 19, 1994.

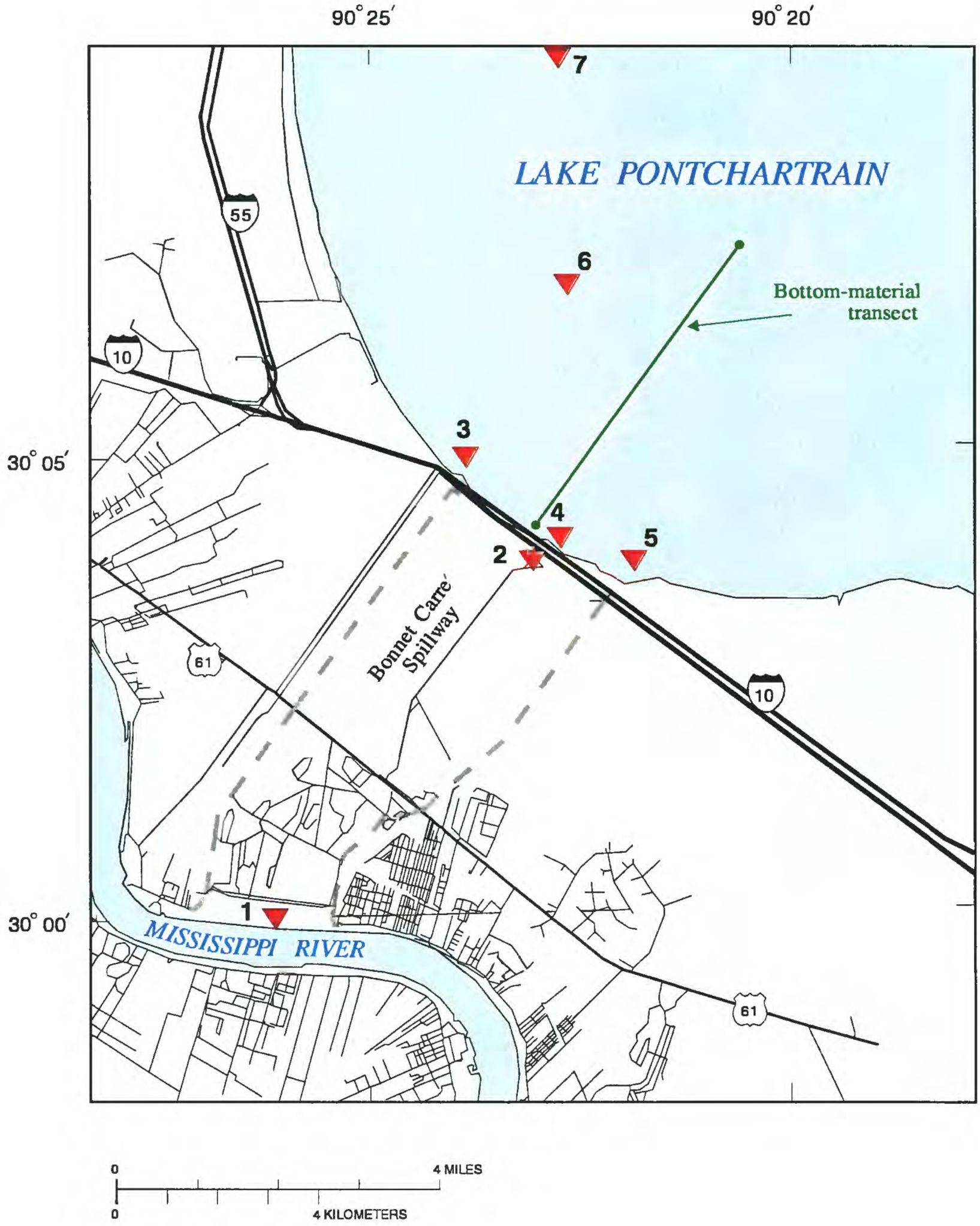



Figure 6. Water-quality sampling sites showing the effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19, 22, and 25, 1994.

To determine the trophic state of Lake Pontchartrain, the USGS collected water-quality samples at 10 major inflows into the lake and at the center of the lake during the period June 13-28, 1994. At each of the 10 major inflows, one water-quality sample was collected just offshore from the mouth and one was collected 3 mi offshore (fig. 7). The water-quality sampling sites are designated A1 and A3 at the middle transect at each inflow. Water temperature, pH, dissolved oxygen, specific conductance, salinity, oxygen-reduction potential, and photic zone were measured at three depths from three radiating transects at each inflow. These measurements were made sequentially at each site 5 minutes apart to investigate temporal as well as spatial variability. Water-quality constituents sampled at the inshore and offshore sites were the same as those for the leading edge and plume samples. Data (table 7, at back) indicated that nutrient and triazine herbicide concentrations were about 8-10 times higher in the Mississippi River than at the other inflows.

A dye study was conducted using rhodamine WT as a tracer of Mississippi River water into the lake to determine short-term circulation patterns (fig. 8). Results indicated that wind was the primary factor affecting dye movement during the 60 hours the dye was tracked. Also, 550 drift cards were released simultaneously with the dye. The 23 cards recovered along the western shore near the town of Ruddock, Louisiana, confirmed the results from the dye tracking.

## COMPARISON OF SELECTED WATER-QUALITY DATA, 1974-84, TO THE APRIL 16-MAY 24, 1979, OPENING OF THE BONNET CARRÉ SPILLWAY

During the spring of 1979 the COE opened the gates of the Bonnet Carré Spillway to divert water from the Mississippi River into Lake Pontchartrain. The spillway was opened to reduce pressure on the levees and therefore reduce the potential for flooding downstream from the structure. This release is specifically designed to help protect the City of New Orleans. Discharge to the lake through the spillway ranged from 49,000 to 250,000 $ft^3/s$ during the period April 20-May 20, 1979. Concurrent with this operation, the USGS analyzed daily water-quality samples from six locations in the lake as part of a cooperative agreement with the COE. Samples were collected from April 16 to June 14 and analyzed for selected physical properties and chemical constituents.

A statistical summary of surface-water quality in Lake Pontchartrain was completed using these data. Twenty-eight physical and chemical-related properties and other water-quality constituents from three sites in Lake Pontchartrain were statistically analyzed for the period 1974-84, excluding those 1979 samples collected when the spillway was opened. These statistical summaries were compared to data collected during the April 16-May 24, 1979, opening of the Bonnet Carré Spillway. These comparisons (table 8, at back) indicated that the two most significant changes noted during the spillway opening were substantial decreases in inorganic constituents (figures 9-11), and increases in nutrients (fig. 12).

Specific conductance values near Chef Menteur Pass (site 1) decreased from a median concentration of 9,460 µS/cm with the spillway closed to 1,040 µS/cm during the release. Specific conductance values near Bayou Lacombe (site 2) decreased from 3,790 to 1,440 µS/cm, and Pass Manchac (site 3) decreased from 1,360 to 303 µS/cm. These substantial decreases, supported by similar decreases in other inorganic constituents such as chloride, indicated a major shift towards a freshwater system in the lake during the release.

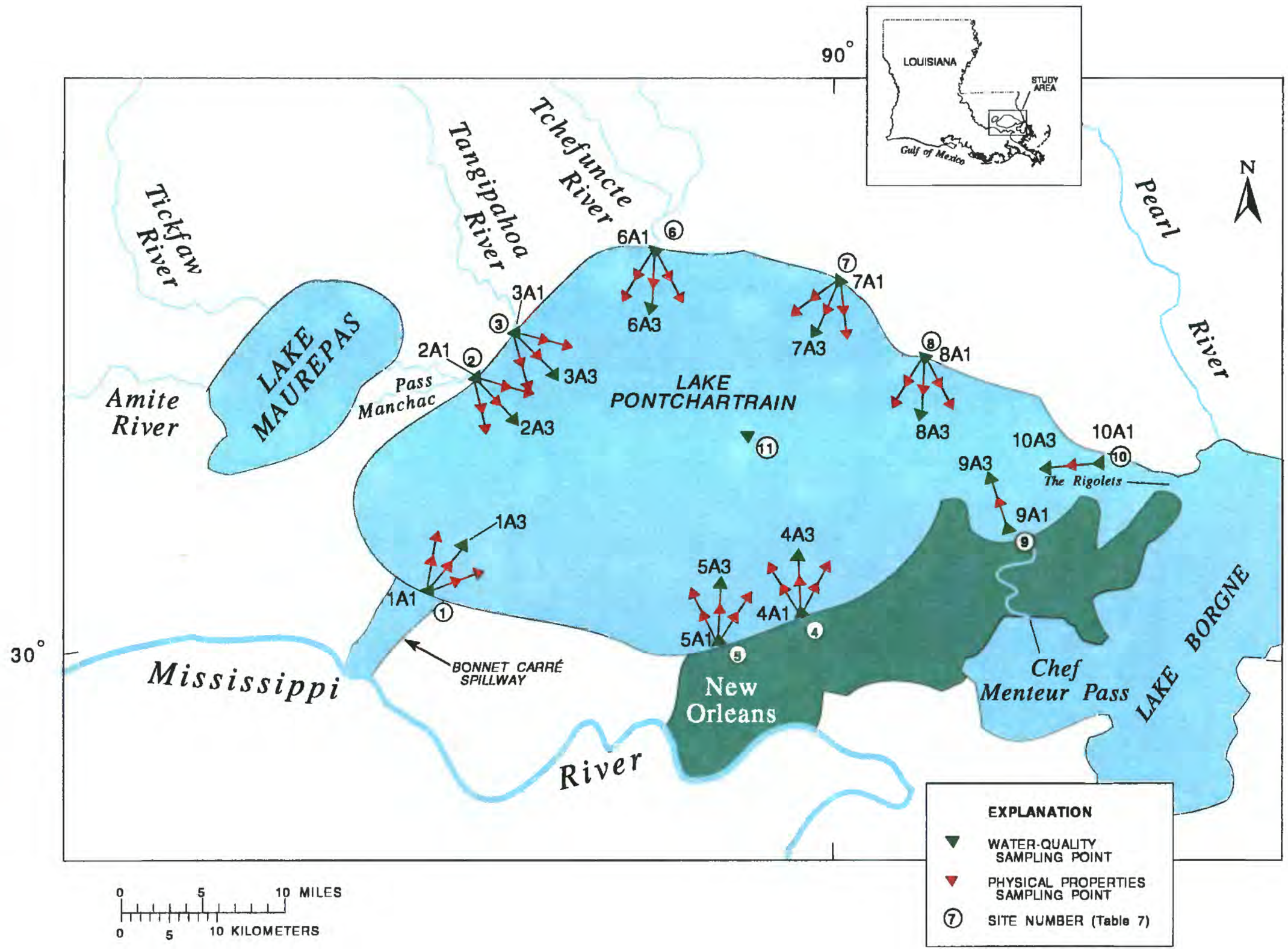



Figure 7. Water-quality sampling sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994.

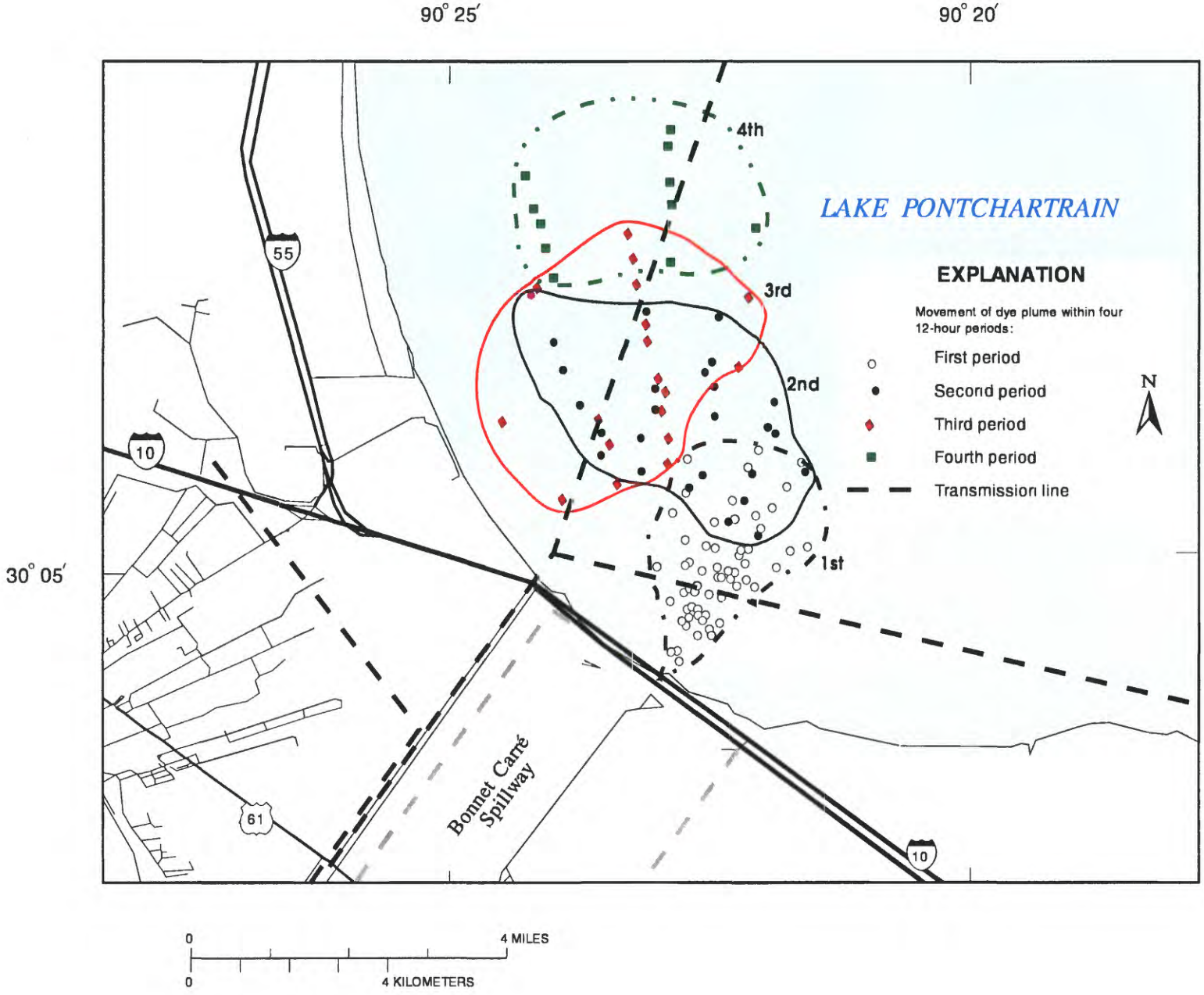
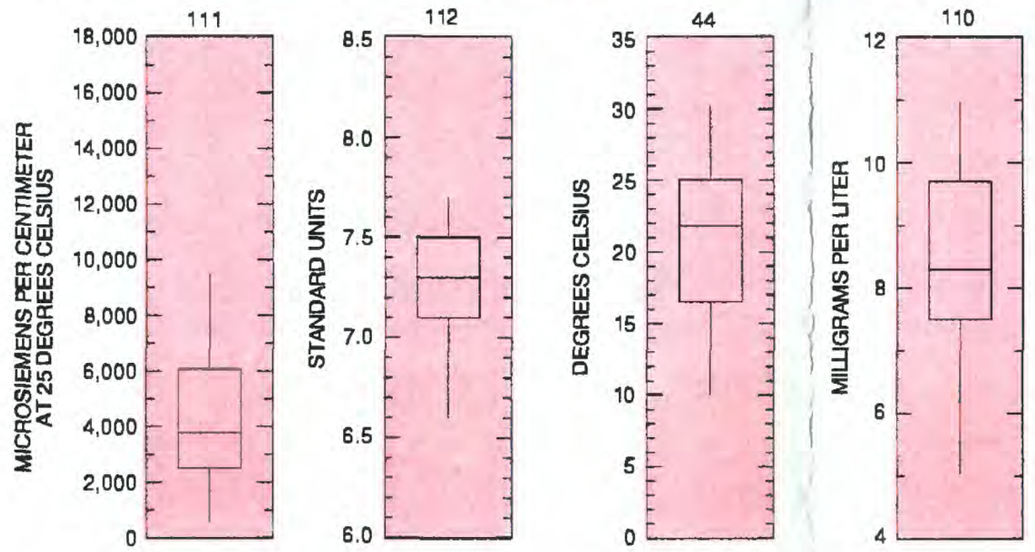


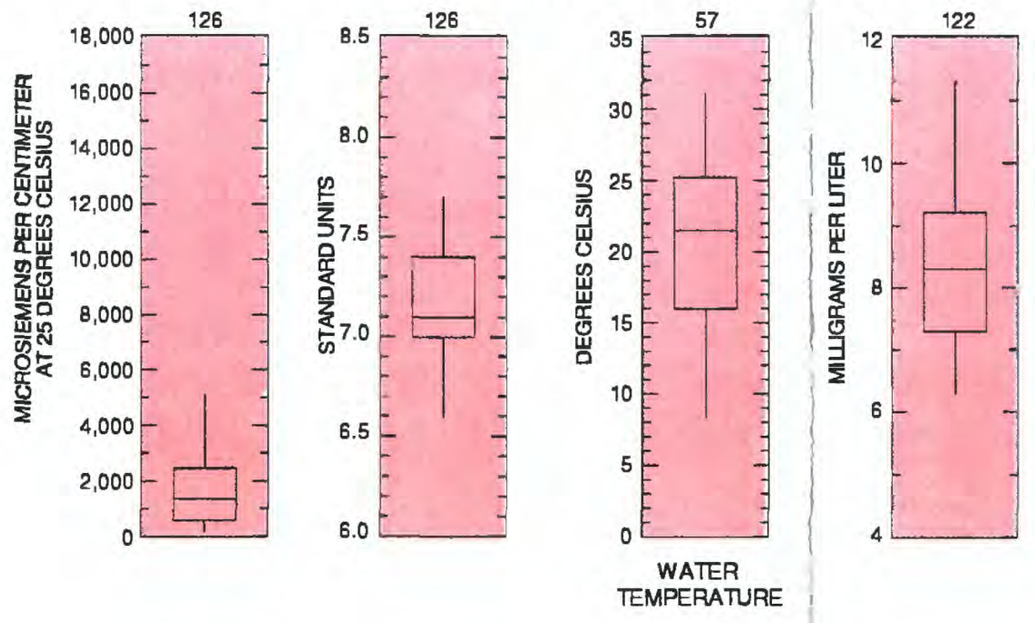

Figure 8. Dye plume in Lake Pontchartrain, near the Bonnet Carré Spillway, Louisiana, May 23-25, 1994.

## SPILLWAY CLOSED

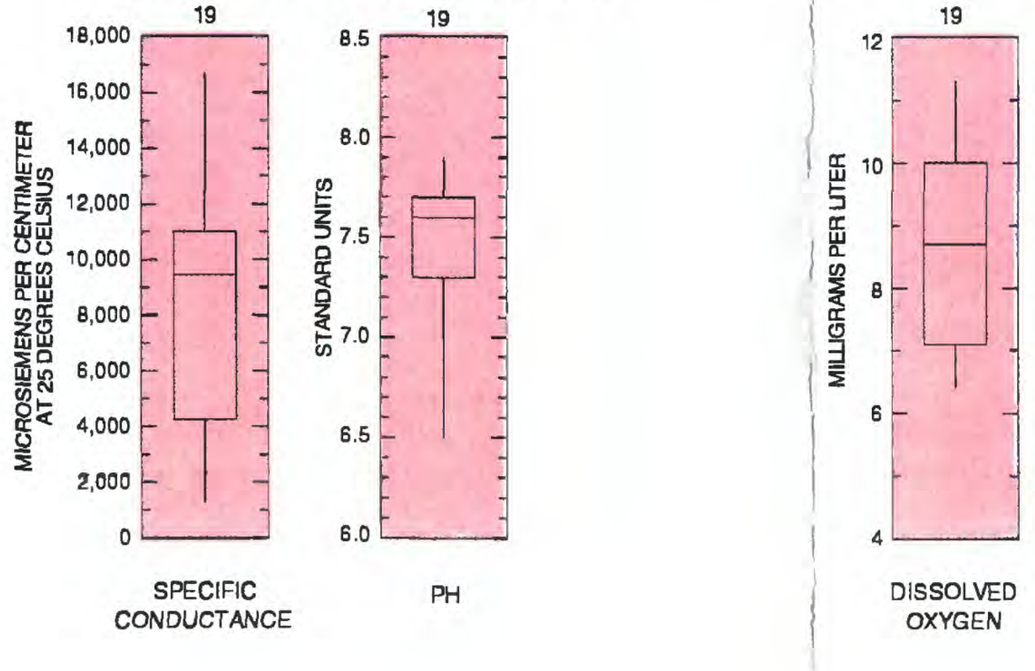
### 2 LAKE PONTCHARTRAIN AT BAYOU LACOMBE



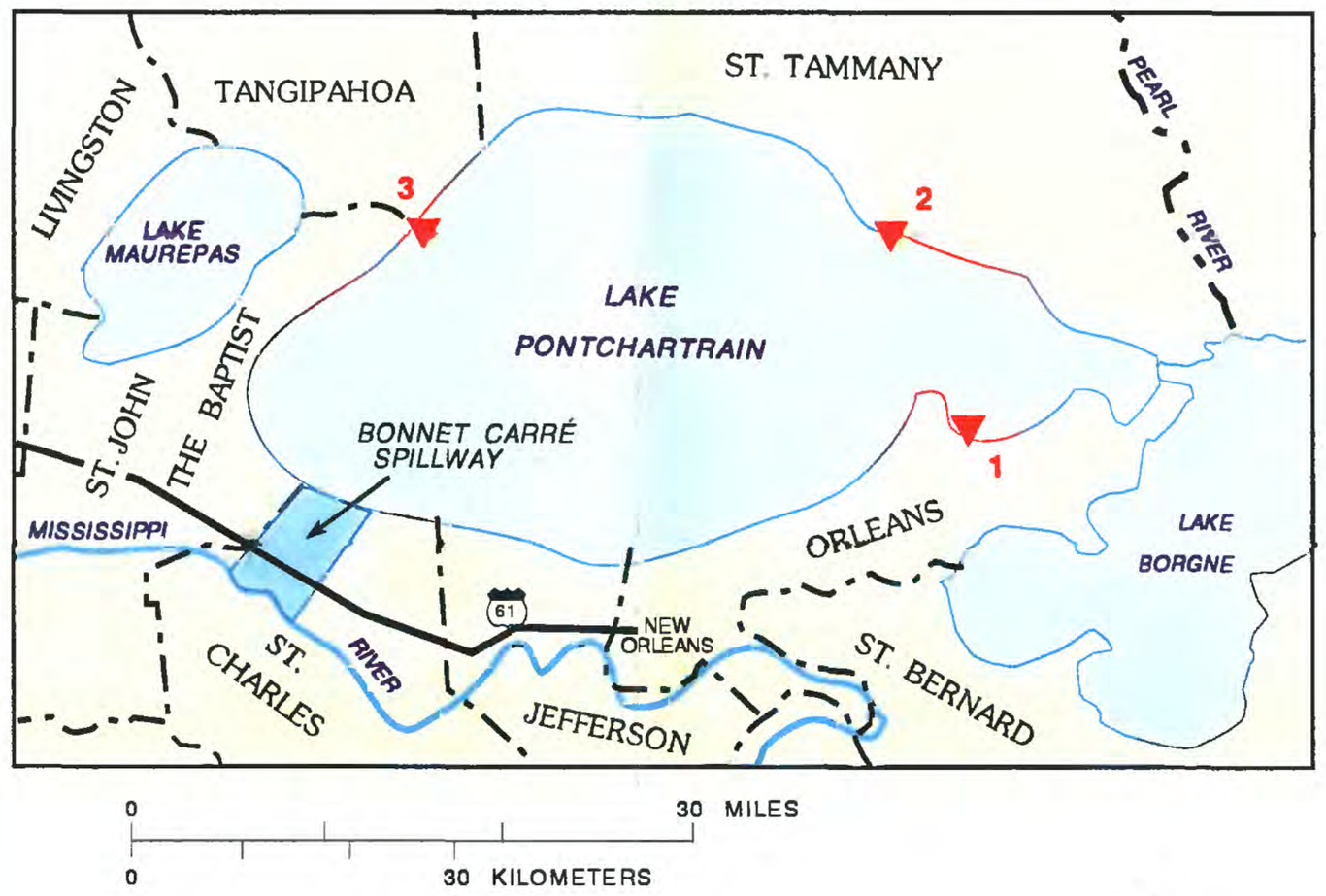

### 3 LAKE PONTCHARTRAIN AT PASS MANCHAC

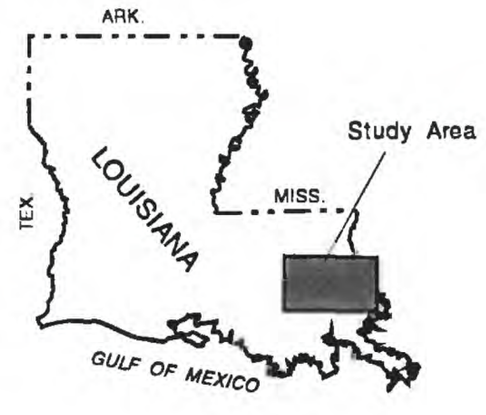



### 1 LAKE PONTCHARTRAIN 2.2 MILES NNW OF CHEF MENTEUR



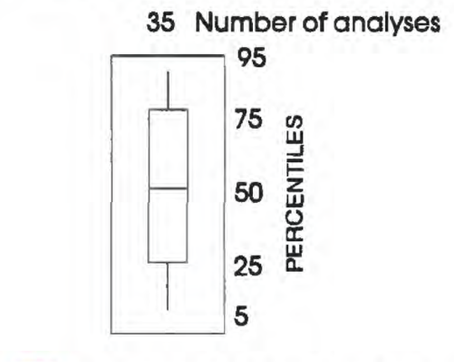

## LAKE PONTCHARTRAIN-LAKE MAUREPAS BASIN




INDEX MAP

EXPLANATION

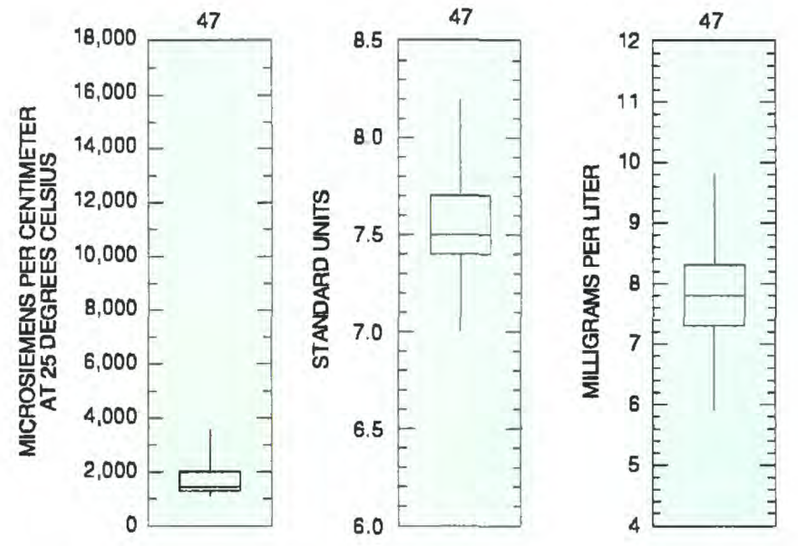



WATER-QUALITY STATION

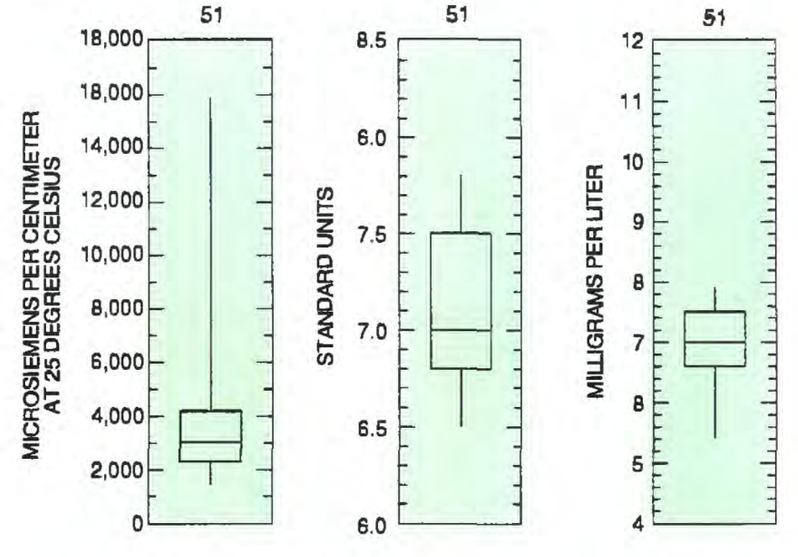
Figure 9. Water temperature, specific conductance, dissolved oxygen, and pH distribution in water from Lake Pontchartrain, Louisiana, with the Bonnet Carré Spillway closed and with the Spillway opened, April through June 1979.

## SPILLWAY OPENED

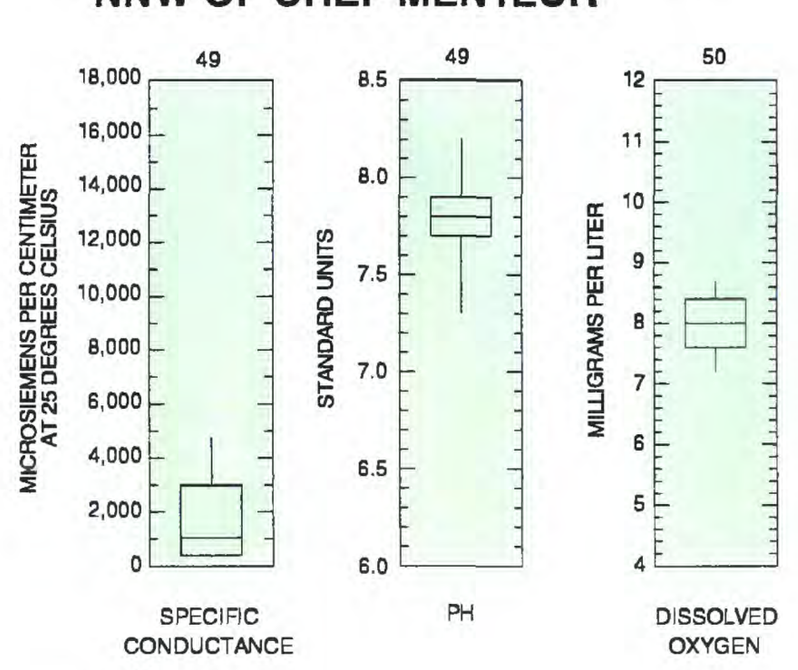
### 2 LAKE PONTCHARTRAIN AT BAYOU LACOMBE




### 3 LAKE PONTCHARTRAIN AT PASS MANCHAC

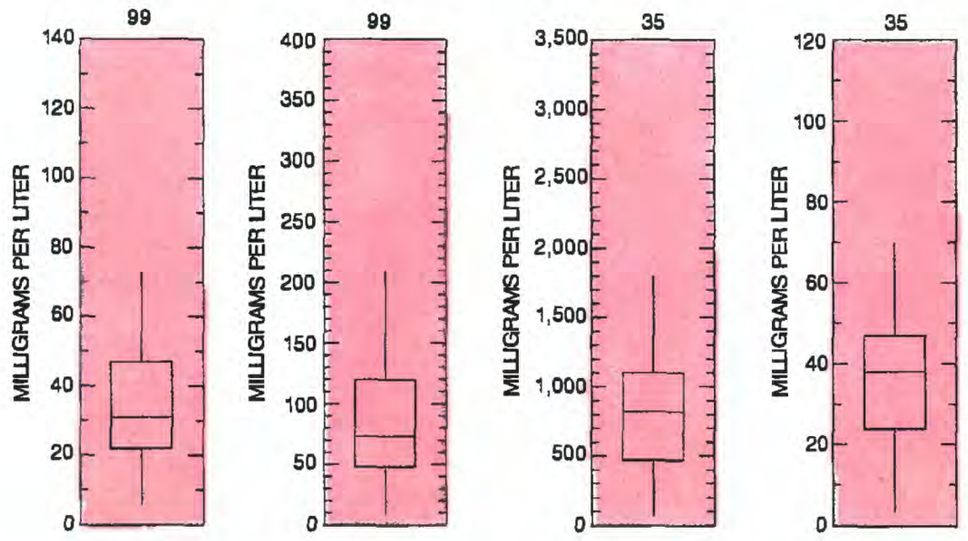



### 1 LAKE PONTCHARTRAIN 2.2 MILES NNW OF CHEF MENTEUR



## SPILLWAY CLOSED

### 2 LAKE PONTCHARTRAIN AT BAYOU LACOMBE

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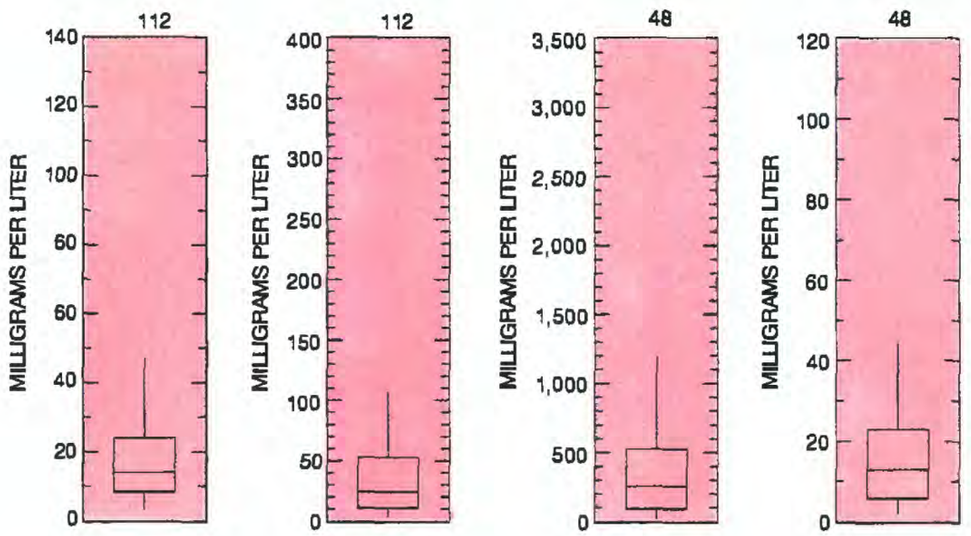
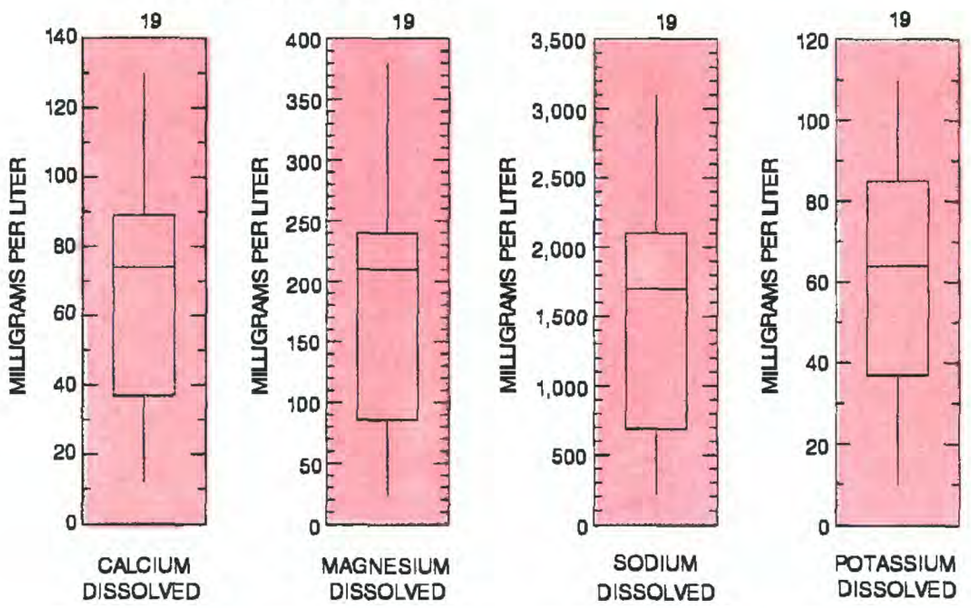
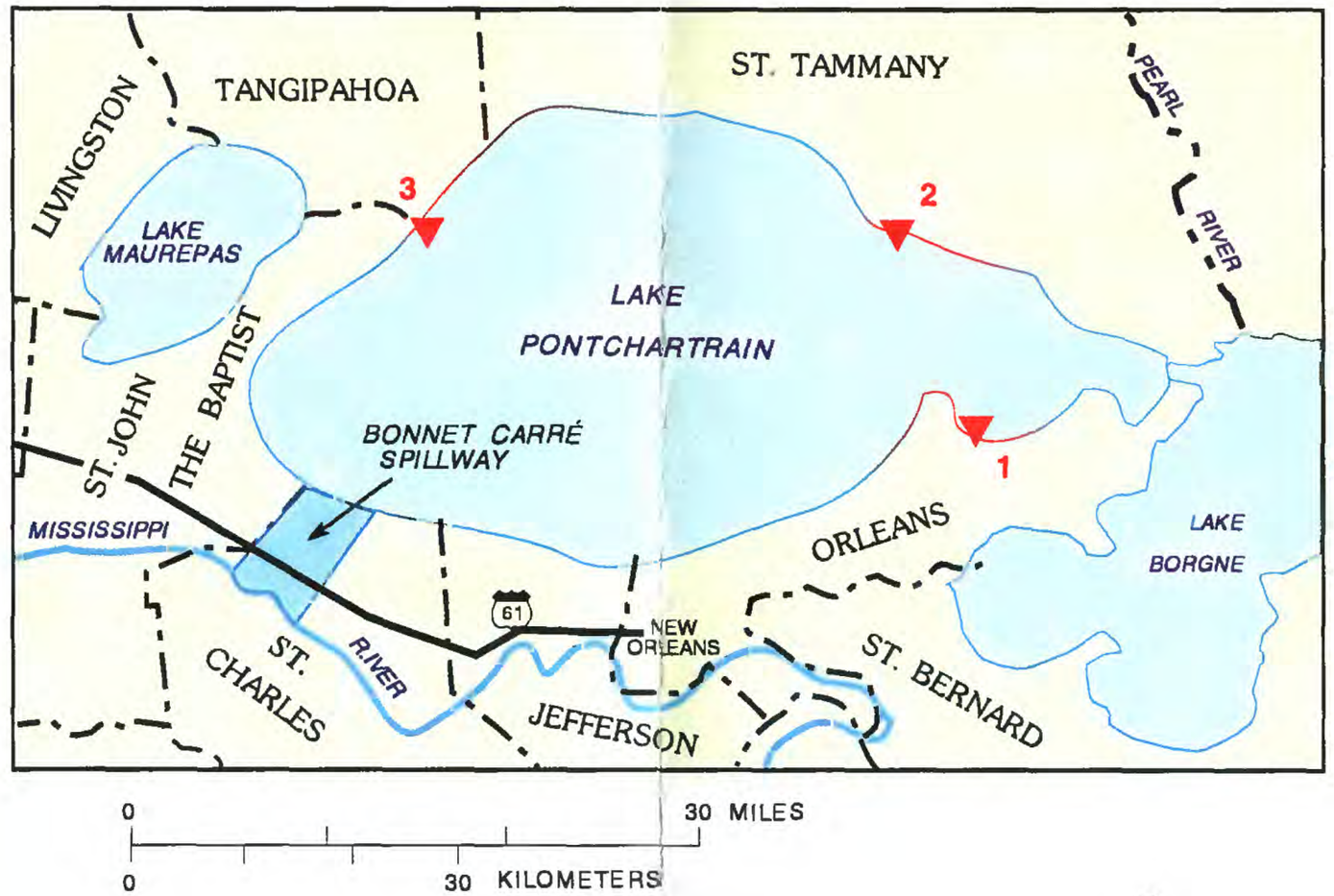



### 1 LAKE PONTCHARTRAIN 2.2 MILES NNW OF CHEF MENTEUR






## LAKE PONTCHARTRAIN-LAKE MAUREPAS BASIN





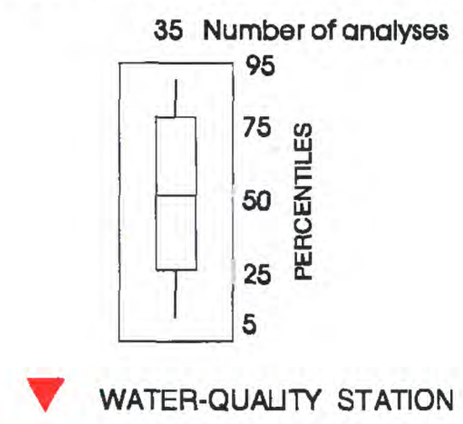
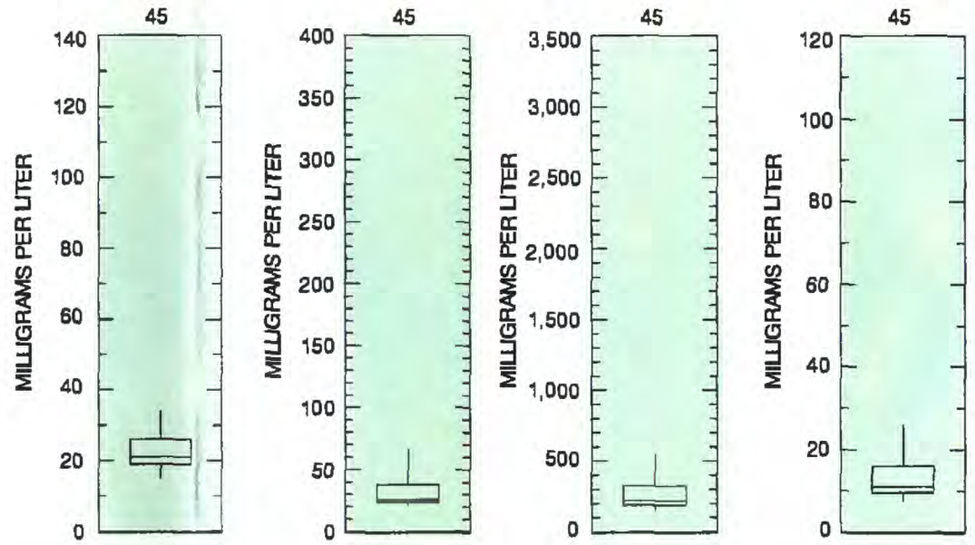


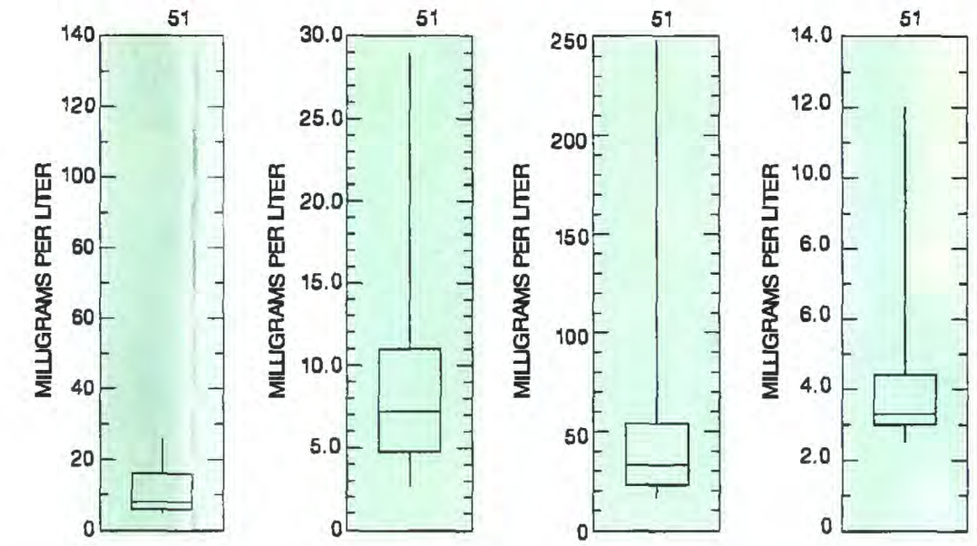

Figure 10. Concentrations of dissolved calcium, magnesium, sodium, and potassium in water from Lake Pontchartrain, Louisiana, with the Bonnet Carré Spillway closed and with the Spillway opened, April through June 1979.

## SPILLWAY OPENED

### 2 LAKE PONTCHARTRAIN AT BAYOU LACOMBE




### 3 LAKE PONTCHARTRAIN AT PASS MANCHAC

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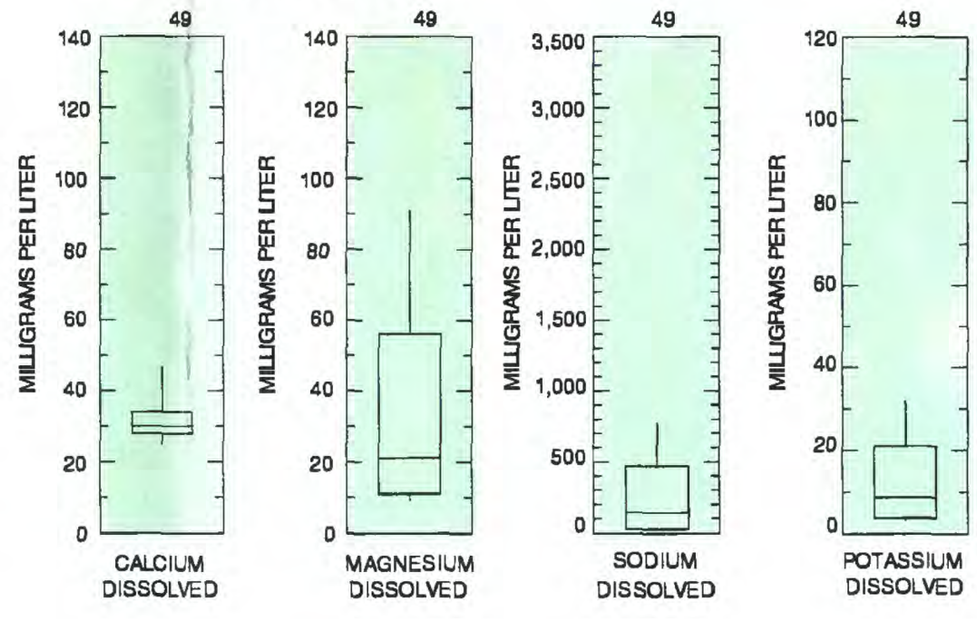
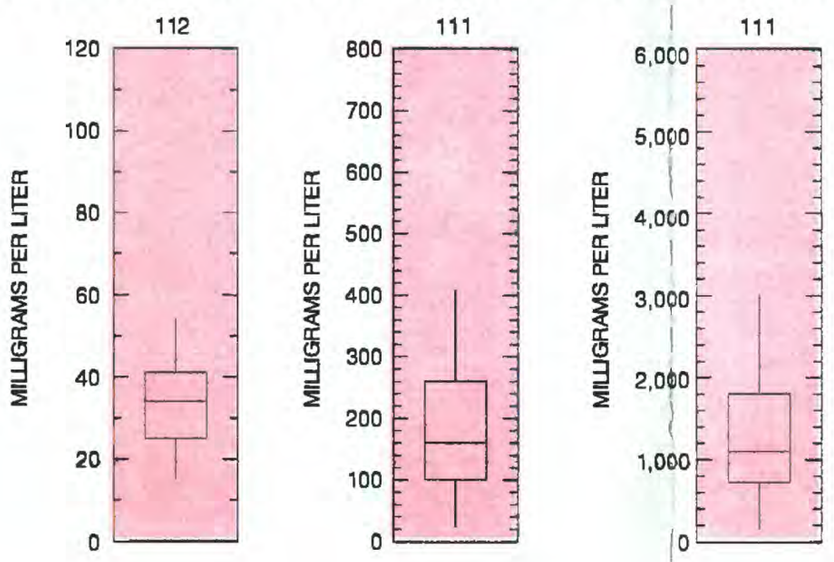
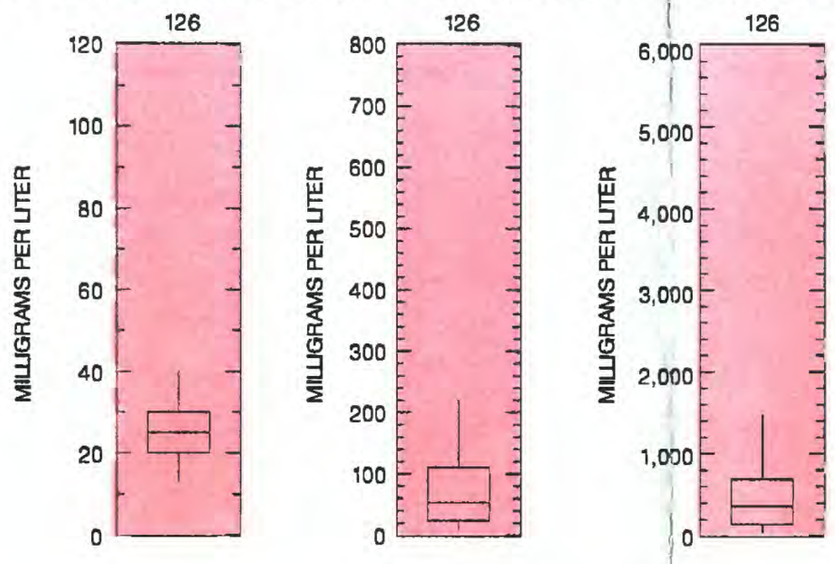


SPILLWAY CLOSED

## 2 LAKE PONTCHARTRAIN AT BAYOU LACOMBE




## 3 LAKE PONTCHARTRAIN AT PASS MANCHAC

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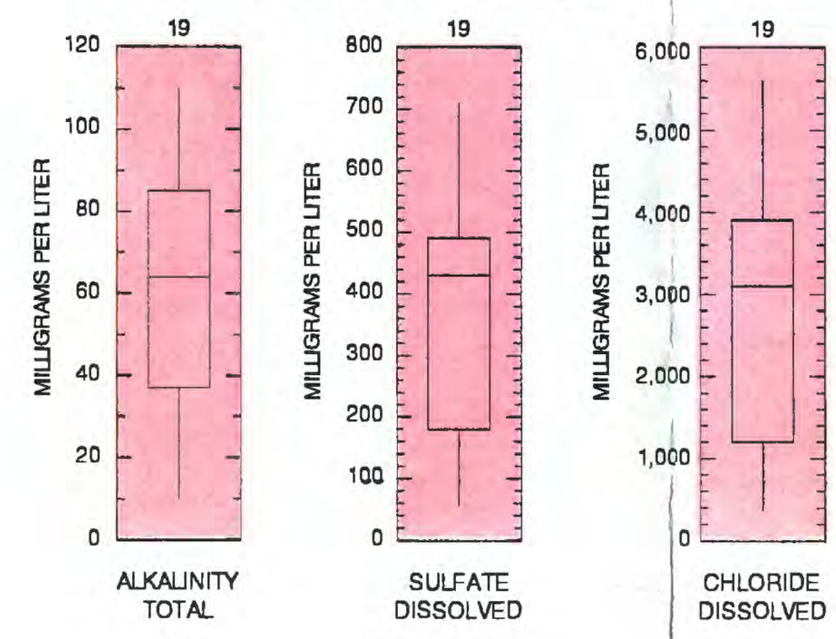
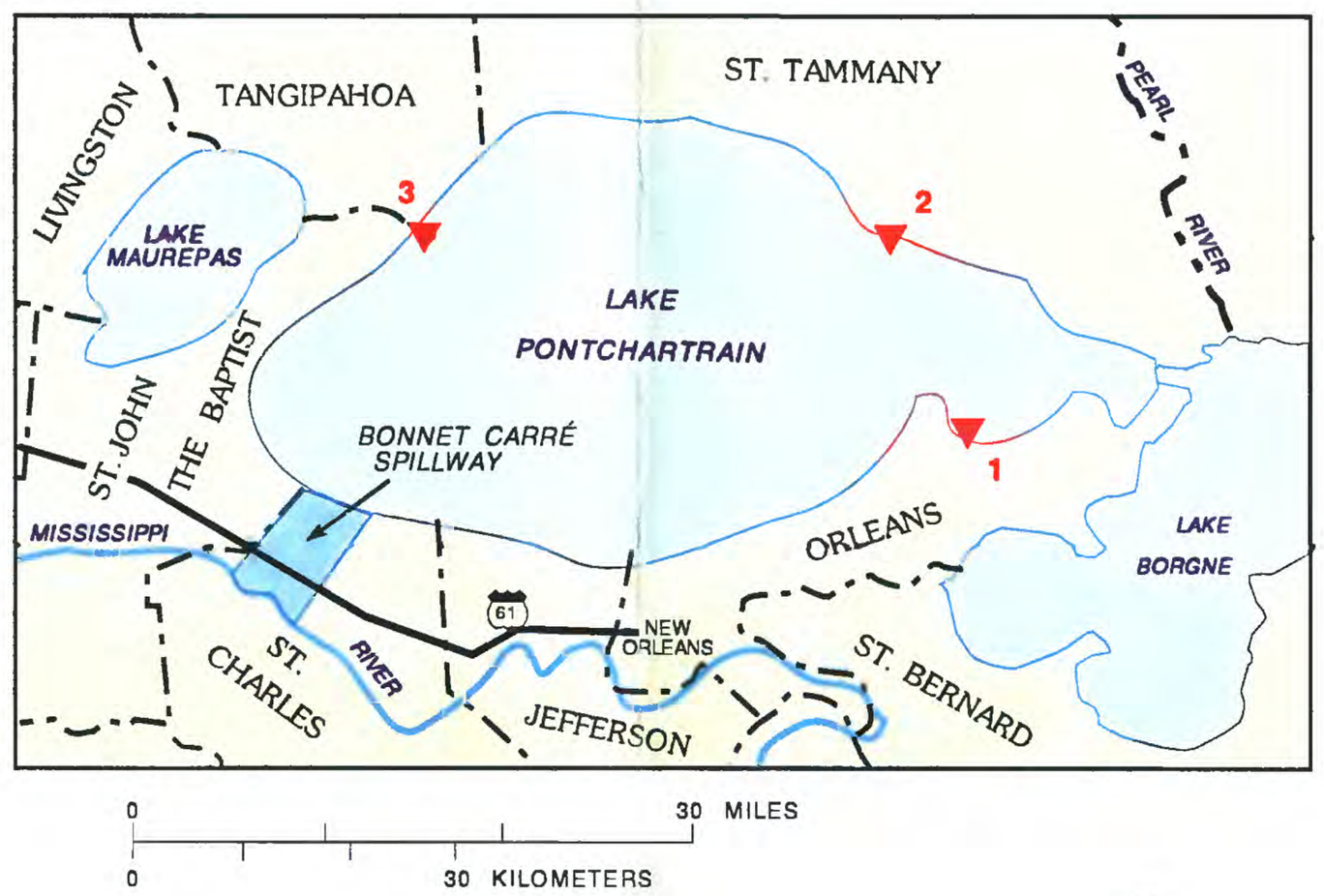
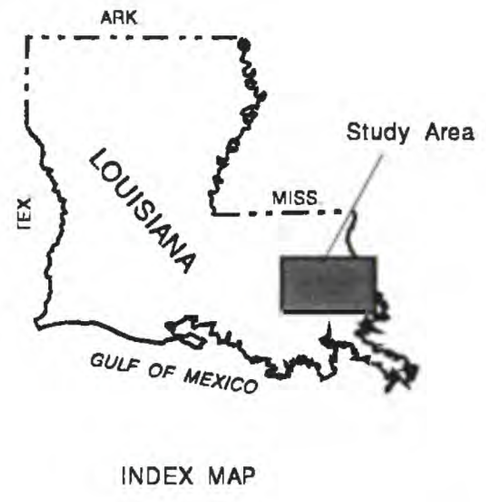



LAKE PONTCHARTRAIN-LAKE MAUREPAS BASIN

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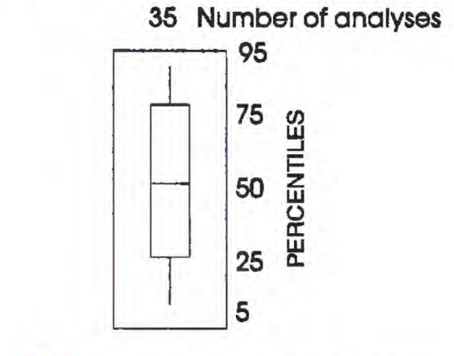
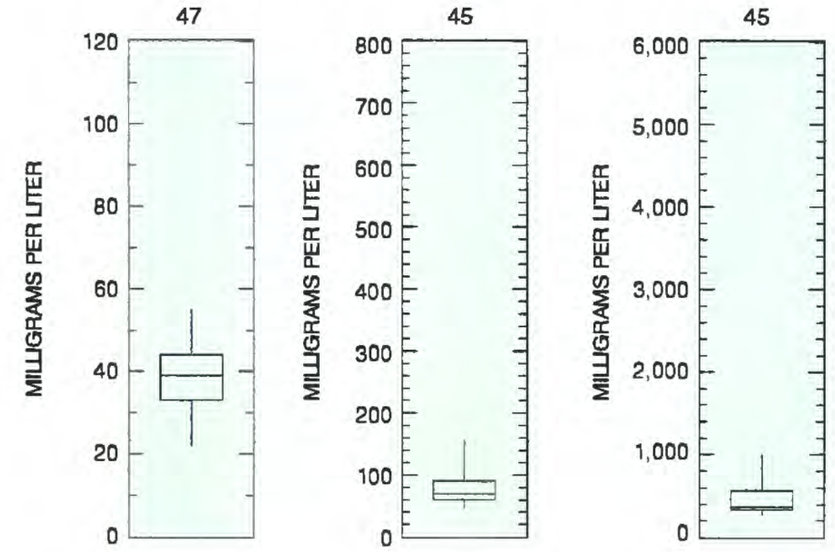



▼ WATER-QUALITY STATION

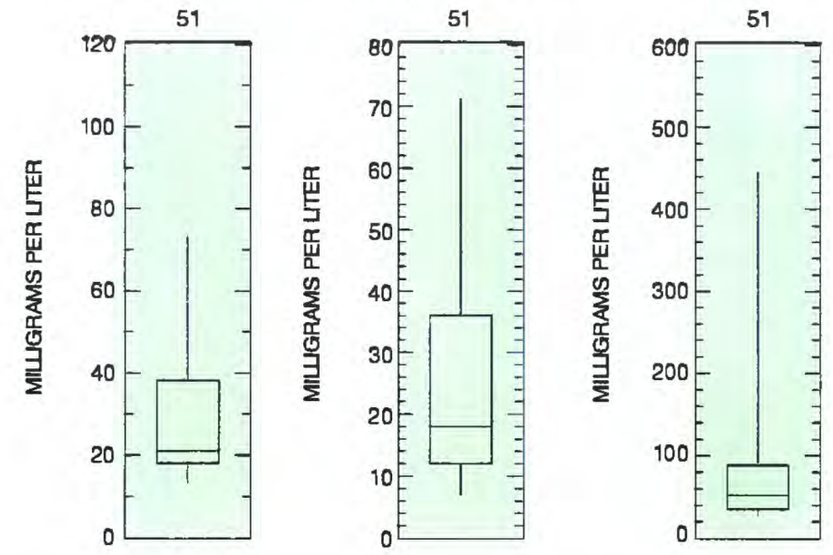
Figure 11. Concentrations of total alkalinity, dissolved sulfate, and dissolved chloride in water from Lake Pontchartrain, Louisiana, with the Bonnet Carré Spillway closed and with the Spillway opened, April through June 1979.

SPILLWAY OPENED

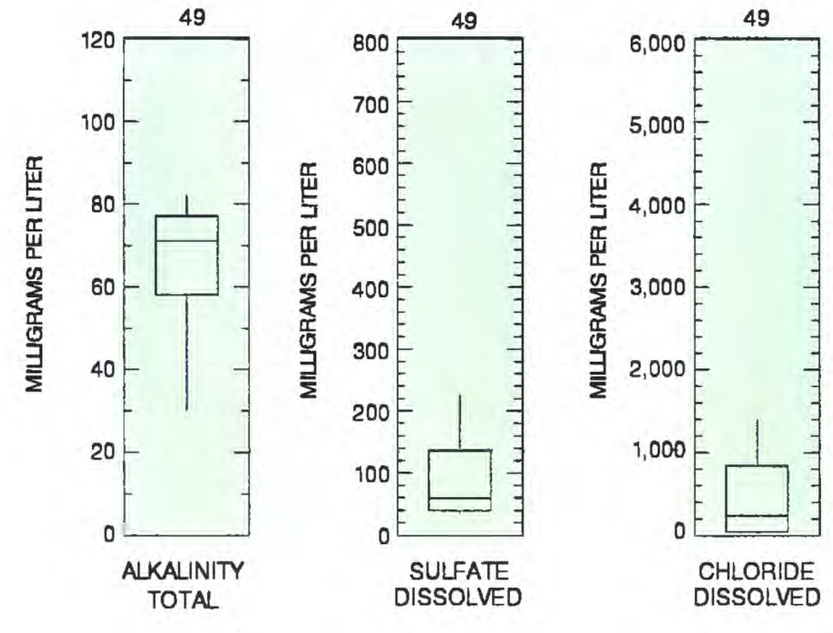
## 2 LAKE PONTCHARTRAIN AT BAYOU LACOMBE




## 3 LAKE PONTCHARTRAIN AT PASS MANCHAC




## 1 LAKE PONTCHARTRAIN 2.2 MILES NNW OF CHEF MENTEUR



Nutrient concentrations increased. Median (50 percentile) nitrite plus nitrate concentrations increased from 0.02 to 1.1 mg/L northwest of Chef Menteur pass (site 1), from <0.10 to 0.22 mg/L at the mouth of Bayou Lacombe (site 2), and from 0.16 to 0.23 mg/L at the mouth of Pass Manchac (site 3).

## SUMMARY

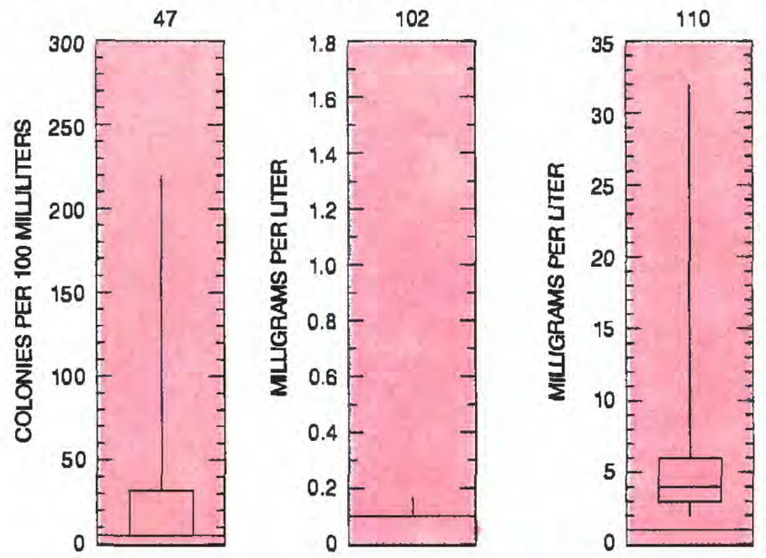
The Bonnet Carré Controlled Freshwater Diversion was authorized for construction in 1988 to benefit Lake Pontchartrain, the Biloxi marshes, and Mississippi Sound. The diversion was designed to route water from the Mississippi River through Lake Pontchartrain, a 629-square-mile lake that retains a connection with Mississippi Sound through two outlets: The Rigolets and Chef Menteur Pass. Private organizations and citizens' groups objected to the design, based on their concerns that production of finfish and shellfish in the lake would be reduced, and increased turbidity and eutrophication would degrade the lake's suitability for recreational uses. These concerns led to the creation in January 1994 of a Reanalysis Committee. Agencies and organizations represented by this committee included the U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Louisiana Department of Wildlife and Fisheries, Governor's Office of Coastal Activities, representatives of the State of Mississippi, Coalition to Restore Coastal Louisiana, Lake Pontchartrain Basin Foundation, and Louisiana State University. A lack of information on the potential effects of the proposed diversion on toxic contamination of the lake, the trophic condition, and circulation patterns was identified.

The U.S. Geological Survey and Louisiana State University were selected to collect and interpret the data needed to address these concerns. Four spillway bays were opened on May 16, 1994. To ensure a discharge of at least 8,000 $ft^3/s$ (cubic feet per second), additional bays were opened during the following week as the river stage declined. The bays were closed on May 26-27. During the experimental release, the measured discharge ranged from 8,410 to 14,000 $ft^3/s$, and average discharge was 9,956 $ft^3/s$. The study centered on the 5- to 6-mile-long Bonnet Carré Spillway and the southwestern area of Lake Pontchartrain directly affected by the experimental release. Water-quality samples were collected from 1 site on the Mississippi River at the entrance to the spillway, 5 sites within the spillway, 16 sites in Lake Pontchartrain near the spillway, and 21 additional sites around the perimeter of Lake Pontchartrain. Physical measurements and water-quality data were collected from April 20 to June 28, 1994. A total of 43 sites were sampled for water quality. Vertical profiles of physical and chemical-related properties including depth, water temperature, pH, dissolved oxygen, specific conductance, and salinity were taken at about 200 additional sites.

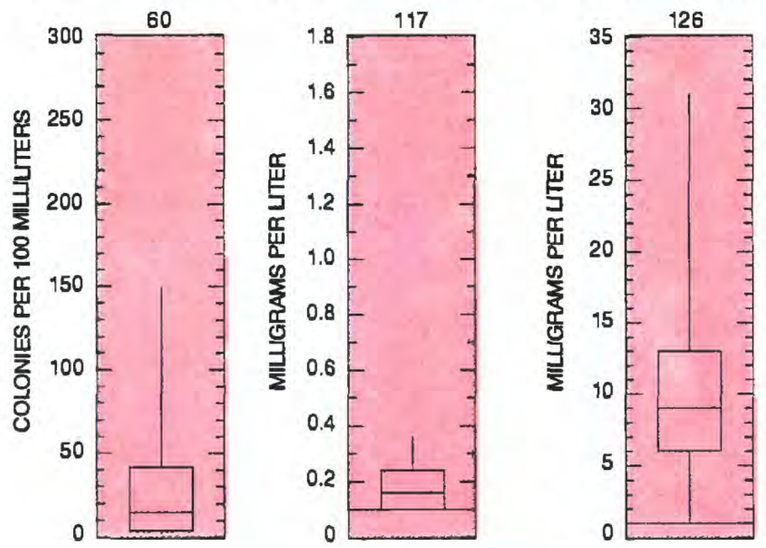
The data indicated that nutrient and triazine herbicide concentrations remained constant during the transit through the spillway. The freshwater plume extended 4-6 miles out into the lake and had well-defined boundaries. On May 13, the river water temperature at the entrance to the lake was 23.7 °C (degrees Celsius), over 4 degrees colder than the lake water (27.8 °C.), causing the river water to move underneath the lake water. As the water temperatures equilibrated, mixing began. The comprehensive water-quality concentrations, with the exceptions of antimony in bottom material and atrazine in water, were well below all established Federal and State criteria. The circulation studies on May 23-25 indicated that the dye and drifters moved in a northerly to

## SPILLWAY CLOSED

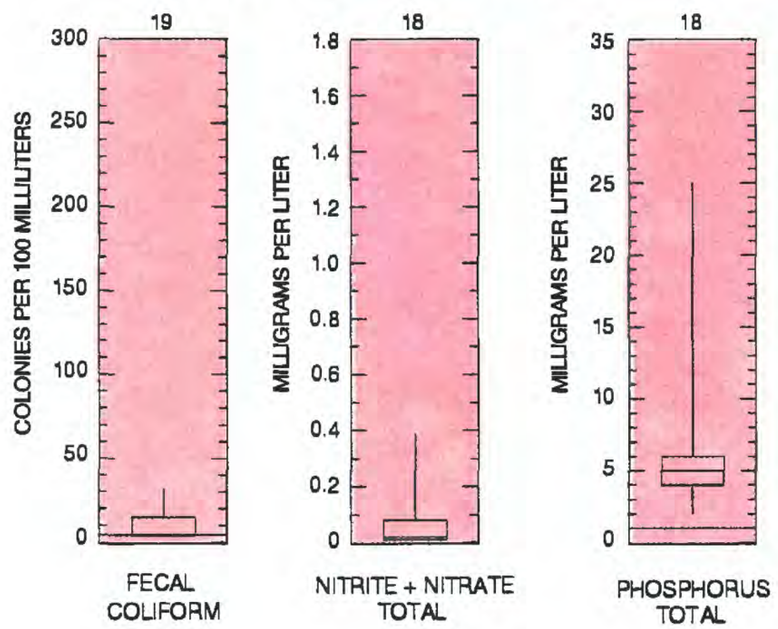
### 2 LAKE PONTCHARTRAIN AT BAYOU LACOMBE



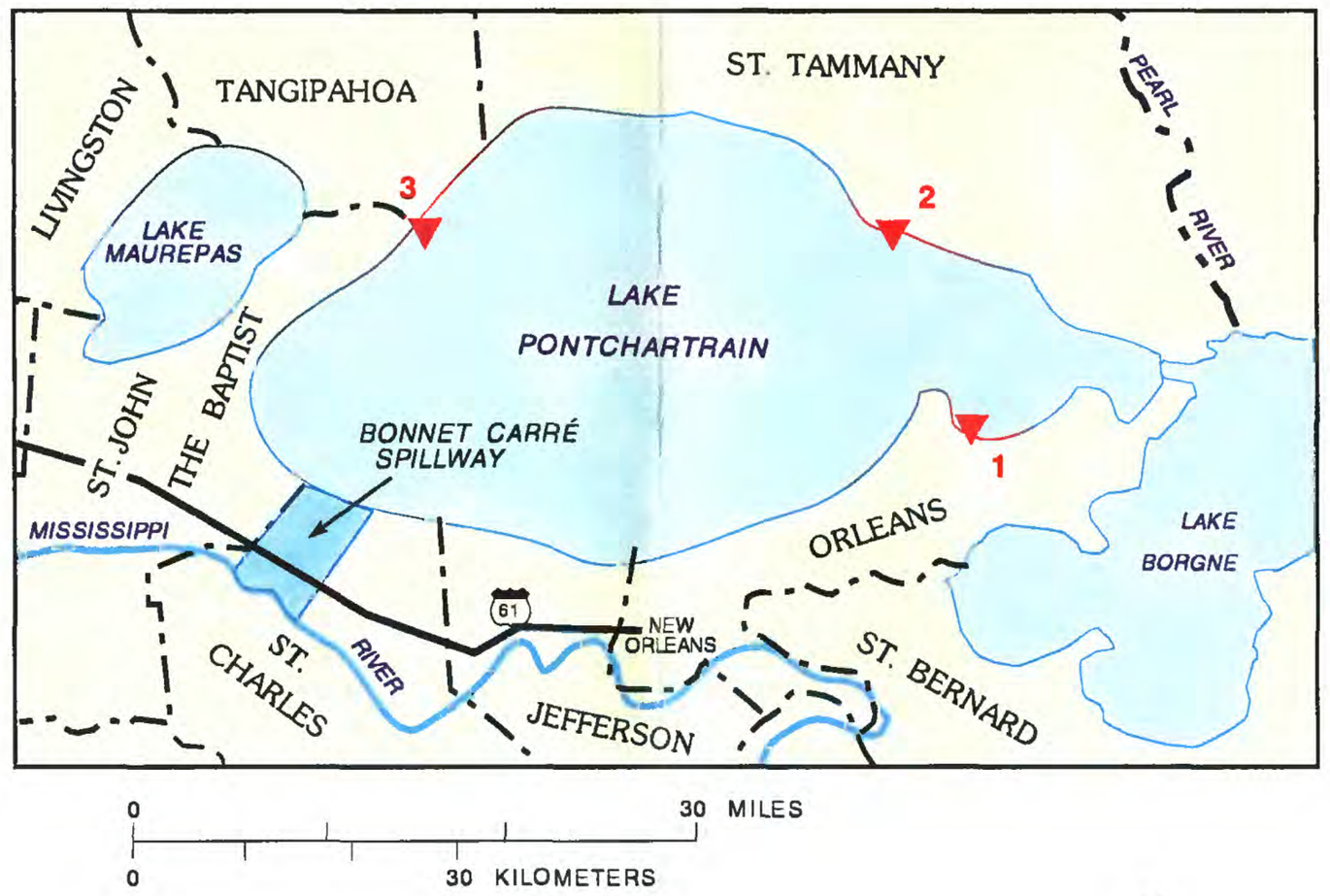

### 3 LAKE PONTCHARTRAIN AT PASS MANCHAC

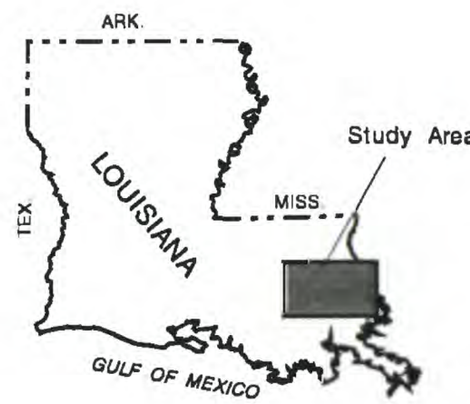



### 1 LAKE PONTCHARTRAIN 2.2 MILES NNW OF CHEF MENTEUR




## LAKE PONTCHARTRAIN-LAKE MAUREPAS BASIN



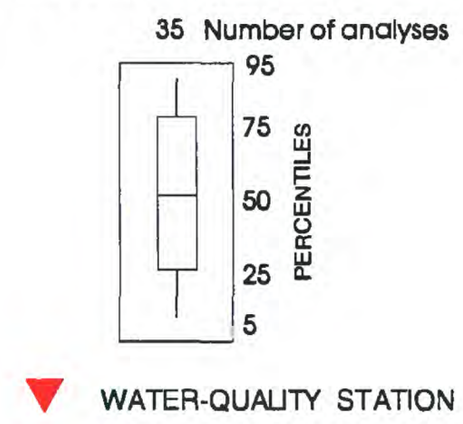
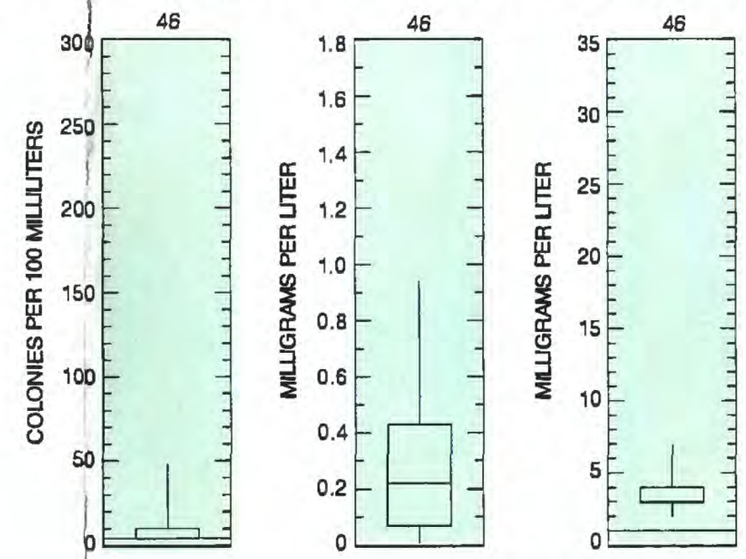




Figure 12. Concentrations of fecal-coliform bacteria and selected total nutrients in water from Lake Pontchartrain, Louisiana, with the Bonnet Carré Spillway closed and with the Spillway opened, April through June 1979.

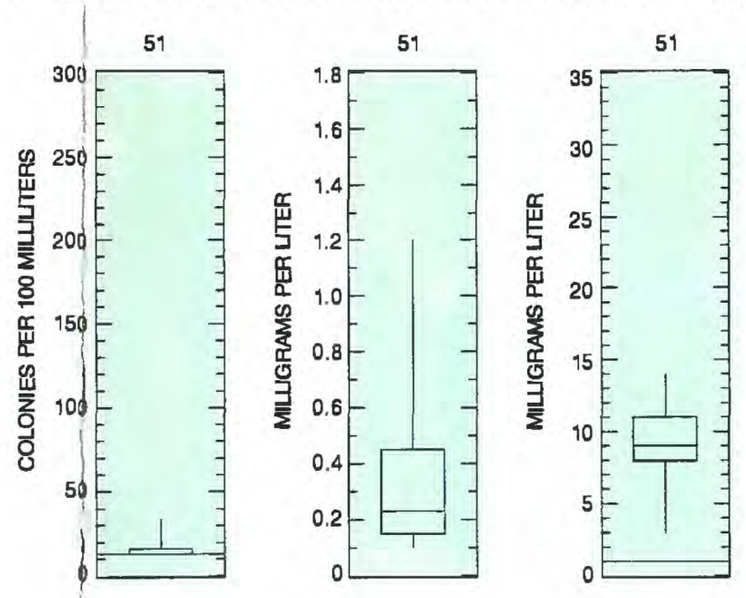


## SPILLWAY OPENED

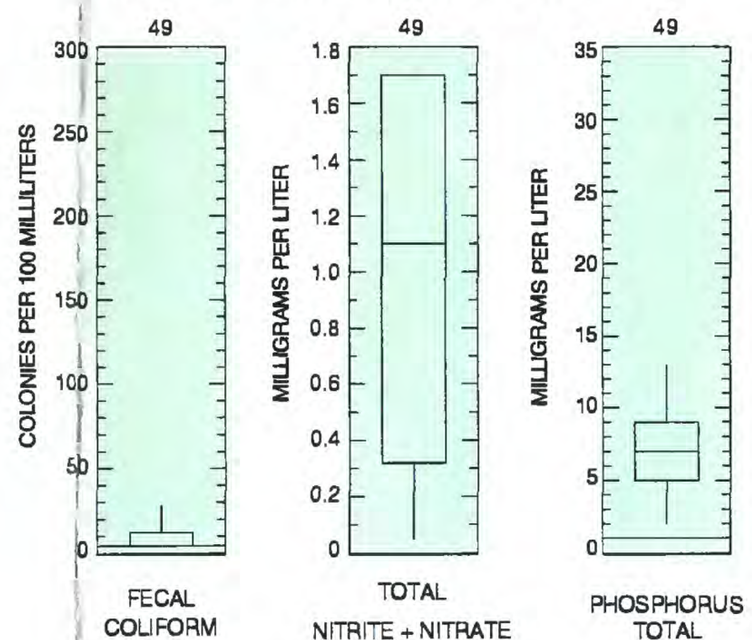
### 2 LAKE PONTCHARTRAIN AT BAYOU LACOMBE




### 3 LAKE PONTCHARTRAIN AT PASS MANCHAC




### 1 LAKE PONTCHARTRAIN 2.2 MILES NNW OF CHEF MENTEUR



northwesterly direction, and were highly responsive to changes in wind direction. From June 13 to 28, 1994, the U.S. Geological Survey collected water-quality samples from 10 sites representing the major inflows into the lake and one site in mid-lake, in order to determine the trophic state of Lake Pontchartrain. The results of water-quality analyses indicated that nutrient and triazine herbicide concentrations in the river were about 8-10 times higher than at the other inflows.

The comparison of statistical summaries of 28 selected surface-water quality constituents at three sites in Lake Pontchartrain for the period 1974-84 to data from the April 16-May 24, 1979, opening of the Bonnet Carré Spillway indicated that the two most significant changes noted during the spillway opening were substantial decreases in inorganic constituents and increases in nutrients. Specific conductances near Chef Menteur Pass decreased from a median concentration of 9,460 µS/cm (microsiemens per centimeter) with the spillway closed to 1,040 µS/cm during the release. Specific conductances near Bayou Lacombe decreased from 3,790 to 1,440 µS/cm, and Pass Manchac decreased from 1,360 to 303 µS/cm. Median (50 percentile) nitrite plus nitrate concentrations increased from 0.02 to 1.1 mg/L (milligrams per liter) 2.2 miles northwest of Chef Menteur, from <0.10 to 0.22 mg/L at the mouth of Bayou Lacombe, and from 0.16 to 0.23 mg/L to the mouth of Pass Manchac.

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TABLES 1-8

**Table 1.** Suspended-sediment concentrations for selected sites in the Bonnet Carré Spillway and Lake Pontchartrain, Louisiana, April through June 1994

[mg/L, milligrams per liter; inshore sites are 100 meters from mouth of inflow into Lake Pontchartrain; offshore sites are 3 kilometers from mouth, in Lake Pontchartrain.].

| Site number | Sand concentration (mg/L) | Silt concentration (mg/L) | Total concentration (mg/L) |
|---|---|---|---|
| **Bonnet Carré Spillway, April 20, 1994** | | | |
| 1 | 0 | 19 | 20 |
| 2 | 4 | 32 | 36 |
| 3 | 8 | 38 | 46 |
| 4 | 6 | 46 | 52 |
| 5 | 4 | 36 | 40 |
| 6 | 2 | 24 | 26 |
| 7 | 4 | 45 | 49 |
| 8 | 5 | 25 | 30 |
| 9 | 7 | 25 | 32 |
| 10 | 2 | 18 | 20 |
| **Leading edge of freshwater plume in Lake Pontchartrain, May 18, 1994** | | | |
| 1 | 0 | 46 | 46 |
| 2 | 0 | 24 | 24 |
| 3 | 0 | 30 | 30 |
| **Freshwater plume in Lake Pontchartrain, May 19, 1994** | | | |
| 1 | 0 | 59 | 59 |
| 2 | 0 | 71 | 71 |
| 3 | 1 | 56 | 56 |
| 4 | 2 | 60 | 62 |
| 5 | 1 | 41 | 42 |
| **Leading edge of freshwater plume in Lake Pontchartrain, May 27, 1994** | | | |
| 1 | 0 | 8 | 8 |
| 2 | 0 | 5 | 5 |
| 3 | 0 | 8 | 8 |
| **Mississippi River at Spillway structure, May 19, 1994** | | | |
| 1 | 3 | 84 | 87 |
| **Bonnet Carré Spillway, May 18, 1994** | | | |
| 1 | 0 | 38 | 38 |
| 2 | 0 | 36 | 36 |
| 3 | 0 | 33 | 33 |
| 4 | 0 | 20 | 20 |
| 5 | 0 | 22 | 22 |
| **Bonnet Carré Spillway, May 25, 1994** | | | |
| 1 | 28 | 34 | 62 |
| 2 | 4 | 36 | 40 |
| 3 | 2 | 28 | 30 |
| 4 | 0 | 24 | 24 |
| 5 | 0 | 24 | 24 |

**Table 1.** Suspended-sediment concentrations for selected sites in the Bonnet Carré Spillway and Lake Pontchartrain, Louisiana, April through June 1994—Continued

| Site | Sand concentration (mg/L) | Silt concentration (mg/L) | Total concentration (mg/L) |
|---|---|---|---|
| **Bonnet Carré at Lake Pontchartrain, June 13, 1994** | | | |
| Inshore | 0 | 12 | 12 |
| Offshore | 0 | 2 | 2 |
| **Pass Manchac at Lake Pontchartrain, June 14, 1994** | | | |
| Inshore | 2 | 15 | 17 |
| Offshore | 2 | 8 | 10 |
| **Inner Harbor Navigation Canal at Lake Pontchartrain, June 15, 1994** | | | |
| Inshore | 0 | 4 | 4 |
| Offshore | 0 | 4 | 4 |
| **17th Street Canal at Lake Pontchartrain, June 15, 1994** | | | |
| Inshore | 0 | 6 | 6 |
| Offshore | 0 | 3 | 3 |
| **Tchefuncte River at Lake Pontchartrain, June 16, 1994** | | | |
| Inshore | 0 | 10 | 10 |
| Offshore | 0 | 3 | 3 |
| **Bayou Castine at Lake Pontchartrain, June 16, 1994** | | | |
| Inshore | 0 | 2 | 2 |
| Offshore | 0 | 1 | 1 |
| **Bayou Lacombe at Lake Pontchartrain, June 17, 1994** | | | |
| Inshore | 0 | 3 | 3 |
| Offshore | 0 | 2 | 2 |
| **Chef Menteur Pass at Lake Pontchartrain, June 22, 1994** | | | |
| Inshore | 0 | 8 | 8 |
| Offshore | 0 | 4 | 4 |
| **The Rigolets at Lake Pontchartrain, June 23, 1994** | | | |
| Inshore | 0 | 8 | 8 |
| Offshore | 0 | 12 | 12 |
| **Middle of Lake Pontchartrain, June 28, 1994** | | | |
| | 0 | 12 | 12 |

**Table 2.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the Bonnet Carré Spillway, Louisiana, May 18 and 26, 1994

[M, meter; US/CM, microsiemens per centimeter at 25 degrees Celsius; PPT, parts per thousand; DEG C, degrees Celsius; MG/L, milligrams per liter; UG/L, micrograms per liter]

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|
| **SITE 1 (LAT 30 02 03N LONG 090 25 48W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 1755 | 2.0 | 307 | 8.0 | -- | 25.0 | 10.0 |
| 26... | 1130 | -- | 332 | 7.6 | 0.2 | 22.5 | 7.3 |
| **SITE 2 (LAT 30 02 11N LONG 090 24 36W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 1840 | 2.0 | 308 | 7.5 | -- | 24.5 | 8.1 |
| 26... | 1200 | 2.0 | 332 | 7.6 | 0.2 | 23.0 | 7.4 |
| **SITE 3 (LAT 30 02 58N LONG 090 23 50W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 1540 | 2.0 | 308 | 7.8 | -- | 25.5 | 9.4 |
| 26... | 1300 | 2.0 | 331 | 7.8 | -- | 22.5 | 8.5 |
| **SITE 4 (LAT 30 03 09N LONG 090 23 36W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 1415 | 3.5 | 309 | 7.3 | -- | 23.5 | 8.3 |
| 18... | 1420 | 3.5 | 309 | 7.3 | -- | 23.5 | 8.3 |
| 26... | 1345 | 3.9 | 334 | 7.5 | -- | 24.0 | 7.6 |
| **SITE 5 (LAT 30 03 33N LONG 090 23 17W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 1330 | 4.0 | 309 | 7.2 | -- | 23.5 | 6.4 |
| 26... | 1430 | 4.3 | 333 | 7.4 | -- | 23.5 | 6.4 |

**Table 2.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the Bonnet Carré Spillway, Louisiana, May 18 and 26, 1994—Continued

| DATE | TIME | SPECIFIC CONDUCTANCE LAB (US/CM) | PH WATER WHOLE LAB (STANDARD UNITS) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY LAB (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|
| **SITE 1 (LAT 30 02 03N LONG 090 25 48W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1755 | 319 | 7.8 | 33 | 10 | 14 | 2.7 | 93 |
| 26... | 1130 | 345 | 7.6 | 37 | 11 | 14 | 2.6 | 102 |
| **SITE 2 (LAT 30 02 11N LONG 090 24 36W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1840 | 320 | 7.6 | 33 | 10 | 14 | 2.7 | 93 |
| 26... | 1200 | 345 | 7.6 | 37 | 11 | 14 | 2.6 | 102 |
| **SITE 3 (LAT 30 02 58N LONG 090 23 50W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1540 | 322 | 7.7 | 34 | 10 | 14 | 2.7 | 95 |
| 26... | 1300 | 346 | 7.6 | 39 | 11 | 14 | 2.7 | 103 |
| **SITE 4 (LAT 30 03 09N LONG 090 23 36W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1415 | 320 | 7.7 | 34 | 10 | 14 | 2.5 | 94 |
| 18... | 1420 | 321 | 7.7 | 34 | 10 | 14 | 2.5 | 94 |
| 26... | 1345 | 345 | 7.7 | 39 | 11 | 14 | 2.5 | 102 |
| **SITE 5 (LAT 30 03 33N LONG 090 23 17W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1330 | 321 | 7.6 | 34 | 10 | 14 | 2.3 | 95 |
| 26... | 1430 | 345 | 7.6 | 39 | 11 | 14 | 2.4 | 103 |

**Table 2.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the Bonnet Carré Spillway, Louisiana, May 18 and 26, 1994—Continued

| DATE | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) | CARBON, ORGANIC TOTAL (MG/L AS C) | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) |
|---|---|---|---|---|---|---|---|
| **SITE 1 (LAT 30 02 03N LONG 090 25 48W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 37 | 18 | 0.2 | 5.2 | 185 | 5.2 | 4.2 |
| 26... | 39 | 17 | 0.2 | 5.5 | 213 | 4.8 | 4.1 |
| **SITE 2 (LAT 30 02 11N LONG 090 24 36W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 35 | 16 | 0.2 | 5.4 | 182 | 5.7 | 4.0 |
| 26... | 40 | 18 | 0.2 | 5.8 | 214 | 4.9 | 4.9 |
| **SITE 3 (LAT 30 02 58N LONG 090 23 50W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 36 | 17 | 0.2 | 5.3 | 163 | 5.1 | 4.3 |
| 26... | 40 | 18 | 0.2 | 5.5 | 217 | 4.9 | 4.1 |
| **SITE 4 (LAT 30 03 09N LONG 090 23 36W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 36 | 17 | 0.2 | 5.3 | 177 | 5.1 | 3.8 |
| 18... | 34 | 16 | 0.2 | 5.3 | 161 | 5.3 | 4.3 |
| 26... | 40 | 18 | 0.2 | 5.6 | 218 | 4.6 | 3.9 |
| **SITE 5 (LAT 30 03 33N LONG 090 23 17W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 36 | 17 | 0.2 | 5.3 | 183 | 5.1 | 4.1 |
| 26... | 40 | 18 | 0.2 | 5.8 | 183 | 4.9 | 4.0 |

**Table 2.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the Bonnet Carré Spillway, Louisiana, May 18 and 26, 1994—Continued

| DATE | TIME | NITROGEN, NITRITE TOTAL (MG/L AS N) | NITROGEN, NITRITE DISSOLVED (MG/L AS N) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) |
|---|---|---|---|---|---|---|
| **SITE 1 (LAT 30 02 03N LONG 090 25 48W)** | | | | | | |
| MAY 1994 | | | | | | |
| 18... | 1755 | 0.02 | 0.01 | 0.94 | 0.94 | 0.04 |
| 26... | 1130 | 0.01 | 0.01 | 1.0 | 1.0 | 0.06 |
| **SITE 2 (LAT 30 02 11N LONG 090 24 36W)** | | | | | | |
| MAY 1994 | | | | | | |
| 18... | 1840 | 0.02 | 0.01 | 0.93 | 0.89 | 0.06 |
| 26... | 1200 | 0.02 | 0.01 | 1.1 | 1.1 | 0.06 |
| **SITE 3 (LAT 30 02 58N LONG 090 23 50W)** | | | | | | |
| MAY 1994 | | | | | | |
| 18... | 1540 | 0.02 | 0.02 | 0.85 | 0.85 | 0.05 |
| 26... | 1300 | 0.02 | 0.01 | 1.0 | 1.0 | 0.05 |
| **SITE 4 (LAT 30 03 09N LONG 090 23 36W)** | | | | | | |
| MAY 1994 | | | | | | |
| 18... | 1415 | 0.02 | 0.01 | 0.88 | 0.88 | 0.05 |
| 18... | 1420 | 0.02 | 0.01 | 0.88 | 0.83 | 0.04 |
| 26... | 1345 | 0.01 | 0.01 | 1.0 | 1.0 | 0.04 |
| **SITE 5 (LAT 30 03 33N LONG 090 23 17W)** | | | | | | |
| MAY 1994 | | | | | | |
| 18... | 1330 | 0.02 | 0.02 | 0.75 | 0.75 | 0.05 |
| 26... | 1430 | 0.02 | 0.01 | 0.93 | 0.95 | 0.04 |

**Table 2.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the Bonnet Carré Spillway, Louisiana, May 18 and 26, 1994—Continued

| DATE | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) | NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) | PHOS-PHORUS TOTAL (MG/L AS P) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) | PHOS-PHORUS ORTHO TOTAL (MG/L AS P) | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) | CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) | CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| **SITE 1 (LAT 30 02 03N LONG 090 25 48W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 18... | 0.04 | 0.42 | 0.29 | 0.12 | 0.07 | 0.10 | 0.06 | 1.3 | <0.1 |
| 26... | 0.06 | 0.34 | 0.34 | 0.11 | 0.06 | 0.09 | 0.06 | 3.0 | 0.3 |
| **SITE 2 (LAT 30 02 11N LONG 090 24 36W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 18... | 0.06 | 0.47 | 0.33 | 0.11 | 0.06 | 0.09 | 0.04 | 1.6 | <0.1 |
| 26... | 0.06 | 0.98 | 0.28 | 0.11 | 0.05 | 0.08 | 0.05 | 2.9 | 0.4 |
| **SITE 3 (LAT 30 02 58N LONG 090 23 50W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 18... | 0.05 | 0.47 | 0.31 | 0.12 | 0.06 | 0.09 | 0.05 | 3.5 | 0.1 |
| 26... | 0.05 | 0.48 | 0.28 | 0.10 | 0.07 | 0.09 | 0.05 | 2.9 | 0.3 |
| **SITE 4 (LAT 30 03 09N LONG 090 23 36W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 18... | 0.05 | 0.40 | 0.26 | 0.11 | 0.06 | 0.09 | 0.05 | 1.8 | <0.1 |
| 18... | 0.04 | 0.40 | 0.35 | 0.10 | 0.05 | 0.09 | 0.05 | 1.5 | <0.1 |
| 26... | 0.04 | 0.37 | 0.24 | 0.10 | 0.05 | 0.08 | 0.05 | 2.6 | 0.3 |
| **SITE 5 (LAT 30 03 33N LONG 090 23 17W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 18... | 0.04 | 0.49 | 0.32 | 0.11 | 0.05 | 0.08 | 0.04 | 2.4 | <0.1 |
| 26... | 0.04 | 0.38 | 0.27 | 0.09 | 0.05 | 0.08 | 0.05 | 2.6 | 0.3 |

**Table 2.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the Bonnet Carré Spillway, Louisiana, May 18 and 26, 1994—Continued

| DATE | TIME | ALACHLOR, WATER, DISS, REC, (UG/L) | AMETRYN WATER, DISS, REC, (UG/L) | ATRAZINE, WATER, DISS, REC (UG/L) | CYANAZINE, WATER, DISS, REC (UG/L) | DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) | DEISOPROPYL ATRAZIN WATER, DISS, REC (UG/L) |
|---|---|---|---|---|---|---|---|
| **SITE 1 (LAT 30 02 03N LONG 090 25 48W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 1755 | 0.19 | <0.05 | 1.7 | 0.7 | 0.09 | <0.05 |
| 26... | 1130 | 0.08 | <0.05 | 1.2 | 0.6 | 0.10 | <0.05 |
| **SITE 2 (LAT 30 02 11N LONG 090 24 36W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 1840 | 0.14 | <0.05 | 1.4 | 0.6 | 0.09 | <0.05 |
| 26... | 1200 | 0.10 | <0.05 | 1.3 | 0.7 | 0.10 | <0.05 |
| **SITE 3 (LAT 30 02 58N LONG 090 23 50W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 1540 | 0.15 | <0.05 | 1.5 | 0.6 | 0.09 | <0.05 |
| 26... | 1300 | 0.08 | <0.05 | 1.2 | 0.6 | 0.10 | <0.05 |
| **SITE 4 (LAT 30 03 09N LONG 090 23 36W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 1415 | 0.15 | <0.05 | 1.4 | 0.5 | 0.07 | <0.05 |
| 18... | 1420 | 0.12 | <0.05 | 1.1 | 0.5 | 0.07 | <0.05 |
| 26... | 1345 | 0.08 | <0.05 | 1.1 | 0.6 | 0.10 | <0.05 |
| **SITE 5 (LAT 30 03 33N LONG 090 23 17W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 18... | 1330 | 0.13 | <0.05 | 1.3 | 0.5 | 0.08 | <0.05 |
| 26... | 1430 | 0.08 | <0.05 | 1.1 | 0.6 | 0.09 | <0.05 |

**Table 2.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the Bonnet Carré Spillway, Louisiana, May 18 and 26, 1994—Continued

| DATE | METO-LACHLOR WATER DISSOLV (UG/L) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) | PROP-AZINE WATER DISS REC (UG/L) | SI-MAZINE, WATER, DISS, REC (UG/L) | PRO-METON, WATER, DISS, REC (UG/L) | PRO-METRYN, WATER, DISS, REC (UG/L) |
|---|---|---|---|---|---|---|
| **SITE 1 (LAT 30 02 03N LONG 090 25 48W)** | | | | | | |
| MAY 1994 | | | | | | |
| 18... | 0.84 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 |
| 26... | 0.40 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 |
| **SITE 2 (LAT 30 02 11N LONG 090 24 36W)** | | | | | | |
| MAY 1994 | | | | | | |
| 18... | 0.68 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 |
| 26... | 0.46 | <0.05 | <0.05 | 0.13 | <0.05 | <0.05 |
| **SITE 3 (LAT 30 02 58N LONG 090 23 50W)** | | | | | | |
| MAY 1994 | | | | | | |
| 18... | 0.74 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 |
| 26... | 0.39 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 |
| **SITE 4 (LAT 30 03 09N LONG 090 23 36W)** | | | | | | |
| MAY 1994 | | | | | | |
| 18... | 0.72 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 |
| 18... | 0.56 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 |
| 26... | 0.39 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 |
| **SITE 5 (LAT 30 03 33N LONG 090 23 17W)** | | | | | | |
| MAY 1994 | | | | | | |
| 18... | 0.64 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 |
| 26... | 0.38 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994

[M, meter; US/CM, microsiemens per centimeter at 25 degrees Celsius; MV, millivolts; PPT, parts per thousand; DEG C, degrees Celsius; MG/L, milligrams per liter]

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 03 22N LONG 090 22 31W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1023 | 0.70 | 332 | 6.9 | 374 | -- | 22.5 | 7.0 |
| 13... | 1024 | 1.8 | 340 | 6.9 | 375 | -- | 22.0 | 7.0 |
| **LAT 30 03 43N LONG 090 22 52W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1038 | 0.70 | 336 | 7.2 | 358 | -- | 23.5 | 7.1 |
| 13... | 1039 | 1.6 | 335 | 7.2 | 357 | -- | 23.5 | 7.2 |
| **LAT 30 04 24N LONG 090 21 37W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1047 | 0.30 | 2220 | 7.9 | 337 | -- | 28.0 | 8.4 |
| 13... | 1048 | 3.3 | 2250 | 7.8 | 344 | -- | 27.5 | 7.9 |
| 13... | 1049 | 6.6 | 2280 | 7.6 | 348 | -- | 27.0 | 7.7 |
| **LAT 30 04 13N LONG 090 22 06W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1055 | 0.30 | 1700 | 7.6 | 348 | -- | 27.5 | 7.8 |
| 13... | 1056 | 2.0 | 1580 | 7.6 | 350 | -- | 27.0 | 7.5 |
| 13... | 1057 | 3.6 | 650 | 7.6 | 344 | -- | 23.5 | 7.2 |
| **LAT 30 04 55N LONG 090 23 07W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1109 | 0.70 | 415 | 7.7 | 352 | -- | 26.0 | 9.1 |
| 13... | 1110 | 3.6 | 365 | 7.6 | 361 | -- | 24.5 | 7.9 |
| 13... | 1111 | 6.6 | 325 | 7.5 | 364 | -- | 22.0 | 6.6 |
| **LAT 30 05 59N LONG 090 25 04W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1117 | 0.30 | 605 | 8.4 | 324 | -- | 29.0 | 10.5 |
| 13... | 1118 | 1.3 | 621 | 8.3 | 326 | -- | 29.0 | 10.4 |
| **LAT 30 06 28N LONG 090 23 30W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1128 | 0.30 | 672 | 8.1 | 343 | -- | 27.0 | 10.0 |
| 13... | 1129 | 2.6 | 680 | 8.0 | 346 | -- | 25.5 | 9.6 |
| 13... | 1130 | 7.5 | 1320 | 7.8 | 357 | -- | 26.0 | 6.3 |
| **LAT 30 07 22N LONG 090 21 09W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1140 | 0.30 | 1190 | 8.2 | 338 | -- | 27.0 | 10.4 |
| 13... | 1141 | 5.6 | 1170 | 7.9 | 353 | -- | 26.0 | 8.6 |
| 13... | 1142 | 11.2 | 2100 | 8.0 | 357 | -- | 26.0 | 7.0 |
| **LAT 30 08 36N LONG 090 18 41W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1150 | 0.70 | 3180 | 8.1 | 349 | -- | 28.0 | 8.7 |
| 13... | 1151 | 5.6 | 3170 | 8.0 | 351 | -- | 27.5 | 8.7 |
| 13... | 1152 | 11.5 | 3200 | 7.9 | 362 | -- | 26.5 | 7.5 |
| **LAT 30 11 27N LONG 090 21 21W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1208 | 0.30 | 2620 | 7.9 | 352 | -- | 28.0 | 8.9 |
| 13... | 1209 | 5.9 | 2620 | 7.7 | 361 | -- | 27.0 | 8.4 |
| 13... | 1210 | 10.2 | 2640 | 7.7 | 361 | -- | 27.0 | 7.7 |
| **LAT 30 13 03N LONG 090 23 33W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1221 | 0.30 | 2530 | 7.8 | 342 | -- | 29.5 | 8.6 |
| 13... | 1222 | 3.9 | 2540 | 7.8 | 343 | -- | 29.0 | 8.5 |
| 13... | 1223 | 6.9 | 2550 | 7.7 | 346 | -- | 29.0 | 7.5 |
| **LAT 30 13 16N LONG 090 23 39W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1226 | 2.3 | 2500 | 7.6 | 361 | -- | 29.5 | 8.0 |
| **LAT 30 08 12N LONG 090 25 22W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1302 | 0.30 | 1190 | 8.7 | 305 | -- | 29.0 | 11.7 |
| 13... | 1303 | 3.6 | 1190 | 8.6 | 307 | -- | 29.0 | 11.2 |
| 13... | 1304 | 7.9 | 1710 | 8.3 | 319 | -- | 28.5 | 9.2 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 08 12N LONG 090 25 46W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1308 | 0.30 | 1830 | 8.7 | 301 | -- | 30.5 | 10.2 |
| 13... | 1309 | 2.6 | 1850 | 8.6 | 300 | -- | 30.5 | 10.0 |
| **LAT 30 07 27N LONG 090 25 10W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1313 | 0.30 | 1040 | 8.6 | 302 | -- | 28.5 | 11.8 |
| 13... | 1314 | 3.6 | 1050 | 8.7 | 305 | -- | 28.5 | 12.2 |
| 13... | 1315 | 7.9 | 1520 | 8.2 | 324 | -- | 28.0 | 5.8 |
| **LAT 30 04 28N LONG 090 21 56W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1333 | 0.30 | 1980 | 8.5 | 324 | -- | 28.0 | 10.3 |
| 13... | 1334 | 3.0 | 1950 | 8.4 | 328 | -- | 27.5 | 10.0 |
| 13... | 1335 | 6.2 | 410 | 8.0 | 344 | -- | 23.5 | 7.9 |
| **LAT 30 03 48N LONG 090 21 12W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1340 | 0.70 | 1390 | 8.5 | 319 | -- | 29.5 | 10.0 |
| **LAT 30 04 18N LONG 090 20 45W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1352 | 0.70 | 2780 | 8.7 | 323 | -- | 28.5 | 10.2 |
| 13... | 1353 | 3.6 | 2780 | 8.7 | 325 | -- | 28.5 | 10.1 |
| 13... | 1354 | 7.2 | 2700 | 8.5 | 333 | -- | 27.5 | 9.2 |
| **LAT 30 03 44N LONG 090 21 22W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1402 | 0.70 | 2250 | 8.9 | 300 | -- | 29.0 | 11.7 |
| 13... | 1403 | 2.3 | 2260 | 8.9 | 299 | -- | 28.5 | 11.6 |
| 13... | 1404 | 5.2 | 2240 | 8.8 | 299 | -- | 28.5 | 11.1 |
| **LAT 30 03 35N LONG 090 21 35W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1409 | 1.3 | 1850 | 8.5 | 308 | -- | 29.0 | 10.4 |
| **LAT 30 04 47N LONG 090 21 05W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1430 | 0.30 | 2720 | 8.8 | 314 | -- | 28.5 | 10.5 |
| 13... | 1431 | 3.6 | 2670 | 8.8 | 315 | -- | 28.5 | 10.4 |
| 13... | 1432 | 7.5 | 2500 | 8.6 | 321 | -- | 27.5 | 9.8 |
| **LAT 30 05 32N LONG 090 22 35W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1443 | 0.30 | 1270 | 8.2 | 347 | -- | 27.0 | 10.2 |
| 13... | 1444 | 3.9 | 970 | 7.9 | 363 | -- | 26.0 | 7.6 |
| 13... | 1445 | 7.2 | 348 | 7.8 | 363 | -- | 23.5 | 5.9 |
| **LAT 30 06 03N LONG 090 22 10W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1500 | 0.30 | 1860 | 8.8 | 317 | -- | 28.0 | 12.1 |
| 13... | 1501 | 5.2 | 1600 | 8.4 | 331 | -- | 27.0 | 10.0 |
| 13... | 1502 | 9.2 | 1330 | 7.9 | 357 | -- | 25.5 | 5.8 |
| **LAT 30 08 03N LONG 090 25 02W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1524 | 0.30 | 1250 | 8.9 | 297 | -- | 29.0 | 12.8 |
| 13... | 1525 | 4.6 | 1290 | 8.8 | 298 | -- | 29.0 | 12.4 |
| 13... | 1526 | 8.8 | 1580 | 8.0 | 333 | -- | 28.0 | 6.7 |
| **LAT 30 07 00N LONG 090 23 07W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 13... | 1534 | 0.70 | 810 | 8.6 | 320 | -- | 27.0 | 12.3 |
| 13... | 1535 | 3.9 | 795 | 8.5 | 323 | -- | 27.0 | 11.7 |
| 13... | 1536 | 9.5 | 1640 | 7.7 | 361 | -- | 26.0 | 5.2 |
| **LAT 30 03 16N LONG 090 22 36W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1150 | 0.30 | 322 | 7.1 | 429 | 0.2 | 24.0 | 8.3 |
| 16... | 1151 | 8.2 | 330 | 7.1 | 432 | 0.2 | 23.0 | 7.7 |
| 16... | 1152 | 16.4 | 335 | 7.0 | 430 | 0.2 | 22.5 | 7.5 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 03 53N LONG 090 22 31W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1217 | 0.30 | 478 | 7.3 | 398 | 0.2 | 26.0 | 8.0 |
| 16... | 1218 | 1.6 | 470 | 7.3 | 399 | 0.2 | 25.5 | 7.9 |
| 16... | 1219 | 3.0 | 400 | 7.3 | 400 | 0.2 | 24.5 | 8.0 |
| **LAT 30 03 52N LONG 090 21 40W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1230 | 0.30 | 1150 | 8.2 | 356 | 0.6 | 27.0 | 11.1 |
| 16... | 1231 | 3.0 | 1280 | 8.1 | 358 | 0.7 | 27.0 | 10.7 |
| 16... | 1232 | 5.2 | 1980 | 7.8 | 374 | 1.0 | 27.5 | 8.6 |
| **LAT 30 03 34N LONG 090 21 40W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1245 | 0.30 | 2580 | 8.1 | 357 | 1.4 | 29.5 | 9.3 |
| 16... | 1246 | 0.70 | 2600 | 8.1 | 357 | 1.4 | 29.5 | 9.2 |
| 16... | 1247 | 1.3 | 2620 | 8.1 | 359 | 1.4 | 29.5 | 9.2 |
| **LAT 30 04 22N LONG 090 22 05W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1300 | 0.30 | 430 | 8.3 | 366 | 0.2 | 26.5 | 13.2 |
| 16... | 1301 | 3.0 | 410 | 8.2 | 375 | 0.2 | 26.5 | 11.4 |
| 16... | 1302 | 6.2 | 335 | 7.5 | 407 | 0.2 | 24.0 | 7.3 |
| **LAT 30 04 18N LONG 090 21 45W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1315 | 0.30 | 485 | 8.5 | 367 | 0.2 | 26.5 | 13.4 |
| 16... | 1316 | 3.3 | 480 | 8.3 | 372 | 0.2 | 26.5 | 13.1 |
| 16... | 1317 | 6.6 | 345 | 7.5 | 411 | 0.2 | 24.0 | 7.6 |
| **LAT 30 04 11N LONG 090 21 17W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1320 | 0.30 | 1110 | -- | 387 | 0.5 | 26.5 | 10.3 |
| 16... | 1321 | 3.9 | 1100 | -- | 389 | 0.5 | 26.5 | 10.2 |
| 16... | 1322 | 7.5 | 390 | 7.5 | 405 | 0.2 | 24.0 | 7.0 |
| **LAT 30 04 06N LONG 090 20 47W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1325 | 0.30 | 2900 | 8.0 | 376 | 1.6 | 29.0 | 9.5 |
| 16... | 1326 | 3.9 | 2910 | 7.9 | 380 | 1.6 | 29.0 | 9.4 |
| 16... | 1327 | 8.2 | 2820 | 7.8 | 395 | 1.5 | 28.0 | 8.0 |
| **LAT 30 04 37N LONG 090 20 47W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1335 | 0.30 | 438 | 8.4 | 366 | 0.2 | 26.6 | 13.5 |
| 16... | 1336 | 3.9 | 398 | 8.1 | 375 | 0.2 | 26.1 | 12.2 |
| 16... | 1337 | 7.5 | 345 | 7.6 | 408 | 0.2 | 23.9 | 7.2 |
| **LAT 30 04 51N LONG 090 23 48W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1340 | 0.30 | 571 | 8.7 | 357 | 0.3 | 28.5 | 13.8 |
| 16... | 1341 | 2.6 | 565 | 8.6 | 360 | 0.3 | 28.5 | 13.6 |
| 16... | 1342 | 5.2 | 515 | 8.4 | 374 | 0.3 | 28.0 | 12.3 |
| **LAT 30 05 03N LONG 090 24 22W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1347 | 0.30 | 520 | 8.5 | 360 | 0.3 | 29.5 | 12.0 |
| 16... | 1348 | 1.0 | 525 | 8.5 | 360 | 0.3 | 29.5 | 12.0 |
| 16... | 1349 | 2.0 | 525 | 8.5 | 360 | 0.3 | 29.5 | 12.0 |
| **LAT 30 05 34N LONG 090 23 51W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1355 | 0.30 | 695 | 8.8 | 353 | 0.4 | 28.5 | 13.7 |
| 16... | 1356 | 3.6 | 695 | 8.7 | 355 | 0.4 | 28.5 | 13.7 |
| 16... | 1357 | 6.9 | 750 | 8.0 | 390 | 0.4 | 28.0 | 8.0 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 05 54N LONG 090 24 40W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1400 | 0.30 | 850 | 8.8 | 347 | 0.4 | 29.0 | 13.2 |
| 16... | 1401 | 3.6 | 848 | 8.7 | 347 | 0.4 | 29.0 | 13.1 |
| 16... | 1402 | 7.2 | 840 | 8.4 | 363 | 0.4 | 28.5 | 10.2 |
| **LAT 30 05 56N LONG 090 25 05W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1405 | 0.30 | 620 | 8.4 | 351 | 0.3 | 29.5 | 11.2 |
| 16... | 1406 | 1.0 | 620 | 8.4 | 350 | 0.3 | 29.5 | 11.2 |
| 16... | 1407 | 2.0 | 625 | 8.5 | 348 | 0.3 | 29.5 | 11.2 |
| **LAT 30 05 17N LONG 090 22 53W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1415 | 0.30 | 840 | 8.8 | 343 | 0.4 | 28.0 | 14.5 |
| 16... | 1416 | 3.6 | 835 | 8.6 | 344 | 0.4 | 27.5 | 14.4 |
| 16... | 1417 | 7.5 | 358 | 7.8 | 393 | 0.2 | 24.0 | 7.1 |
| **LAT 30 05 04N LONG 090 22 00W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1420 | 0.30 | 608 | 8.5 | 356 | 0.3 | 27.0 | 13.5 |
| 16... | 1421 | 3.9 | 610 | 8.4 | 358 | 0.3 | 27.0 | 13.4 |
| 16... | 1422 | 7.9 | 350 | 7.7 | 396 | 0.2 | 23.5 | 7.4 |
| **LAT 30 04 48N LONG 090 21 13W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1425 | 0.30 | 580 | -- | 381 | 0.3 | 26.5 | 11.0 |
| 16... | 1426 | 4.3 | 580 | -- | 384 | 0.3 | 26.5 | 10.8 |
| 16... | 1427 | 8.8 | 340 | 7.7 | 397 | 0.2 | 24.0 | 6.6 |
| **LAT 30 04 28N LONG 090 20 22W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1430 | 0.30 | 2940 | 8.0 | 377 | 1.6 | 28.5 | 9.7 |
| 16... | 1431 | 5.2 | 3050 | 7.9 | 384 | 1.7 | 28.5 | 9.4 |
| 16... | 1432 | 10.5 | 3020 | 7.9 | 396 | 1.6 | 28.1 | 7.6 |
| **LAT 30 05 10N LONG 060 26 12W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1440 | 0.30 | 1670 | -- | 382 | 0.9 | 27.5 | 10.3 |
| 16... | 1441 | 5.6 | 1650 | -- | 388 | 0.9 | 27.0 | 9.6 |
| 16... | 1442 | 11.2 | 3030 | 7.7 | 398 | 1.6 | 27.6 | 7.2 |
| **LAT 30 06 04N LONG 090 20 00W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1450 | 0.30 | 2770 | 7.9 | 384 | 1.5 | 28.0 | 9.9 |
| 16... | 1451 | 5..9 | 2970 | 7.7 | 396 | 1.6 | 28.0 | 9.4 |
| 16... | 1452 | 11.8 | 3220 | 7.7 | 403 | 1.7 | 27.5 | 7.7 |
| **LAT 30 04 37N LONG 090 19 37W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1500 | 0.30 | 3230 | 7.6 | 399 | 1.7 | 28.5 | 9.0 |
| 16... | 1501 | 5.2 | 3250 | 7.5 | 405 | 1.8 | 28.5 | 8.9 |
| 16... | 1502 | 10.5 | 3160 | 7.5 | 415 | 1.7 | 28.0 | 6.9 |
| **LAT 30 05 14N LONG 090 20 48W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1505 | 0.30 | 500 | -- | 388 | 0.3 | 26.5 | 11.0 |
| 16... | 1506 | 5.6 | 495 | -- | 393 | 0.2 | 26.0 | 10.6 |
| 16... | 1507 | 10.5 | 385 | 7.3 | 411 | 0.2 | 24.5 | 6.5 |
| **LAT 30 05 51N LONG 090 21 44W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1515 | 0.30 | 950 | 8.5 | 361 | 0.5 | 27.5 | 12.9 |
| 16... | 1516 | 4.9 | 950 | 8.4 | 365 | 0.5 | 27.5 | 12.8 |
| 16... | 1517 | 9.8 | 900 | 7.4 | 409 | 0.5 | 25.5 | 5.0 |
| **LAT 30 06 37N LONG 090 23 07W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1520 | 0.30 | 1320 | 8.7 | 348 | 0.7 | 28.0 | 12.8 |
| 16... | 1521 | 4.9 | 1330 | 8.6 | 351 | 0.7 | 28.0 | 12.6 |
| 16... | 1522 | 9.8 | 1255 | 7.9 | 387 | 0.7 | 27.0 | 9.2 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 06 49N LONG 090 24 36W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1530 | 0.30 | 1040 | 8.7 | 346 | 0.5 | 28.5 | 12.8 |
| 16... | 1531 | 4.6 | 1040 | 8.6 | 349 | 0.5 | 28.5 | 12.6 |
| 16... | 1532 | 8.8 | 1020 | 8.0 | 377 | 0.5 | 27.5 | 9.1 |
| **LAT 30 06 39N LONG 090 25 16W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1545 | 0.30 | 840 | 8.8 | 340 | 0.4 | 29.0 | 12.6 |
| 16... | 1546 | 2.3 | 840 | 8.8 | 341 | 0.4 | 29.0 | 12.5 |
| 16... | 1547 | 4.6 | 850 | 8.7 | 342 | 0.4 | 29.0 | 12.1 |
| **LAT 30 07 26N LONG 090 24 57W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1550 | 0.30 | 1200 | 8.6 | 356 | 0.6 | 28.5 | 11.7 |
| 16... | 1551 | 4.6 | 1230 | 8.6 | 357 | 0.6 | 28.5 | 11.8 |
| 16... | 1552 | 9.2 | 1230 | 8.2 | 385 | 0.6 | 28.0 | 8.3 |
| **LAT 30 06 42N LONG 090 22 33W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1600 | 0.30 | 1360 | 8.7 | 347 | 0.7 | 28.0 | 13.1 |
| 16... | 1601 | 4.9 | 1360 | 8.4 | 354 | 0.7 | 28.0 | 12.6 |
| 16... | 1602 | 10.2 | 1400 | 7.7 | 396 | 0.7 | 26.5 | 5.7 |
| **LAT 30 06 30N LONG 090 20 50W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1605 | 0.30 | 1050 | -- | 382 | 0.5 | 27.0 | 11.2 |
| 16... | 1606 | 5.6 | 1060 | -- | 388 | 0.6 | 27.0 | 10.1 |
| 16... | 1607 | 11.2 | 2410 | 8.0 | 395 | 1.3 | 27.5 | 6.9 |
| **LAT 30 07 19N LONG 090 17 21W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 16... | 1625 | 0.30 | 3910 | 7.6 | 401 | 2.1 | 28.0 | 9.0 |
| 16... | 1626 | 6.2 | 3900 | 7.6 | 402 | 2.2 | 28.0 | 8.9 |
| 16... | 1627 | 12.8 | 3800 | 7.8 | 400 | 2.1 | 27.5 | 7.7 |
| **LAT 30 04 11N LONG 090 22 11W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1215 | 0.30 | 405 | 6.6 | 410 | 0.2 | 24.5 | 7.9 |
| 18... | 1216 | 2.3 | 408 | 6.4 | 412 | 0.2 | 24.0 | 7.9 |
| 18... | 1217 | 4.6 | 410 | 6.2 | 416 | 0.2 | 24.0 | 7.9 |
| **LAT 30 03 58N LONG 090 21 35W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1220 | 0.30 | 1160 | 7.2 | 400 | 0.6 | 25.0 | 8.2 |
| 18... | 1221 | 3.3 | 1110 | 7.1 | 402 | 0.6 | 24.5 | 8.2 |
| 18... | 1222 | 6.6 | 2500 | 7.1 | 406 | 1.2 | 26.0 | 7.5 |
| **LAT 30 03 43N LONG 090 21 49W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1225 | 0.30 | 2860 | 7.4 | 394 | 1.5 | 27.5 | 8.1 |
| 18... | 1226 | 1.0 | 2910 | 7.4 | 396 | 1.6 | 27.0 | 8.0 |
| 18... | 1227 | 2.3 | 2920 | 7.3 | 399 | 1.6 | 27.0 | 8.0 |
| **LAT 30 04 02N LONG 090 21 55W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1230 | 0.30 | 960 | 7.2 | 405 | 0.5 | 24.5 | 8.0 |
| 18... | 1231 | 2.6 | 890 | 7.2 | 405 | 0.5 | 24.5 | 8.0 |
| 18... | 1232 | 5.6 | 1260 | 7.2 | 404 | 0.7 | 24.5 | 7.8 |
| **LAT 30 03 44N LONG 090 22 14W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1240 | 0.30 | 2960 | 7.6 | 392 | 1.6 | 27.5 | 8.5 |
| 18... | 1241 | 1.0 | 2580 | 7.5 | 393 | 1.4 | 27.0 | 8.7 |
| 18... | 1242 | 2.0 | 2840 | 7.5 | 400 | 1.6 | 27.0 | 8.0 |
| **LAT 30 03 46N LONG 090 22 29W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1250 | 0.30 | 3420 | 7.4 | 398 | 1.9 | 27.5 | 8.1 |
| 18... | 1251 | 1.3 | 3440 | 7.4 | 399 | 1.9 | 27.5 | 8.0 |
| 18... | 1252 | 2.6 | 3470 | 7.5 | 401 | 1.9 | 27.0 | 7.8 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 03 53N LONG 090 22 37W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1300 | 0.30 | 387 | 7.0 | 402 | 0.2 | 23.5 | 7.4 |
| 18... | 1301 | 1.6 | 480 | 7.0 | 399 | 0.2 | 23.0 | 7.3 |
| 18... | 1302 | 2.3 | 460 | 7.0 | 401 | 0.2 | 23.0 | 7.2 |
| 18... | 1303 | 3.3 | 3200 | 7.1 | 400 | 1.7 | 25.5 | 7.5 |
| **LAT 30 03 55N LONG 090 22 46W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1305 | 0.30 | 380 | 7.1 | 411 | 0.2 | 23.5 | 7.5 |
| 18... | 1306 | 1.6 | 380 | 7.1 | 411 | 0.2 | 23.0 | 7.4 |
| 18... | 1307 | 3.6 | 380 | 7.1 | 411 | 0.2 | 22.5 | 7.3 |
| **LAT 30 03 57N LONG 090 22 39W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1315 | 0.30 | 1240 | 7.2 | 402 | 0.6 | 25.0 | 7.0 |
| 18... | 1316 | 1.6 | 610 | 7.2 | 403 | 0.3 | 24.0 | 7.5 |
| 18... | 1317 | 2.3 | 1000 | 7.2 | 405 | 0.6 | 24.0 | 7.5 |
| 18... | 1318 | 3.6 | 2650 | 7.3 | 402 | 1.6 | 25.0 | 7.9 |
| **LAT 30 04 02N LONG 090 22 39W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1330 | 0.30 | 375 | 7.1 | 409 | 0.2 | 24.0 | 7.6 |
| 18... | 1331 | 2.3 | 380 | 7.2 | 404 | 0.2 | 23.5 | 7.6 |
| 18... | 1332 | 4.6 | 2080 | 7.3 | 407 | 1.1 | 24.5 | 7.3 |
| **LAT 30 04 04N LONG 090 22 37W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1340 | 0.30 | 1220 | 7.6 | 383 | 0.7 | 27.0 | 9.8 |
| 18... | 1341 | 2.6 | 1200 | 7.3 | 407 | 0.8 | 24.5 | 7.6 |
| 18... | 1342 | 5.2 | 2010 | 7.4 | 404 | 1.1 | 25.0 | 7.7 |
| **LAT 30 04 04N LONG 090 20 37W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1350 | 0.30 | 760 | 7.6 | 393 | 0.4 | 26.5 | 9.8 |
| 18... | 1351 | 4.3 | 765 | 7.4 | 404 | 0.4 | 25.0 | 8.6 |
| 18... | 1352 | 8.8 | 580 | 7.3 | 411 | 0.3 | 24.0 | 7.8 |
| **LAT 30 03 34N LONG 090 21 05W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1355 | 0.30 | 2200 | 7.8 | 377 | 1.2 | 28.0 | 9.8 |
| 18... | 1356 | 2.6 | 2800 | 7.7 | 386 | 1.4 | 28.0 | 9.1 |
| 18... | 1357 | 5.6 | 3590 | 7.7 | 396 | 1.9 | 27.0 | 8.1 |
| **LAT 30 03 54N LONG 090 19 36W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1400 | 0.30 | 1070 | 7.6 | 390 | 0.6 | 27.0 | 9.7 |
| 18... | 1401 | 4.9 | 1660 | 7.5 | 400 | 0.8 | 26.0 | 8.4 |
| 18... | 1402 | 9.8 | 3550 | 7.7 | 404 | 1.9 | 27.0 | 7.4 |
| **LAT 30 03 16N LONG 090 20 00W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1405 | 0.30 | 2720 | 7.9 | 377 | 1.5 | 28.5 | 9.8 |
| 18... | 1406 | 1.6 | 3650 | 7.5 | 400 | 2.0 | 28.0 | 8.0 |
| 18... | 1407 | 3.3 | 3690 | 7.6 | 400 | 2.0 | 27.5 | 7.6 |
| **LAT 30 03 35N LONG 090 18 15W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1415 | 0.30 | 1730 | 8.0 | 370 | 0.9 | 28.0 | 10.8 |
| 18... | 1416 | 4.3 | 2700 | 7.7 | 390 | 1.5 | 27.5 | 9.1 |
| 18... | 1417 | 8.5 | 3830 | 7.7 | 397 | 2.1 | 27.0 | 7.8 |
| **LAT 30 03 18N LONG 090 16 10W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1430 | 0.30 | 3700 | 7.6 | 399 | 2.0 | 28.5 | 8.6 |
| 18... | 1431 | 4.9 | 3750 | 7.6 | 403 | 2.1 | 27.5 | 8.3 |
| 18... | 1432 | 9.8 | 3900 | 7.8 | 398 | 2.1 | 27.0 | 7.4 |
| **LAT 30 03 57N LONG 090 17 58W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1440 | 0.30 | 1210 | 7.9 | 380 | 0.6 | 27.0 | 10.8 |
| 18... | 1441 | 5.2 | 2700 | 7.6 | 401 | 1.4 | 27.0 | 8.4 |
| 18... | 1442 | 10.5 | 3650 | 7.7 | 406 | 2.0 | 27.0 | 7.7 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 04 17N LONG 090 19 24W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1445 | 0.30 | 750 | 8.2 | 365 | 0.4 | 27.5 | 12.6 |
| 18... | 1446 | 5.2 | 1000 | 7.6 | 393 | 0.5 | 25.5 | 8.6 |
| 18... | 1447 | 10.5 | 3300 | 7.8 | 395 | 1.8 | 26.5 | 7.4 |
| **LAT 30 04 28N LONG 090 21 07W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1545 | 0.30 | 1000 | 7.8 | 381 | 0.5 | 27.5 | 10.4 |
| 18... | 1546 | 3.9 | 760 | 7.3 | 405 | 0.4 | 25.0 | 8.6 |
| 18... | 1547 | 7.9 | 640 | 7.1 | 414 | 0.3 | 23.5 | 7.7 |
| **LAT 30 04 44N LONG 090 22 10W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1550 | 0.30 | 1160 | 7.5 | 390 | 0.6 | 26.0 | 9.2 |
| 18... | 1551 | 3.9 | 1100 | 7.5 | 391 | 0.6 | 25.5 | 8.8 |
| 18... | 1552 | 7.9 | 2000 | 7.7 | 390 | 1.0 | 25.5 | 7.7 |
| **LAT 30 04 56N LONG 090 23 01W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1500 | 0.30 | 775 | 7.8 | 380 | 0.4 | 27.0 | 9.9 |
| 18... | 1501 | 3.6 | 760 | 7.6 | 387 | 0.4 | 26.5 | 9.5 |
| 18... | 1502 | 7.2 | 367 | 7.3 | 401 | 0.2 | 23.0 | 7.7 |
| **LAT 30 05 08N LONG 090 24 00W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1505 | 0.30 | 980 | 8.0 | 370 | 0.5 | 28.0 | 9.8 |
| 18... | 1506 | 3.0 | 985 | 8.0 | 369 | 0.5 | 28.0 | 9.8 |
| 18... | 1507 | 5.9 | 1290 | 6.9 | 373 | 0.6 | 27.5 | 9.3 |
| **LAT 30 05 07N LONG 090 24 29W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1510 | 0.30 | 1900 | 8.3 | 359 | 1.0 | 29.0 | 10.7 |
| 18... | 1511 | 0.60 | 1800 | 8.3 | 360 | 1.0 | 29.0 | 10.6 |
| 18... | 1512 | 1.3 | 1750 | 8.2 | 363 | 0.9 | 28.5 | 10.6 |
| **LAT 30 05 32N LONG 090 24 49W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1520 | 0.30 | 1420 | 8.3 | 357 | 0.8 | 29.0 | 10.6 |
| 18... | 1521 | 1.0 | 1390 | 8.2 | 357 | 0.7 | 29.0 | 10.6 |
| 18... | 1522 | 2.0 | 1360 | 8.2 | 356 | 0.7 | 29.0 | 10.7 |
| **LAT 30 05 39N LONG 090 23 23W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1630 | 0.30 | 937 | 8.0 | 387 | 0.5 | 27.5 | 9.3 |
| 18... | 1631 | 3.3 | 935 | 8.0 | 387 | 0.5 | 27.5 | 9.2 |
| 18... | 1632 | 6.6 | 935 | 7.9 | 393 | 0.5 | 27.5 | 8.6 |
| **LAT 30 05 27N LONG 090 22 20W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1635 | 0.30 | 1140 | 7.9 | 395 | 0.6 | 27.5 | 9.8 |
| 18... | 1636 | 4.3 | 1130 | 7.8 | 400 | 0.6 | 27.0 | 9.6 |
| 18... | 1637 | 8.5 | 755 | 7.6 | 420 | 0.4 | 23.5 | 7.2 |
| **LAT 30 05 18N LONG 090 21 48W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1640 | 0.30 | 1160 | 7.9 | 395 | 0.6 | 27.0 | 9.8 |
| 18... | 1641 | 3.6 | 1150 | 7.8 | 397 | 0.6 | 27.0 | 9.7 |
| 18... | 1642 | 7.2 | 1270 | 7.6 | 416 | 0.6 | 24.5 | 7.5 |
| **LAT 30 05 02N LONG 090 20 16W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1645 | 0.30 | 1330 | 8.0 | 397 | 0.7 | 27.5 | 10.0 |
| 18... | 1646 | 5.6 | 1170 | 7.8 | 412 | 0.6 | 27.0 | 9.2 |
| 18... | 1647 | 11.2 | 545 | 7.5 | 427 | 0.3 | 24.0 | 7.5 |
| **LAT 30 04 49N LONG 090 18 37W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1655 | 0.30 | 675 | 8.0 | 387 | 0.3 | 26.5 | 11.3 |
| 18... | 1656 | 5.9 | 720 | 7.6 | 411 | 0.3 | 25.0 | 8.2 |
| 18... | 1657 | 11.8 | 1150 | 7.8 | 405 | 0.8 | 26.5 | 7.8 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 04 38N LONG 090 17 06W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1700 | 0.30 | 1150 | 7.8 | 401 | 0.6 | 26.5 | 10.0 |
| 18... | 1701 | 4.9 | 1230 | 7.8 | 402 | 0.8 | 26.5 | 9.7 |
| 18... | 1702 | 9.8 | 3120 | 7.8 | 416 | 1.7 | 27.0 | 7.8 |
| **LAT 30 04 26N LONG 090 15 51W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1705 | 0.30 | 3170 | 7.8 | 402 | 1.7 | 28.0 | 9.4 |
| 18... | 1706 | 6.6 | 3310 | 7.7 | 410 | 1.9 | 28.0 | 9.0 |
| 18... | 1707 | 12.8 | 3670 | 7.6 | 419 | 2.0 | 27.0 | 7.6 |
| **LAT 30 05 06N LONG 090 16 49W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1715 | 0.30 | 915 | 7.7 | 383 | 0.5 | 26.5 | 9.5 |
| 18... | 1716 | 6.6 | 1050 | 7.6 | 385 | 0.5 | 26.0 | 9.3 |
| 18... | 1717 | 12.8 | 2100 | 7.6 | 411 | 1.1 | 26.5 | 7.6 |
| **LAT 30 06 05N LONG 090 16 30W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1725 | 0.30 | 1860 | 7.6 | 391 | 1.0 | 26.5 | 9.0 |
| 18... | 1726 | 6.6 | 1880 | 7.6 | 393 | 1.0 | 26.5 | 8.7 |
| 18... | 1727 | 13.1 | 3110 | 7.6 | 397 | 1.7 | 27.0 | 7.7 |
| **LAT 30 06 57N LONG 090 16 13W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1735 | 0.30 | 3950 | 7.5 | 398 | 2.2 | 27.5 | 8.6 |
| 18... | 1736 | 6.6 | 3920 | 7.5 | 398 | 2.1 | 27.5 | 8.6 |
| 18... | 1737 | 13.1 | 3920 | 7.6 | 397 | 2.1 | 27.5 | 8.4 |
| **LAT 30 07 30N LONG 090 17 23W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1745 | 0.30 | 3620 | 7.4 | 411 | 2.0 | 27.5 | 8.7 |
| 18... | 1746 | 6.6 | 3620 | 7.4 | 413 | 2.0 | 27.5 | 8.6 |
| 18... | 1747 | 13.1 | 3560 | 7.4 | 416 | 2.0 | 27.5 | 8.2 |
| **LAT 30 07 35N LONG 090 19 06W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1800 | 0.30 | 2780 | 7.7 | 401 | 1.5 | 27.5 | 9.1 |
| 18... | 1801 | 5.9 | 2750 | 7.6 | 405 | 1.5 | 27.5 | 9.0 |
| 18... | 1802 | 11.8 | 2860 | 7.5 | 416 | 1.5 | 27.0 | 7.9 |
| **LAT 30 07 44N LONG 090 20 38W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1805 | 0.30 | 2450 | 8.0 | 388 | 1.3 | 27.5 | 9.6 |
| 18... | 1806 | 5.9 | 2440 | 7.8 | 394 | 1.3 | 27.5 | 9.3 |
| 18... | 1807 | 11.8 | 2780 | 7.6 | 413 | 1.5 | 27.0 | 7.4 |
| **LAT 30 08 00N LONG 090 22 49W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1810 | 0.30 | 2210 | 7.7 | 406 | 1.2 | 27.5 | 9.0 |
| 18... | 1811 | 4.9 | 2250 | 7.7 | 406 | 1.2 | 27.5 | 9.0 |
| 18... | 1812 | 10.2 | 2290 | 7.6 | 408 | 1.1 | 27.5 | 8.8 |
| **LAT 30 07 43N LONG 090 25 15W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1820 | 0.30 | 1820 | 7.5 | 419 | 1.0 | 27.5 | 8.6 |
| 18... | 1821 | 4.6 | 1840 | 7.5 | 419 | 1.0 | 27.5 | 8.6 |
| 18... | 1822 | 9.2 | 1810 | 7.6 | 417 | 1.0 | 27.5 | 8.2 |
| **LAT 30 06 18N LONG 090 24 06W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1830 | 0.30 | 1150 | 7.8 | 405 | 0.6 | 27.5 | 8.8 |
| 18... | 1831 | 3.9 | 1150 | 7.7 | 407 | 0.6 | 27.5 | 8.8 |
| 18... | 1832 | 7.9 | 1240 | 7.6 | 412 | 0.7 | 27.5 | 8.4 |
| **LAT 30 05 41N LONG 090 23 16W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1835 | 0.30 | 980 | 7.9 | 400 | 0.5 | 27.5 | 9.2 |
| 18... | 1836 | 3.9 | 980 | 7.9 | 401 | 0.5 | 27.5 | 9.2 |
| 18... | 1837 | 7.9 | 950 | 7.8 | 403 | 0.5 | 27.0 | 8.9 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT)) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 05 20N LONG 090 22 18W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1835 | 0.30 | 1050 | 7.8 | 401 | 0.6 | 27.0 | 9.5 |
| 18... | 1836 | 3.9 | 1060 | 7.7 | 403 | 0.6 | 26.5 | 9.3 |
| 18... | 1837 | 8.2 | 700 | 7.6 | 418 | 0.3 | 24.0 | 6.7 |
| **LAT 30 05 08N LONG 090 21 25W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1840 | 0.30 | 1180 | 7.9 | 395 | 0.6 | 27.0 | 9.6 |
| 18... | 1841 | 4.6 | 1180 | 7.8 | 397 | 0.6 | 27.0 | 9.4 |
| 18... | 1842 | 9.2 | 1700 | 7.7 | 405 | 0.9 | 26.5 | 7.4 |
| **LAT 30 04 00N LONG 090 22 12W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1220 | 0.30 | 580 | 7.4 | 398 | 0.3 | 24.5 | 8.7 |
| 19... | 1221 | 1.3 | 577 | 7.3 | 400 | 0.3 | 24.5 | 8.6 |
| 19... | 1222 | 3.0 | 574 | 7.2 | 402 | 0.3 | 24.0 | 8.5 |
| **LAT 30 04 16N LONG 090 21 01W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1225 | 0.30 | 1438 | 7.7 | 378 | 0.8 | 25.0 | 8.7 |
| 19... | 1226 | 3.9 | 1440 | 7.7 | 379 | 0.8 | 25.0 | 8.8 |
| 19... | 1227 | 8.2 | 1460 | 7.7 | 379 | 0.8 | 25.0 | 8.6 |
| **LAT 30 03 49N LONG 090 21 32W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1230 | 0.30 | 1680 | 7.7 | 377 | 0.9 | 25.0 | 8.6 |
| 19... | 1231 | 2.6 | 1690 | 7.7 | 377 | 0.9 | 25.0 | 8.6 |
| 19... | 1232 | 4.9 | 1640 | 7.7 | 377 | 0.9 | 25.0 | 8.5 |
| **LAT 30 03 54N LONG 090 19 27W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1245 | 0.30 | 2770 | 7.7 | 380 | 1.5 | 26.0 | 8.5 |
| 19... | 1246 | 4.6 | 2760 | 7.7 | 380 | 1.5 | 26.0 | 8.5 |
| 19... | 1247 | 9.2 | 2760 | 7.8 | 380 | 1.5 | 26.0 | 8.6 |
| **LAT 30 03 20N LONG 090 19 45W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1250 | 0.30 | 3540 | 7.6 | 389 | 1.9 | 26.0 | 8.2 |
| 19... | 1251 | 2.3 | 3500 | 7.6 | 389 | 1.9 | 26.0 | 8.2 |
| 19... | 1252 | 4.9 | 3510 | 7.6 | 387 | 1.9 | 26.0 | 8.5 |
| **LAT 30 03 18N LONG 090 16 50W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1310 | 0.30 | 3880 | 7.4 | 389 | 2.1 | 26.5 | 8.1 |
| 19... | 1311 | 4.9 | 3850 | 7.4 | 389 | 2.1 | 26.5 | 8.1 |
| 19... | 1312 | 9.8 | 3880 | 7.5 | 387 | 2.1 | 26.0 | 8.1 |
| **LAT 30 04 48N LONG 090 17 40W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1325 | 0.30 | 2650 | 7.6 | 393 | 1.4 | 26.0 | 8.5 |
| 19... | 1326 | 5.9 | 2690 | 7.5 | 396 | 1.5 | 26.0 | 8.4 |
| 19... | 1327 | 12.1 | 2800 | 7.5 | 398 | 1.5 | 25.5 | 8.0 |
| **LAT 50 05 56N LONG 090 16 35W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1330 | 0.30 | 2800 | 7.5 | 390 | 1.5 | 26.0 | 8.4 |
| 19... | 1331 | 6.6 | 2870 | 7.5 | 390 | 1.5 | 26.0 | 8.4 |
| 19... | 1332 | 13.1 | 2770 | 7.5 | 390 | 1.5 | 25.5 | 8.1 |
| **LAT 30 06 24N LONG 090 15 50W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1350 | 0.30 | 3780 | 7.5 | 390 | 2.1 | 26.0 | 8.3 |
| 19... | 1351 | 6.6 | 3800 | 7.5 | 389 | 2.1 | 26.0 | 8.3 |
| 19... | 1352 | 13.4 | 3740 | 7.6 | 387 | 2.0 | 26.0 | 8.5 |
| **LAT 30 06 58N LONG 090 18 04W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1405 | 0.30 | 1670 | 7.6 | 393 | 1.0 | 25.5 | 8.6 |
| 19... | 1406 | 6.2 | 1800 | 7.5 | 395 | 1.0 | 25.5 | 8.5 |
| 19... | 1407 | 12.8 | 2890 | 7.5 | 400 | 1.6 | 26.0 | 8.2 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 08 01N LONG 090 19 41W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1410 | 0.30 | 3000 | 7.5 | 395 | 1.6 | 26.0 | 8.5 |
| 19... | 1411 | 5.6 | 3000 | 7.5 | 395 | 1.6 | 26.0 | 8.4 |
| 19... | 1412 | 11.2 | 3000 | 7.6 | 395 | 1.6 | 26.0 | 8.5 |
| **LAT 30 10 07N LONG 090 21 41W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1420 | 0.30 | 2500 | 7.5 | 409 | 1.3 | 26.0 | 8.3 |
| 19... | 1421 | 5.6 | 2600 | 7.5 | 410 | 1.4 | 26.0 | 8.3 |
| 19... | 1422 | 11.2 | 2400 | 7.5 | 410 | 1.3 | 25.5 | 7.8 |
| **LAT 30 08 27N LONG 090 22 21W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1430 | 0.30 | 2470 | 7.7 | 389 | 1.3 | 26.5 | 9.0 |
| 19... | 1431 | 5.2 | 2500 | 7.6 | 392 | 1.3 | 26.0 | 8.8 |
| 19... | 1432 | 10.8 | 2520 | 7.5 | 398 | 1.4 | 26.0 | 8.2 |
| **LAT 30 06 38N LONG 090 23 17W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1440 | 0.30 | 1960 | 7.6 | 392 | 1.1 | 26.0 | 8.5 |
| 19... | 1441 | 4.9 | 2000 | 7.6 | 393 | 1.1 | 26.0 | 8.4 |
| 19... | 1442 | 9.8 | 2100 | 7.5 | 394 | 1.1 | 26.0 | 8.2 |
| **LAT 30 05 23N LONG 090 22 42W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1445 | 0.30 | 700 | 7.6 | 401 | 0.4 | 24.0 | 9.2 |
| 19... | 1446 | 3.6 | 686 | 7.5 | 404 | 0.4 | 24.0 | 9.0 |
| 19... | 1447 | 7.5 | 578 | 7.4 | 408 | 0.3 | 23.0 | 8.2 |
| **LAT 30 04 05N LONG 090 20 09W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1100 | 0.30 | 2800 | 7.0 | 403 | 1.5 | 25.0 | 8.4 |
| 20... | 1101 | 4.9 | 2990 | 6.8 | 410 | 1.6 | 24.5 | 8.1 |
| 20... | 1102 | 9.8 | 3080 | 6.7 | 416 | 1.7 | 24.5 | 7.6 |
| **LAT 30 02 54N LONG 090 16 47W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1115 | 0.30 | 4010 | 7.3 | 391 | 2.2 | 23.5 | 8.5 |
| 20... | 1116 | 3.3 | 4000 | 7.3 | 392 | 2.2 | 23.0 | 8.4 |
| 20... | 1117 | 6.6 | 4010 | 7.3 | 390 | 2.2 | 23.0 | 8.4 |
| **LAT 30 01 31N LONG 0 90 16 46W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1120 | 0.30 | 3750 | 7.2 | 400 | 2.0 | 25.5 | 8.3 |
| 20... | 1121 | 3.3 | 3750 | 7.2 | 405 | 2.0 | 24.0 | 7.5 |
| 20... | 1122 | 6.6 | 3720 | 7.2 | 403 | 2.0 | 24.0 | 7.8 |
| **LAT 30 04 00N LONG 090 14 36W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1135 | 0.30 | 4200 | 7.3 | 387 | 2.3 | 25.5 | 8.4 |
| 20... | 1136 | 6.6 | 4200 | 7.3 | 388 | 2.3 | 25.0 | 8.2 |
| 20... | 1137 | 13.0 | 4200 | 7.3 | 387 | 2.3 | 25.0 | 8.4 |
| **LAT 30 03 44N LONG 090 12 39W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1145 | 0.30 | 4620 | 7.3 | 403 | 2.5 | 25.5 | 8.4 |
| 20... | 1146 | 6.6 | 4620 | 7.3 | 406 | 2.5 | 25.0 | 8.2 |
| 20... | 1147 | 13.0 | 4620 | 7.3 | 407 | 2.5 | 25.0 | 8.3 |
| **LAT 30 04 29N LONG 090 10 03W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1155 | 0.30 | 4900 | 7.3 | 408 | 2.7 | 25.5 | 8.5 |
| 20... | 1156 | 7.2 | 4950 | 7.3 | 410 | 2.7 | 25.0 | 8.3 |
| 20... | 1157 | 14.4 | 4930 | 7.3 | 410 | 2.7 | 25.0 | 8.3 |
| **LAT 30 08 03N LONG 090 08 07W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1215 | 0.30 | 5250 | 7.4 | 326 | 2.9 | 26.0 | 8.5 |
| 20... | 1216 | 7.9 | 5300 | 7.3 | 322 | 2.9 | 25.5 | 8.5 |
| 20... | 1217 | 15.7 | 5400 | 7.3 | 313 | 3.0 | 25.0 | 8.4 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 09 45N LONG 090 10 25W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1230 | 0.30 | 4600 | 7.3 | 394 | 2.5 | 25.5 | 8.4 |
| 20... | 1231 | 7.9 | 4500 | 7.3 | 396 | 2.5 | 25.0 | 8.3 |
| 20... | 1232 | 15.7 | 4520 | 7.3 | 396 | 2.5 | 25.0 | 8.4 |
| **LAT 30 10 50N LONG 090 12 23W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1235 | 0.30 | 4350 | 7.3 | 410 | 2.4 | 26.0 | 8.6 |
| 20... | 1236 | 7.2 | 4320 | 7.2 | 414 | 2.4 | 25.0 | 8.2 |
| 20... | 1237 | 14.4 | 4310 | 7.3 | 415 | 2.4 | 25.0 | 8.3 |
| **LAT 30 13 45N LONG 090 13 12W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1245 | 0.30 | 4020 | 7.3 | 416 | 2.2 | 26.5 | 8.8 |
| 20... | 1246 | 7.2 | 4020 | 7.2 | 422 | 2.2 | 25.0 | 8.3 |
| 20... | 1247 | 14.4 | 4040 | 7.3 | 423 | 2.2 | 25.0 | 8.3 |
| **LAT 30 16 37N LONG 090 15 33W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1300 | 0.30 | 2460 | 7.2 | 419 | 1.3 | 26.5 | 8.9 |
| 20... | 1301 | 5.2 | 2380 | 7.2 | 423 | 1.3 | 24.5 | 8.5 |
| 20... | 1302 | 12.5 | 2350 | 7.2 | 421 | 1.3 | 24.5 | 8.3 |
| **LAT 30 17 43N LONG 090 18 38W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1315 | 0.30 | 1340 | 7.1 | 427 | 0.7 | 27.5 | 8.4 |
| 20... | 1316 | 11.5 | 1600 | 7.1 | 427 | 0.9 | 26.5 | 8.0 |
| 20... | 1317 | 22.9 | 1600 | 7.1 | 426 | 0.9 | 26.0 | 7.8 |
| **LAT 30 16 34N LONG 090 17 28W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1325 | 0.30 | 1080 | 7.3 | 353 | 0.6 | 26.0 | 8.8 |
| 20... | 1326 | 4.3 | 1160 | 7.2 | 357 | 0.6 | 24.5 | 8.4 |
| 20... | 1327 | 8.5 | 2300 | 7.1 | 362 | 1.2 | 25.0 | 8.2 |
| **LAT 30 14 45N LONG 090 16 15W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1335 | 0.30 | 2590 | 7.4 | 388 | 1.4 | 27.0 | 9.5 |
| 20... | 1336 | 6.6 | 2520 | 7.2 | 404 | 1.4 | 25.0 | 8.5 |
| 20... | 1337 | 13.1 | 2600 | 7.2 | 406 | 1.4 | 24.5 | 8.7 |
| **LAT 30 18 18N LONG 090 15 57W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1350 | 0.30 | 2210 | 7.3 | 403 | 1.2 | 26.0 | 8.7 |
| 20... | 1351 | 4.9 | 2160 | 7.3 | 406 | 1.1 | 25.0 | 8.3 |
| 20... | 1352 | 9.8 | 2760 | 7.3 | 405 | 1.5 | 24.5 | 9.0 |
| **LAT 30 19 59N LONG 090 16 00W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1355 | 0.30 | 980 | 7.3 | 401 | 0.5 | 26.0 | 8.8 |
| 20... | 1356 | 2.6 | 980 | 7.2 | 404 | 0.5 | 26.0 | 8.8 |
| 20... | 1357 | 5.2 | 900 | 7.3 | 413 | 0.5 | 25.5 | 8.7 |
| **LAT 30 19 10N LONG 090 15 04W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1405 | 0.30 | 2900 | 7.4 | 405 | 1.6 | 26.5 | 9.0 |
| 20... | 1406 | 4.9 | 2730 | 7.3 | 410 | 1.5 | 25.5 | 9.2 |
| 20... | 1407 | 9.8 | 3400 | 7.3 | 419 | 1.8 | 24.5 | 8.9 |
| **LAT 30 16 01N LONG 090 13 16W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1415 | 0.30 | 3860 | 7.4 | 411 | 2.1 | 27.0 | 9.1 |
| 20... | 1416 | 6.9 | 3750 | 7.2 | 420 | 2.0 | 24.5 | 8.5 |
| 20... | 1417 | 14.0 | 3830 | 7.2 | 420 | 2.1 | 24.5 | 8.5 |
| **LAT 30 15 17N LONG 090 18 43W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1430 | 0.30 | 2520 | 7.8 | 385 | 1.4 | 27.0 | 10.1 |
| 20... | 1431 | 5.6 | 2420 | 7.4 | 406 | 1.3 | 25.0 | 8.9 |
| 20... | 1432 | 11.2 | 2420 | 7.4 | 406 | 1.3 | 25.0 | 8.7 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 14 15N LONG 090 21 08W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1435 | 0.30 | 2060 | 7.6 | 398 | 1.1 | 26.5 | 9.6 |
| 20... | 1436 | 4.3 | 2130 | 7.4 | 413 | 1.1 | 25.5 | 8.5 |
| 20... | 1437 | 8.5 | 2300 | 7.6 | 415 | 1.2 | 24.5 | 6.8 |
| **LAT 30 12 17N LONG 090 23 50W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1445 | 0.30 | 2180 | 8.2 | 382 | 1.2 | 26.5 | 10.7 |
| 20... | 1446 | 4.3 | 2030 | 7.8 | 397 | 1.1 | 25.5 | 9.9 |
| 20... | 1447 | 8.5 | 2000 | 7.6 | 410 | 1.1 | 24.5 | 8.6 |
| **LAT 30 10 17N LONG 090 21 08W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1500 | 0.30 | 2460 | 7.8 | 403 | 1.3 | 25.5 | 9.1 |
| 20... | 1501 | 5.9 | 2620 | 7.7 | 411 | 1.4 | 25.0 | 8.4 |
| 20... | 1502 | 11.8 | 2860 | 7.8 | 408 | 1.6 | 25.0 | 7.7 |
| **LAT 30 08 39N LONG 090 16 27W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1510 | 0.30 | 4030 | 7.6 | 410 | 2.2 | 26.5 | 9.1 |
| 20... | 1511 | 6.9 | 3870 | 7.6 | 416 | 2.2 | 25.0 | 8.4 |
| 20... | 1512 | 13.8 | 3890 | 7.7 | 410 | 2.1 | 25.0 | 8.6 |
| **LAT 30 12 28N LONG 090 16 03W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1525 | 0.30 | 3730 | 7.6 | 410 | 2.0 | 27.0 | 9.1 |
| 20... | 1526 | 6.9 | 3720 | 7.5 | 416 | 2.0 | 25.0 | 8.5 |
| 20... | 1527 | 13.8 | 3800 | 7.5 | 413 | 2.0 | 25.0 | 8.7 |
| **LAT 30 08 35N LONG 090 25 35W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1550 | 0.30 | 950 | 8.2 | 373 | 0.5 | 27.0 | 10.9 |
| 20... | 1551 | 4.3 | 1180 | 7.7 | 395 | 0.6 | 25.5 | 9.6 |
| 20... | 1552 | 8.5 | 1750 | 7.5 | 409 | 0.9 | 25.0 | 8.4 |
| **LAT 30 08 24N LONG 090 22 32W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1600 | 0.30 | 2840 | 8.0 | 402 | 1.5 | 26.5 | 9.8 |
| 20... | 1601 | 5.6 | 2480 | 7.8 | 416 | 1.3 | 25.0 | 8.6 |
| 20... | 1602 | 11.2 | 2700 | 8.0 | 414 | 1.4 | 25.0 | 8.7 |
| **LAT 30 06 13N LONG 090 17 30W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1610 | 0.30 | 1800 | 7.9 | 397 | 1.0 | 25.5 | 9.2 |
| 20... | 1611 | 6.6 | 1830 | 7.8 | 405 | 1.0 | 24.0 | 8.4 |
| 20... | 1612 | 13.1 | 3080 | 7.8 | 409 | 1.6 | 25.0 | 8.5 |
| **LAT 30 06 14N LONG 090 20 02W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1620 | 0.30 | 1450 | 8.2 | 381 | 0.8 | 28.0 | 11.8 |
| 20... | 1621 | 5.9 | 1500 | 7.8 | 411 | 0.8 | 24.0 | 8.4 |
| 20... | 1622 | 11.8 | 3000 | 7.9 | 416 | 1.6 | 24.5 | 8.4 |
| **LAT 30 0625N LONG 090 22 05W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1625 | 0.30 | 1400 | 8.0 | 398 | 0.7 | 26.0 | 10.3 |
| 20... | 1626 | 5.2 | 1050 | 7.8 | 415 | 0.6 | 24.0 | 8.6 |
| 20... | 1627 | 10.5 | 1070 | 8.0 | 411 | 0.6 | 23.5 | 8.6 |
| **LAT 30 06 27N LONG 090 23 40W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1630 | 0.30 | 1000 | 8.2 | 396 | 0.5 | 26.5 | 11.0 |
| 20... | 1631 | 5.2 | 830 | 7.8 | 420 | 0.4 | 23.0 | 8.9 |
| 20... | 1632 | 10.5 | 1330 | 8.0 | 419 | 0.7 | 23.0 | 8.5 |
| **LAT 30 06 27N LONG 090 25 10W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1635 | 0.30 | 1080 | 8.4 | 390 | 0.6 | 26.5 | 11.3 |
| 20... | 1636 | 2.6 | 1400 | 8.2 | 400 | 0.7 | 26.0 | 10.4 |
| 20... | 1637 | 5.2 | 1700 | 8.2 | 403 | 0.9 | 25.5 | 9.8 |

**Table 3.** Physical and chemical-related properties for selected sites in the southwestern part of Lake Pontchartrain, Louisiana, May 13, 16, and 18-20, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LAT 30 05 20N LONG 090 24 41W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1645 | 0.30 | 1760 | 8.7 | 374 | 0.9 | 28.5 | 12.4 |
| 20... | 1646 | 1.3 | 1600 | 8.4 | 390 | 0.9 | 26.0 | 10.8 |
| 20... | 1647 | 2.6 | 1950 | 8.4 | 398 | 1.1 | 26.0 | 10.4 |
| **LAT 30 05 04N LONG 090 23 48W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1650 | 0.30 | 480 | 7.8 | 407 | 0.2 | 25.0 | 8.4 |
| 20... | 1651 | 3.0 | 745 | 7.8 | 410 | 0.4 | 23.5 | 8.8 |
| 20... | 1652 | 5.9 | 1980 | 8.1 | 409 | 1.1 | 23.5 | 8.0 |
| **LAT 30 04 56N LONG 090 72 57W** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 20... | 1655 | 0.30 | 840 | 8.1 | 395 | 0.4 | 27.0 | 11.1 |
| 20... | 1656 | 3.9 | 520 | 7.6 | 428 | 0.3 | 24.0 | 9.0 |
| 20... | 1657 | 7.9 | 450 | 7.6 | 433 | 0.2 | 22.5 | 7.8 |

**Table 4.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the leading edge and freshwater plume in Lake Pontchartrain, Louisiana, May 18, 19, and 27, 1994

[M, meter; US/CM, microsiemens per centimeter at 25 degrees Celsius; MV, millivolts; PPT, parts per thousand; DEC C, degrees Celsius; MG/L, milligrams per liter; UG/L, micrograms per liter]

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **PLUME-SITE 1 (LAT 30 06 52N LONG 090 20 08W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1245 | 0.3 | 2460 | 7.6 | 173 | 0.8 | 25.5 | 7.8 |
| 19... | 1246 | 7.2 | 2470 | 7.6 | 165 | 0.8 | 25.5 | 7.8 |
| 19... | 1247 | 11.2 | 2410 | 7.6 | 165 | 0.8 | 25.5 | 7.8 |
| 19... | 1250 | 0.3 | 2390 | 7.6 | 195 | 0.8 | 25.5 | 7.7 |
| 19... | 1251 | 5.2 | 2400 | 7.6 | 194 | 0.8 | 25.5 | 7.7 |
| 19... | 1252 | 11.5 | 2480 | 7.6 | 192 | 0.8 | 25.5 | 7.9 |
| **PLUME-SITE 2 (LAT 30 05 21N LONG 090 20 51W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1325 | 0.7 | 1030 | 7.8 | 179 | 0.0 | 25.0 | 7.8 |
| 19... | 1326 | 5.2 | 1030 | 7.8 | 176 | 0.0 | 25.0 | 7.6 |
| 19... | 1327 | 10.5 | 1050 | 7.8 | 171 | 0.0 | 24.5 | 7.1 |
| 19... | 1330 | 0.7 | 1020 | 7.8 | 173 | 0.0 | 25.0 | 8.1 |
| 19... | 1331 | 5.2 | 1020 | 7.8 | 169 | 0.0 | 25.0 | 8.1 |
| 19... | 1332 | 10.5 | 1060 | 7.7 | 164 | 0.0 | 24.5 | 7.9 |
| **PLUME-SITE 3 (LAT 30 04 47N LONG 090 21 47W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1445 | 0.7 | 683 | 7.9 | 206 | 0.0 | 25.0 | 8.0 |
| 19... | 1446 | 3.3 | 686 | 7.8 | 206 | 0.0 | 24.5 | 7.8 |
| 19... | 1447 | 6.9 | 978 | 7.9 | 208 | 0.0 | 24.5 | 7.5 |
| 19... | 1450 | 0.7 | 690 | 7.8 | 217 | 0.0 | 24.5 | 8.2 |
| 19... | 1451 | 3.3 | 683 | 7.8 | 217 | 0.0 | 24.5 | 8.2 |
| 19... | 1452 | 6.9 | 1020 | 7.8 | 223 | 0.0 | 24.5 | 7.5 |
| **PLUME-SITE 4 (LAT 30 05 44N LONG 090 22 32W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1515 | 0.3 | 1200 | 7.8 | 200 | 0.1 | 25.0 | 8.1 |
| 19... | 1516 | 3.3 | 1100 | 7.8 | 200 | 0.1 | 25.0 | 8.0 |
| 19... | 1517 | 8.2 | 877 | 7.7 | 202 | 0.0 | 24.5 | 8.0 |
| 19... | 1520 | 0.3 | 1210 | 7.8 | 206 | 0.1 | 25.0 | 8.2 |
| 19... | 1521 | 3.6 | 1150 | 7.8 | 206 | 0.1 | 25.0 | 7.5 |
| 19... | 1522 | 7.9 | 991 | 7.8 | 207 | 0.0 | 24.5 | 7.9 |
| **PLUME-SITE 5 (LAT 30 08 00N LONG 090 23 58W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1600 | 0.3 | 2220 | 7.9 | 166 | 0.7 | 26.0 | 8.2 |
| 19... | 1601 | 5.2 | 2220 | 7.9 | 163 | 0.7 | 26.0 | 8.2 |
| 19... | 1602 | 10.5 | 2240 | 7.9 | 156 | 0.7 | 26.0 | 8.3 |
| 19... | 1605 | 0.3 | 2210 | 7.8 | 181 | 0.7 | 26.5 | 8.0 |
| 19... | 1606 | 5.2 | 2220 | 7.8 | 179 | 0.7 | 26.0 | 8.1 |
| 19... | 1607 | 10.5 | 2250 | 7.8 | 178 | 0.7 | 26.0 | 8.0 |

**Table 4.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the leading edge and freshwater plume in Lake Pontchartrain, Louisiana, May 18, 19, and 27, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE LAB (US/CM) | PH WATER WHOLE LAB (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (MG/L) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **LEADING EDGE-SITE 1 (LAT 30 04 23N LONG 090 21 59W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1225 | 1.0 | 866 | 7.6 | -- | -- | 24.5 | 7.6 |
| 18... | 1226 | 3.9 | 980 | 7.5 | -- | -- | 24.5 | 7.5 |
| 18... | 1227 | 7.9 | 1650 | 7.5 | -- | -- | 25.0 | 7.2 |
| 18... | 1230 | 1.0 | 885 | 7.6 | 213 | 0.0 | 24.5 | 7.7 |
| 18... | 1231 | 3.9 | 920 | 7.6 | 212 | 0.0 | 24.5 | 7.6 |
| 18... | 1232 | 7.2 | 1720 | 7.6 | 212 | 0.4 | 25.0 | 7.4 |
| **LEADING EDGE-SITE 2 (LAT 30 07 05N LONG 090 22 55W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1400 | 1.0 | 1740 | 7.9 | 178 | 0.4 | 27.0 | 8.4 |
| 18... | 1401 | 5.2 | 1680 | 7.6 | 186 | 0.4 | 27.0 | 7.6 |
| 18... | 1402 | 10.5 | 1690 | 7.6 | 183 | 0.4 | 27.0 | 6.8 |
| 18... | 1405 | 1.0 | 1760 | 7.8 | 182 | 0.4 | 28.0 | 8.2 |
| 18... | 1406 | 5.2 | 1690 | 7.6 | 192 | 0.4 | 27.0 | 7.4 |
| 18... | 1407 | 10.2 | 1710 | 7.7 | 197 | 0.4 | 26.5 | 6.5 |
| **LEADING EDGE-SITE 3 (LAT 30 06 33N LONG 090 25 13W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 18... | 1450 | 1.0 | 1400 | 8.2 | 172 | 0.2 | 28.5 | 8.6 |
| 18... | 1451 | 2.6 | 1410 | 8.2 | 173 | 0.2 | 28.5 | 8.5 |
| 18... | 1452 | 5.2 | 1570 | 8.2 | 173 | 0.3 | 28.0 | 8.2 |
| 18... | 1455 | 1.0 | 1400 | 8.2 | 182 | 0.2 | 28.5 | 8.5 |
| 18... | 1456 | 2.6 | 1400 | 8.2 | 182 | 0.2 | 28.5 | 8.4 |
| 18... | 1457 | 5.6 | 1510 | 8.2 | 182 | 0.3 | 28.0 | 8.3 |
| **LEADING EDGE-SITE 1 (LAT 30 05 25N LONG 090 22 00W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 27... | 1130 | 0.3 | 631 | 7.6 | -- | -- | 25.5 | 7.5 |
| 27... | 1131 | 3.3 | 769 | 7.6 | -- | -- | 24.5 | 7.2 |
| 27... | 1132 | 6.9 | 1220 | 7.6 | -- | -- | 25.0 | 7.5 |
| **LEADING EDGE-SITE 2 (LAT 30 06 32N LONG 090 23 08W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 27... | 1200 | 0.3 | 802 | 7.7 | -- | -- | 25.5 | 7.9 |
| 27... | 1201 | 5.6 | 800 | 7.6 | -- | -- | 25.0 | 7.5 |
| 27... | 1202 | 7.5 | 1670 | 7.6 | -- | -- | 25.5 | 5.9 |
| **LEADING EDGE-SITE 3 (LAT 30 05 17N LONG 090 21 38W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 27... | 1230 | 0.3 | 640 | 7.7 | -- | -- | 25.5 | 7.7 |
| 27... | 1231 | 3.3 | 1240 | 7.7 | -- | -- | 25.5 | 8.0 |
| 27... | 1232 | 6.9 | 2350 | 7.5 | -- | -- | 25.5 | 4.7 |

**Table 4.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the leading edge and freshwater plume in Lake Pontchartrain, Louisiana, May 18, 19, and 27, 1994—Continued

| DATE | TIME | SPECIFIC CONDUCTANCE LAB (US/CM) | PH WATER WHOLE LAB (STANDARD UNITS) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY LAB (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|
| **PLUME-SITE 1 (LAT 30 06 52N LONG 090 20 08W)** | | | | | | | | |
| MAY 1994 19... | 1245 | 2440 | 7.3 | 24 | 47 | 380 | 16 | 41 |
| **PLUME-SITE 2 (LAT 30 05 21N LONG 090 20 51W)** | | | | | | | | |
| MAY 1994 19... | 1325 | 1030 | 7.6 | 27 | 21 | 130 | 7.3 | 71 |
| **PLUME-SITE 3 (LAT 30 04 47N LONG 090 21 47W)** | | | | | | | | |
| MAY 1994 19... | 1445 | 707 | 7.7 | 29 | 16 | 79 | 5.2 | 78 |
| **PLUME-SITE 4 (LAT 30 05 44N LONG 090 22 32W)** | | | | | | | | |
| MAY 1994 19... | 1515 | 1090 | 7.6 | 26 | 24 | 150 | 8.0 | 66 |
| **PLUME-SITE 5 (LAT 30 08 00N LONG 090 23 58W)** | | | | | | | | |
| MAY 1994 19... | 1600 | 2250 | 7.2 | 22 | 43 | 340 | 15 | 39 |
| **LEADING EDGE-SITE 1 (LAT 30 04 23N LONG 090 21 59W)** | | | | | | | | |
| MAY 1994 18... | 1225 | 1140 | 7.6 | 30 | 23 | 140 | 7.6 | 74 |
| **LEADING EDGE-SITE 1 (LAT 30 05 25N LONG 090 22 00W)** | | | | | | | | |
| MAY 1994 27... | 1130 | 894 | 7.6 | 37 | 22 | 100 | 6.1 | 88 |
| **LEADING EDGE-SITE 2 (LAT 30 07 05N LONG 090 22 55W)** | | | | | | | | |
| MAY 1994 18... | 1400 | 1730 | 7.3 | 22 | 34 | 250 | 11 | 50 |
| **LEADING EDGE--SITE 2 (LAT 30 06 32N LONG 090 23 08W)** | | | | | | | | |
| MAY 1994 27... | 1200 | 818 | 7.6 | 35 | 20 | 91 | 5.8 | 88 |
| **LEADING EDGE-SITE 3 (LAT 30 06 33N LONG 090 25 13W)** | | | | | | | | |
| MAY 1994 18... | 1450 | 1380 | 7.5 | 20 | 28 | 200 | 10 | 50 |
| **LEADING EDGE-SITE 3 (LAT 30 05 17N LONG 090 21 38W)** | | | | | | | | |
| MAY 1994 27... | 1230 | 1370 | 7.5 | 35 | 29 | 170 | 8.6 | 76 |

**Table 4.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the leading edge and freshwater plume in Lake Pontchartrain, Louisiana, May 18, 19, and 27, 1994—Continued

| DATE | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) | CARBON, ORGANIC TOTAL (MG/L AS C) | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) |
|---|---|---|---|---|---|---|---|
| PLUME-SITE 1 (LAT 30 06 52N LONG 090 20 08W) | | | | | | | |
| MAY 1994 19... | 100 | 680 | 0.1 | 3.1 | 1340 | 7.6 | 5.6 |
| PLUME-SITE 2 (LAT 30 05 21N LONG 090 20 51W) | | | | | | | |
| MAY 1994 19... | 60 | 240 | 0.2 | 3.8 | 576 | 7.7 | 4.4 |
| PLUME-SITE 3 (LAT 30 04 47N LONG 090 21 47W) | | | | | | | |
| MAY 1994 19... | 50 | 140 | 0.2 | 4.2 | 385 | 7.1 | 4.7 |
| PLUME-SITE 4 (LAT 30 05 44N LONG 090 22 32W) | | | | | | | |
| MAY 1994 19... | 64 | 280 | 0.2 | 3.9 | 628 | 7.5 | 4.7 |
| PLUME-SITE 5 (LAT 30 08 00N LONG 090 23 58W) | | | | | | | |
| MAY 1994 19... | 100 | 630 | 0.1 | 2.8 | 1240 | 6.8 | 5.3 |
| LEADING EDGE-SITE 1 (LAT 30 04 23N LONG 090 21 59W) | | | | | | | |
| MAY 1994 18... | 62 | 240 | 0.2 | 3.8 | 615 | 7.9 | 5.0 |
| LEADING EDGE-SITE 1 (LAT 30 05 25N LONG 090 22 00W) | | | | | | | |
| MAY 1994 27... | 57 | 180 | 0.2 | 4.8 | 497 | 4.6 | 4.2 |
| LEADING EDGE-SITE 2 (LAT 30 07 05N LONG 090 22 55W) | | | | | | | |
| MAY 1994 18... | 80 | 440 | 0.1 | 3.1 | 897 | 6.8 | 5.8 |
| LEADING EDGE-SITE 2 (LAT 30 06 32N LONG 090 23 08W) | | | | | | | |
| MAY 1994 27... | 54 | 160 | 0.2 | 4.9 | 462 | 4.4 | 4.3 |
| LEADING EDGE-SITE 3 (LAT 30 06 33N LONG 090 25 13W) | | | | | | | |
| MAY 1994 18... | 68 | 370 | 0.1 | 2.8 | 762 | 5.4 | 5.4 |
| LEADING EDGE-SITE 3 (LAT 30 05 17N LONG 090 21 38W) | | | | | | | |
| MAY 1994 27... | 72 | 330 | 0.2 | 4.4 | 762 | 4.8 | 4.2 |

**Table 4.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the leading edge and freshwater plume in Lake Pontchartrain, Louisiana, May 18, 19, and 27, 1994—Continued

| DATE | TIME | NITROGEN, NITRITE TOTAL (MG/L AS N) | NITROGEN, NITRITE DISSOLVED (MG/L AS N) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | NITROGEN, AMMONIA DISSOLVED (MG/L AS N) | NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) |
|---|---|---|---|---|---|---|---|---|
| **PLUME-SITE 1 (LAT 30 06 52N LONG 090 20 08W)** | | | | | | | | |
| MAY 1994 19... | 1245 | 0.01 | <0.01 | 0.12 | 0.12 | 0.05 | 0.03 | 0.85 |
| **PLUME-SITE 2 (LAT 30 05 21N LONG 090 20 51W)** | | | | | | | | |
| MAY 1994 19... | 1325 | 0.01 | <0.01 | 0.39 | 0.41 | 0.05 | 0.04 | 0.77 |
| **PLUME-SITE 3 (LAT 30 04 47N LONG 090 21 47W)** | | | | | | | | |
| MAY 1994 19... | 1445 | 0.01 | <0.01 | 0.55 | 0.55 | 0.04 | 0.04 | 0.78 |
| **PLUME-SITE 4 (LAT 30 05 44N LONG 090 22 32W)** | | | | | | | | |
| MAY 1994 19... | 1515 | 0.01 | <0.01 | 0.40 | 0.40 | 0.04 | 0.04 | 0.65 |
| **PLUME-SITE 5 (LAT 30 08 00N LONG 090 23 58W)** | | | | | | | | |
| MAY 1994 19... | 1600 | 0.01 | <0.01 | 0.06 | 0.06 | 0.03 | 0.03 | 0.56 |
| -LEADING EDGE-SITE 1 (LAT 30 04 23N LONG 090 21 59W) | | | | | | | | |
| MAY 1994 18... | 1225 | 0.01 | 0.01 | 0.52 | 0.52 | 0.05 | 0.05 | 0.58 |
| -LEADING EDGE-SITE 1 (LAT 30 05 25N LONG 090 22 00W) | | | | | | | | |
| MAY 1994 27... | 1130 | 0.01 | 0.01 | 0.80 | 0.80 | 0.06 | 0.06 | 0.45 |
| -LEADING EDGE-SITE 2 (LAT 30 07 05N LONG 090 22 55W) | | | | | | | | |
| MAY 1994 18... | 1400 | 0.01 | <0.01 | 0.14 | 0.14 | 0.04 | 0.04 | 0.54 |
| -LEADING EDGE-SITE 2 (LAT 30 06 32N LONG 090 23 08W) | | | | | | | | |
| MAY 1994 27... | 1200 | 0.01 | 0.01 | 0.78 | 0.78 | 0.07 | 0.07 | 0.41 |
| -LEADING EDGE-SITE 3 (LAT 30 06 33N LONG 090 25 13W) | | | | | | | | |
| MAY 1994 18... | 1450 | 0.01 | 0.01 | 0.10 | 0.10 | 0.03 | 0.03 | 0.58 |
| -LEADING EDGE-SITE 3 (LAT 30 05 17N LONG 090 21 38W) | | | | | | | | |
| MAY 1994 27... | 1230 | 0.01 | 0.01 | 0.62 | 0.62 | 0.06 | 0.06 | 0.50 |

**Table 4.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the leading edge and freshwater plume in Lake Pontchartrain, Louisiana, May 18, 19, and 27, 1994—Continued

| DATE | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) | PHOS-PHORUS TOTAL (MG/L AS P) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) | PHOS-PHORUS ORTHO TOTAL (MG/L AS P) | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) | CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) | CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) |
|---|---|---|---|---|---|---|---|
| **PLUME-SITE 1 (LAT 30 06 52N LONG 090 20 08W)** | | | | | | | |
| MAY 1994 19... | 0.22 | 0.12 | <0.02 | 0.03 | 0.01 | 4.2 | <0.1 |
| **PLUME-SITE 2 (LAT 30 05 21N LONG 090 20 51W)** | | | | | | | |
| MAY 1994 19... | 0.30 | 0.15 | 0.02 | 0.06 | 0.02 | 8.7 | 0.3 |
| **PLUME-SITE 3 (LAT 30 04 47N LONG 090 21 47W)** | | | | | | | |
| MAY 1994 19... | 0.44 | 0.20 | 0.04 | 0.07 | 0.04 | 3.0 | 0.1 |
| **PLUME-SITE 4 (LAT 30 05 44N LONG 090 22 32W)** | | | | | | | |
| MAY 1994 19... | 0.28 | 0.11 | 0.03 | 0.05 | 0.03 | 6.3 | 0.2 |
| **PLUME-SITE 5 (LAT 30 08 00N LONG 090 23 58W)** | | | | | | | |
| MAY 1994 19... | 0.28 | 0.08 | 0.02 | 0.03 | 0.01 | 3.8 | <0.1 |
| **LEADING EDGE-SITE 1 (LAT 30 04 23N LONG 090 21 59W)** | | | | | | | |
| MAY 1994 18... | 0.35 | 0.12 | 0.05 | 0.07 | 0.03 | 1.0 | 0.3 |
| **LEADING EDGE-SITE 1 (LAT 30 05 25N LONG 090 22 00W)** | | | | | | | |
| MAY 1994 27... | 0.33 | 0.07 | 0.04 | 0.06 | 0.04 | 2.7 | 0.3 |
| **LEADING EDGE-SITE 2 (LAT 30 07 05N LONG 090 22 55W)** | | | | | | | |
| MAY 1994 18... | 0.28 | 0.06 | <0.02 | 0.02 | <0.01 | 10 | 0.4 |
| **LEADING EDGE-SITE 2 (LAT 30 06 32N LONG 090 23 08W)** | | | | | | | |
| MAY 1994 27... | 0.34 | 0.06 | 0.04 | 0.05 | 0.04 | 2.4 | 0.2 |
| **LEADING EDGE-SITE 3 (LAT 30 06 33N LONG 090 25 13W)** | | | | | | | |
| MAY 1994 18... | 0.29 | 0.07 | 0.02 | 0.03 | 0.01 | 11 | 0.5 |
| **LEADING EDGE-SITE 3 (LAT 30 05 17N LONG 090 21 38W)** | | | | | | | |
| MAY 1994 27... | 0.28 | 0.07 | 0.03 | 0.05 | 0.03 | 3.2 | 0.2 |

**Table 4.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the leading edge and freshwater plume in Lake Pontchartrain, Louisiana, May 18, 19, and 27, 1994—Continued

| DATE | TIME | ALA-CHLOR, WATER, DISS, REC, (UG/L) | AMETRYN WATER, DISS, REC, (UG/L) | ATRA-ZINE, WATER, DISS, REC (UG/L) | CYANA-ZINE, WATER, DISS, REC (UG/L) | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) | DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) |
|---|---|---|---|---|---|---|---|
| **PLUME-SITE 1 (LAT 30 06 52N LONG 090 20 08W)** | | | | | | | |
| MAY 1994 19... | 1245 | <0.05 | <0.05 | 0.21 | <0.2 | <0.05 | <0.05 |
| **PLUME-SITE 2 (LAT 30 05 21N LONG 090 20 51W)** | | | | | | | |
| MAY 1994 19... | 1325 | 0.07 | <0.05 | 0.72 | 0.3 | 0.06 | <0.05 |
| **PLUME-SITE 3 (LAT 30 04 47N LONG 090 21 47W)** | | | | | | | |
| MAY 1994 19... | 1445 | 0.08 | <0.05 | 0.96 | 0.4 | 0.06 | <0.05 |
| **PLUME-SITE 4 (LAT 30 05 44N LONG 090 22 32W)** | | | | | | | |
| MAY 1994 19... | 1515 | 0.05 | <0.05 | 0.65 | 0.3 | 0.05 | <0.05 |
| **PLUME-SITE 5 (LAT 30 08 00N LONG 090 23 58W)** | | | | | | | |
| MAY 1994 19... | 1600 | <0.05 | <0.05 | 0.14 | <0.2 | <0.05 | <0.05 |
| **LEADING EDGE-SITE 1 (LAT 30 04 23N LONG 090 21 59W)** | | | | | | | |
| MAY 1994 18... | 1225 | -- | -- | -- | -- | -- | -- |
| **LEADING EDGE-SITE 1 (LAT 30 05 25N LONG 090 22 00W)** | | | | | | | |
| MAY 1994 27... | 1130 | 0.07 | <0.05 | 1.1 | 0.6 | 0.10 | <0.05 |
| **LEADING EDGE-SITE 2 (LAT 30 07 05N LONG 090 22 55W)** | | | | | | | |
| MAY 1994 18... | 1400 | <0.05 | <0.05 | 0.25 | <0.2 | <0.05 | <0.05 |
| **LEADING EDGE-SITE 2 (LAT 30 06 32N LONG 090 23 08W)** | | | | | | | |
| MAY 1994 27... | 1200 | 0.09 | <0.05 | 1.2 | 0.6 | 0.09 | <0.05 |
| **LEADING EDGE-SITE 3 (LAT 30 06 33N LONG 090 25 13W)** | | | | | | | |
| MAY 1994 18... | 1450 | <0.05 | <0.05 | 0.22 | <0.2 | <0.05 | <0.05 |
| **LEADING EDGE-SITE 3 (LAT 30 05 17N LONG 090 21 38W)** | | | | | | | |
| MAY 1994 27... | 1230 | 0.06 | <0.05 | 0.99 | 0.5 | 0.08 | <0.05 |

**Table 4.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in the leading edge and freshwater plume in Lake Pontchartrain, Louisiana, May 18, 19, and 27, 1994—Continued

| DATE | METO-LACHLOR WATER DISSOLV (UG/L) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) | PROP-AZINE WATER DISS REC (UG/L) | SI-MAZINE, WATER, DISS, REC (UG/L) | PRO-METON, WATER, DISS, REC (UG/L) | PRO-METRYN, WATER, DISS, REC (UG/L) |
|---|---|---|---|---|---|---|
| **PLUME-SITE 1 (LAT 30 06 52N LONG 090 20 08W)** | | | | | | |
| MAY 1994 19... | 0.10 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **PLUME-SITE 2 (LAT 30 05 21N LONG 090 20 51W)** | | | | | | |
| MAY 1994 19... | 0.39 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 |
| **PLUME-SITE 3 (LAT 30 04 47N LONG 090 21 47W)** | | | | | | |
| MAY 1994 19... | 0.40 | <0.05 | <0.05 | 0.10 | <0.05 | <0.05 |
| **PLUME-SITE 4 (LAT 30 05 44N LONG 090 22 32W)** | | | | | | |
| MAY 1994 19... | 0.35 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **PLUME-SITE 5 (LAT 30 08 00N LONG 090 23 58W)** | | | | | | |
| MAY 1994 19... | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **LEADING EDGE-SITE 1 (LAT 30 04 23N LONG 090 21 59W)** | | | | | | |
| MAY 1994 18... | -- | -- | -- | -- | -- | -- |
| **LEADING EDGE-SITE 1 (LAT 30 05 25N LONG 090 22 00W)** | | | | | | |
| MAY 1994 27... | 0.36 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 |
| **LEADING EDGE-SITE 2 (LAT 30 07 05N LONG 090 22 55W)** | | | | | | |
| MAY 1994 18... | 0.15 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **LEADING EDGE-SITE 2 (LAT 30 06 32N LONG 090 23 08W)** | | | | | | |
| MAY 1994 27... | 0.43 | <0.05 | <0.05 | 0.12 | <0.05 | <0.05 |
| **LEADING EDGE-SITE 3 (LAT 30 06 33N LONG 090 25 13W)** | | | | | | |
| MAY 1994 18... | 0.12 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **LEADING EDGE-SITE 3 (LAT 30 05 17N LONG 090 21 38W)** | | | | | | |
| MAY 1994 27... | 0.31 | <0.05 | <0.05 | 0.10 | <0.05 | <0.05 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994

[M, meter; US/CM, microsiemens per centimeter at 25 degrees Celsius; MV, millivolts; PPT, parts per thousand; DEG C, degrees Celsius; MG/L, milligrams per liter; MG/KG, milligrams per kilogram; UG/G, micrograms per gram; UG/KG, micrograms per kilogram]

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1210 | 1.6 | 332 | 7.2 | -- | -- | 21.0 | 6.5 |
| 19... | 1211 | 5.9 | 333 | 7.2 | -- | -- | 21.0 | 6.5 |
| 19... | 1212 | 10.8 | 337 | 7.3 | -- | -- | 21.0 | 6.5 |
| 19... | 1215 | -- | -- | 7.5 | -- | -- | -- | -- |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 19... | 1225 | 3.3 | 313 | 7.3 | -- | 0.2 | 22.0 | 6.4 |
| 19... | 1230 | -- | 313 | 7.3 | -- | -- | 22.0 | 6.4 |
| 19... | 1235 | -- | 313 | 7.3 | -- | -- | 22.0 | 6.4 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 22... | 1045 | 0.30 | 403 | 7.7 | 232 | -- | 23.0 | 8.3 |
| 22... | 1046 | 1.6 | 408 | 7.7 | 231 | -- | 23.0 | 8.2 |
| 22... | 1050 | 0.30 | 350 | 7.7 | 242 | -- | 23.0 | 8.3 |
| 22... | 1051 | 1.6 | 348 | 7.7 | 242 | -- | 23.0 | 8.3 |
| 22... | 1052 | 3.3 | 349 | 7.7 | 240 | -- | 23.0 | 8.3 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 22... | 1305 | 0.30 | 342 | 7.6 | 249 | -- | 23.5 | 6.3 |
| 22... | 1306 | 1.6 | 343 | 7.5 | 249 | -- | 23.5 | 6.3 |
| 22... | 1307 | 3.0 | 343 | 7.6 | 247 | -- | 23.5 | 6.2 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 22... | 1200 | 0.30 | 342 | 7.8 | 250 | -- | 23.5 | 8.3 |
| 22... | 1201 | 2.0 | 343 | 7.7 | 250 | -- | 23.5 | 8.2 |
| 22... | 1202 | 3.9 | 355 | 7.7 | 251 | -- | 23.0 | 8.4 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 22... | 1530 | 0.30 | 924 | 8.3 | 217 | 0.0 | 26.0 | 9.9 |
| 22... | 1531 | 4.3 | 911 | 8.1 | 219 | 0.0 | 24.5 | 9.0 |
| 22... | 1532 | 8.5 | 960 | 7.8 | 231 | 0.0 | 24.0 | 7.1 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | |
| MAY 1994 | | | | | | | | |
| 22... | 1700 | 0.30 | 2830 | 8.9 | 190 | 1.0 | 27.5 | 10.9 |
| 22... | 1701 | 5.6 | 2830 | 8.0 | 220 | 1.0 | 25.0 | 8.3 |
| 22... | 1702 | 11.5 | 2840 | 7.8 | 226 | 1.0 | 25.0 | 7.8 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | TIME | CALCIUM DIS-SOLVED (MG/L AS CA) | CALCIUM TOTAL (MG/L AS CAC03) | MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) | SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) | SODIUM, DIS-SOLVED (MG/L AS NA) | POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY LAB (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | 1210 | 29 | 30 | 9.6 | 9.2 | 14 | 13 | 2.5 | 2.6 | 88 | 36 | 18 |
| 19... | 1215 | 30 | 30 | 10 | 9.3 | 14 | 13 | 3.1 | 2.6 | 95 | 36 | 19 |
| 19... | 1220 | 30 | 30 | 9.7 | 9.3 | 13 | 13 | 3.3 | 2.7 | 94 | 35 | 19 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | 1225 | 29 | 30 | 9.8 | 9.2 | 14 | 14 | 2.6 | 2.2 | 95 | 35 | 20 |
| 19... | 1230 | 29 | 30 | 9.7 | 9.3 | 14 | 14 | 2.6 | 2.2 | 96 | 35 | 19 |
| 19... | 1235 | -- | 30 | 9.7 | -- | 14 | -- | 2.7 | -- | 94 | -- | -- |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1030 | 31 | 32 | 11 | 11 | 16 | 16 | 2.5 | 2.3 | 116 | 37 | 21 |
| 22... | 1035 | 31 | 31 | 11 | 11 | 16 | 16 | 2.5 | 2.3 | 92 | 38 | 22 |
| 22... | 1040 | 30 | 32 | 11 | 10 | 16 | 16 | 2.4 | 2.4 | 95 | 37 | 22 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1305 | 31 | 32 | 10 | 10 | 15 | 15 | 2.4 | 2.3 | 96 | 36 | 20 |
| 22... | 1310 | 32 | 32 | 10 | 10 | 15 | 15 | 2.5 | 2.2 | 99 | 36 | 20 |
| 22... | 1315 | 31 | 32 | 10 | 10 | 15 | 15 | 2.3 | 2.0 | 97 | 36 | 20 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1200 | 31 | 32 | 10 | 10 | 15 | 14 | 2.2 | 2.2 | 98 | 35 | 20 |
| 22... | 1205 | 32 | 32 | 10 | 10 | 15 | 15 | 2.2 | 2.1 | 100 | 37 | 20 |
| 22... | 1210 | 32 | 32 | 10 | 10 | 15 | 15 | 2.5 | 2.2 | 98 | 37 | 19 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1530 | 27 | 27 | 19 | 19 | 110 | 110 | 5.5 | 5.2 | 75 | 54 | 200 |
| 22... | 1535 | 27 | 27 | 19 | 19 | 110 | 110 | 5.4 | 5.2 | 75 | 54 | 190 |
| 22... | 1540 | 26 | 27 | 19 | 18 | 110 | 100 | 5.4 | 4.9 | 76 | 54 | 190 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1700 | 23 | 23 | 56 | 55 | 460 | 450 | 18 | 18 | 30 | 120 | 850 |
| 22... | 1705 | 22 | 23 | 56 | 55 | 460 | 450 | 18 | 18 | 29 | 110 | 840 |
| 22... | 1710 | 22 | 22 | 53 | 54 | 440 | 440 | 17 | 18 | 36 | 120 | 840 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICON DIS-SOLVED (UG/L AS SI) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) | ALUMI-NUM, TOTAL RECOVER-ABLE (UG/L) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) | ANTI-MONY, TOTAL (UG/L AS SB) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) | ARSENIC TOTAL (UG/L AS AS) | ARSENIC DIS-SOLVED (UG/L AS AS) | BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) | BARIUM, DIS-SOLVED (UG/L AS BA) | BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | 0.27 | 3100 | 200 | 340 | <100 | <60 | <60 | <3 | <3 | 70 | 51 | <5 |
| 19... | 0.20 | 2900 | 208 | 3000 | <100 | <60 | <60 | <3 | <3 | 80 | 52 | <5 |
| 19... | 0.21 | 3000 | 206 | 3100 | <100 | <60 | <60 | <3 | <3 | 80 | 52 | <5 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | 0.21 | 2900 | 200 | 1300 | <100 | <60 | <60 | <3 | <3 | 60 | 53 | <5 |
| 19... | 0.21 | 2900 | 200 | 1300 | <100 | <60 | <60 | <3 | <3 | 60 | 54 | <5 |
| 19... | -- | -- | -- | 1300 | -- | <60 | -- | <3 | -- | 60 | -- | <5 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 0.21 | 2800 | 214 | 1200 | <100 | <60 | <60 | <3 | <3 | 60 | 47 | <5 |
| 22... | 0.22 | 2800 | 212 | 1200 | <100 | <60 | <60 | <3 | <3 | 60 | 47 | <5 |
| 22... | 0.22 | 2700 | 206 | 960 | <100 | <60 | <60 | <3 | <3 | 60 | 47 | <5 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 0.22 | 2800 | 186 | 1200 | <100 | <60 | <60 | <3 | <3 | 70 | 56 | <5 |
| 22... | 0.20 | 2800 | 190 | 1300 | 110 | <60 | <60 | <3 | <3 | 70 | 57 | <5 |
| 22... | 0.23 | 2800 | 190 | 980 | <100 | <60 | <60 | <3 | <3 | 70 | 57 | <5 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 0.22 | 2800 | 188 | 1500 | <100 | <60 | <60 | <3 | <3 | 70 | 54 | <5 |
| 22... | 0.19 | 2700 | 202 | 1100 | <100 | <60 | <60 | <3 | <3 | 70 | 55 | <5 |
| 22... | 0.20 | 2700 | 204 | 1400 | 260 | <60 | <60 | <3 | <3 | 70 | 56 | <5 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 0.20 | 2100 | 508 | 630 | <100 | <60 | <60 | <3 | <3 | 50 | 50 | <5 |
| 22... | 0.22 | 2100 | 496 | 630 | <100 | <60 | <60 | <3 | <3 | 50 | 48 | <5 |
| 22... | 0.20 | 2100 | 498 | 350 | <100 | <60 | <60 | <3 | <3 | 50 | 47 | <5 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 0.19 | 1600 | 1630 | 780 | <100 | <60 | <60 | <3 | <3 | 50 | 44 | <5 |
| 22... | 0.19 | 1600 | 1620 | 780 | <100 | <60 | <60 | <3 | <3 | 50 | 42 | <5 |
| 22... | 0.19 | 1700 | 1550 | 560 | <100 | <60 | <60 | <3 | <3 | 40 | 42 | <5 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | BERYLLIUM, DISSOLVED (UG/L AS BE) | CADMIUM TOTAL RECOVERABLE (UG/L AS CD) | CADMIUM DISSOLVED (UG/L AS CD) | CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) | CHROMIUM, DISSOLVED (UG/L AS CR) | COBALT, TOTAL RECOVERABLE (UG/L AS CO) | COBALT, DISSOLVED (UG/L AS CO) | COPPER, TOTAL RECOVERABLE (UG/L AS CU) | COPPER, DISSOLVED (UG/L AS CU) | IRON, TOTAL RECOVERABLE (UG/L AS FE) | IRON, DISSOLVED (UG/L AS FE) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **BONNET CARRE STUDY-EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 770 | 71 |
| 19... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 2700 | 83 |
| 19... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 2600 | 90 |
| **BONNET CARRE STUDY-EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1200 | 77 |
| 19... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1100 | 71 |
| 19... | -- | <5 | -- | <10 | -- | <20 | -- | <20 | -- | 1200 | -- |
| **BONNET CARRE STUDY-EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1200 | 49 |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1200 | 49 |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1100 | 45 |
| **BONNET CARRE STUDY-EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1200 | 67 |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1200 | 75 |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1000 | <25 |
| **BONNET CARRE STUDY-EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1300 | 56 |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1200 | 55 |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 1300 | 260 |
| **BONNET CARRE STUDY-EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 520 | <25 |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 510 | <25 |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 410 | <25 |
| **BONNET CARRE STUDY-EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 600 | <25 |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 600 | <25 |
| 22... | <5 | <5 | <5 | <10 | <10 | <20 | <20 | <20 | <20 | 520 | <25 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) | LEAD, DIS-SOLVED (UG/L AS PB) | MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) | MERCURY DIS-SOLVED (UG/L AS HG) | MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) | NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) | NICKEL, DIS-SOLVED (UG/L AS NI) | SELE-NIUM, TOTAL (UG/L AS SE) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **BONNET CARRE STUDY-EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <5 | <5 | 100 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <3 |
| 19... | <5 | <5 | 110 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <3 |
| 19... | <5 | <5 | 110 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <3 |
| **BONNET CARRE STUDY-EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <5 | <5 | 68 | 18 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <3 |
| 19... | <5 | <5 | 67 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <3 |
| 19... | <5 | <5 | 70 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <3 |
| **BONNET CARRE STUDY-EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <3 | <3 | 66 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| 22... | <3 | <3 | 66 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| 22... | <3 | <3 | 66 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| **BONNET CARRE STUDY-EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <3 | <3 | 79 | 20 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| 22... | 3 | 3 | 75 | 20 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| 22... | <3 | <3 | 75 | 20 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| **BONNET CARRE STUDY-EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <3 | 3 | 75 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| 22... | <3 | <3 | 75 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| 22... | <3 | <3 | 75 | 12 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| **BONNET CARRE STUDY-EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <3 | <3 | 20 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| 22... | <3 | <3 | 19 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| 22... | <3 | <3 | 19 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| **BONNET CARRE STUDY-EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <3 | <3 | 28 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| 22... | 4 | <3 | 28 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |
| 22... | 7 | <3 | 28 | <5 | <0.2 | <0.2 | <20 | <20 | <20 | <20 | <30 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, TOTAL RECOVERABLE (UG/L AS AG) | SILVER, DISSOLVED (UG/L AS AG) | THALLIUM, TOTAL (UG/L AS TL) | THALLIUM, DISSOLVED (UG/L AS TL) | VANADIUM, TOTAL (UG/L AS V) | VANADIUM, DISSOLVED (UG/L AS V) | ZINC, TOTAL RECOVERABLE (UG/L AS ZN) | ZINC, DISSOLVED (UG/L AS ZN) | CARBON, ORGANIC TOTAL (MG/L AS C) | CARBON, ORGANIC DISSOLVED (MG/L AS C) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **BONNET CARRE STUDY-EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <3 | <10 | <10 | <20 | <20 | <30 | <30 | <20 | <20 | 5 | 6 |
| 19... | <3 | <10 | <10 | <20 | <20 | <30 | <30 | <20 | <20 | 5 | 5 |
| 19... | <3 | <10 | <10 | <20 | <20 | <30 | <30 | 20 | <20 | 5 | 5 |
| **BONNET CARRE STUDY-EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <3 | <10 | <10 | <20 | <20 | <30 | <30 | <20 | <20 | 6 | 5 |
| 19... | <3 | <10 | <10 | <20 | <20 | <30 | <30 | <20 | <20 | 5 | 5 |
| 19... | -- | <10 | -- | <20 | -- | <30 | -- | <20 | -- | 5 | -- |
| **BONNET CARRE STUDY-EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 5 | 5 |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 5 | 5 |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 5 | 5 |
| **BONNET CARRE STUDY-EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 5 | 6 |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 6 | 5 |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 5 | 5 |
| **BONNET CARRE STUDY-EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 5 | 5 |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 5 | 5 |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 5 | 6 |
| **BONNET CARRE STUDY-EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 6 | 7 |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 6 | 6 |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 6 | 7 |
| **BONNET CARRE STUDY-EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 7 | 7 |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 1 | 1 |
| 22... | <30 | <10 | <10 | <5 | <5 | <30 | <30 | <20 | <20 | 1 | 1 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | TIME | NITROGEN, NITRITE TOTAL (MG/L AS N) | NITROGEN,, NITRITE DISSOLVED (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | NITROGEN, AMMONIA DISSOLVED (MG/L AS N) | NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) |
|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | |
| MAY 1994 | | | | | | |
| 19... | 1210 | 0.02 | <0.01 | 0.06 | -- | 0.66 |
| 19... | 1215 | 0.04 | 0.02 | 0.05 | 0.06 | 0.77 |
| 19... | 1220 | 0.05 | 0.06 | <0.05 | 0.06 | 0.51 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | |
| MAY 1994 | | | | | | |
| 19... | 1225 | 0.07 | 0.06 | 0.07 | -- | -- |
| 19... | 1230 | 0.08 | 0.06 | -- | -- | -- |
| 19... | 1235 | 0.07 | 0.05 | -- | 0.06 | -- |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | |
| MAY 1994 | | | | | | |
| 22... | 1030 | 0.02 | <0.01 | 0.02 | 0.02 | -- |
| 22... | 1035 | 0.02 | <0.01 | 0.02 | 0.02 | -- |
| 22... | 1040 | 0.02 | <0.01 | 0.02 | 0.02 | 0.39 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | |
| MAY 1994 | | | | | | |
| 22... | 1305 | 0.01 | <0.01 | 0.03 | 0.03 | 0.33 |
| 22... | 1310 | 0.01 | <0.01 | 0.03 | 0.05 | 0.20 |
| 22... | 1315 | 0.01 | <0.01 | 0.04 | 0.04 | 0.40 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | |
| MAY 1994 | | | | | | |
| 22... | 1200 | 0.01 | <0.01 | 0.03 | 0.03 | 0.30 |
| 22... | 1205 | 0.02 | <0.01 | 0.04 | -- | 0.34 |
| 22... | 1210 | 0.01 | <0.01 | 0.04 | 0.03 | 0.33 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | |
| MAY 1994 | | | | | | |
| 22... | 1530 | <0.01 | <0.01 | 0.03 | -- | -- |
| 22... | 1535 | <0.01 | <0.01 | 0.02 | 0.03 | -- |
| 22... | 1540 | <0.01 | <0.01 | 0.03 | 0.02 | -- |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | |
| MAY 1994 | | | | | | |
| 22... | 1700 | <0.01 | <0.01 | 0.05 | 0.02 | 0.50 |
| 22... | 1705 | <0.01 | <0.01 | 0.02 | 0.03 | -- |
| 22... | 1710 | <0.01 | <0.01 | -- | 0.03 | 0.47 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) | PHOSPHORUS TOTAL (MG/L AS P) | PHOSPHORUS DISSOLVED (MG/L AS P) | PHOSPHORUS ORTHO TOTAL (MG/L AS P) | PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) | CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) | CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) |
|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 19... | -- | 0.18 | -- | 0.12 | 0.07 | 1.0 | 0.2 |
| 19... | -- | 0.17 | -- | 0.07 | 0.08 | -- | -- |
| 19... | -- | 0.16 | 0.06 | 0.06 | 0.06 | -- | -- |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 19... | -- | 0.12 | -- | 0.06 | 0.06 | 1.8 | 0.2 |
| 19... | 0.28 | 0.12 | -- | 0.06 | 0.06 | -- | -- |
| 19... | 0.45 | -- | -- | 0.06 | 0.05 | -- | -- |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 22... | -- | 0.14 | 0.06 | 0.05 | 0.03 | 2.0 | 0.2 |
| 22... | -- | 0.15 | 0.05 | 0.05 | 0.05 | 3.8 | 0.4 |
| 22... | 0.13 | 0.12 | 0.05 | 0.05 | 0.05 | 4.5 | 0.5 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 22... | -- | 0.12 | 0.06 | 0.05 | 0.05 | 1.2 | 0.1 |
| 22... | 0.14 | 0.12 | 0.05 | 0.05 | 0.05 | 1.4 | 0.1 |
| 22... | -- | 0.24 | 0.06 | 0.03 | 0.04 | 1.6 | 0.1 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 22... | 0.10 | 0.14 | 0.06 | 0.04 | 0.02 | 1.4 | 0.1 |
| 22... | 0.12 | 0.11 | 0.08 | 0.04 | 0.02 | 1.2 | <0.1 |
| 22... | 0.17 | 0.12 | 0.06 | 0.03 | 0.02 | 1.5 | 0.1 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 22... | 0.10 | 0.09 | 0.05 | <0.01 | <0.01 | 4.8 | 0.6 |
| 22... | -- | 0.07 | 0.04 | <0.01 | <0.01 | 7.1 | 0.8 |
| 22... | -- | 0.08 | 0.08 | <0.01 | <0.01 | 6.2 | 0.7 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | |
| MAY 1994 | | | | | | | |
| 22... | -- | 0.06 | 0.11 | <0.01 | <0.01 | 11 | 1.3 |
| 22... | -- | 0.06 | 0.02 | <0.01 | <0.01 | 11 | 1.0 |
| 22... | 0.32 | 0.05 | 0.02 | <0.01 | <0.01 | 10 | 1.3 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | TIME | ALPHA BHC TOTAL (UG/L) | BETA BHC TOTAL (UG/L) | DELTA BHC TOTAL (UG/L) | LINDANE TOTAL (UG/L) | HEPTA-CHLOR, TOTAL (UG/L) | ALDRIN, TOTAL (UG/L) | HEPTA-CHLOR EPOXIDE TOTAL (UG/L) | ENDO-SULFAN, TOTAL (UG/L) | DI-ELDRIN TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | 1210 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 19... | 1215 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 19... | 1220 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | 1225 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 19... | 1230 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 19... | 1235 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 1030 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 22... | 1035 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 22... | 1040 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 1305 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 22... | 1310 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 22... | 1315 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 1200 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 22... | 1205 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 22... | 1210 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 1530 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 22... | 1535 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 22... | 1540 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 1700 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 22... | 1705 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |
| 22... | 1710 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | DDE, TOTAL (UG/L) | ENDRIN WATER UNFLTRD REC (UG/L) | ENDO-SULFAN-II WATER WHOLE TOT.REC (UG/L) | DDD, TOTAL (UG/L) | ENDRIN ALDE-HYDE TOTAL (UG/L) | ENDRIN KETONE WATER WHOLE TOTAL (UG/L) | ENDO-SULFAN SULFATE TOTAL (UG/L) | DDT, TOTAL (UG/L) | METH-OXY-CHLOR, TOTAL (UG/L) | ALPHA CHLOR-DANE WATER WHOLE REC (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 19... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 19... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 19... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 19... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |
| 22... | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.05 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | GAMMA CHLORDANE WATER, WHOLE, REC (UG/L) | TOXAPHENE, TOTAL (UG/L) | AROCLOR 1016 PCB TOTAL (UG/L) | AROCLOR 1221 PCB TOTAL (UG/L) | AROCLOR 1232 PCB TOTAL (UG/L) | AROCLOR 1242 PCB TOTAL (UG/L) | AROCLOR 1248 PCB TOTAL (UG/L) | AROCLOR 1254 PCB TOTAL (UG/L) | AROCLOR 1260 PCB TOTAL (UG/L) | ATRAZINE WATER UNFLTRD REC (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 2.04 |
| 19... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 2.24 |
| 19... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 2.15 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.99 |
| 19... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.96 |
| 19... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 2.02 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.95 |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.97 |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.95 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.92 |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.95 |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.89 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.86 |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.85 |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.83 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.44 |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.38 |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 1.40 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | <1.00 |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | <1.00 |
| 22... | <0.05 | <5 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | <1.00 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | SIMAZINE TOTAL (UG/L) | ALACHLOR TOTAL RECOVER (UG/L) | ACIFLUORFEN WATER UNFLTD REC (UG/L) | BENTAZON WATER UNFLTRD REC (UG/L) | CHLORAMBEN WATER UNFLTRD REC (UG/L) | 2,4-D, TOTAL (UG/L) | DALAPHON WATER UNFLTRD REC (UG/L) | 2,4-DB WATER WHOLE RECOVER (UG/L) | DCPA WATER UNFLTRD REC (UG/L) | DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | <1 | 0.18 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 19... | <1 | 0.20 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 19... | <1 | 0.20 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | <1 | 0.17 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 19... | <1 | 0.17 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 19... | <1 | 0.18 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <1 | 0.18 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 22... | <1 | 0.18 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 22... | <1 | 0.18 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <1 | 0.17 | <2 | <20 | <20 | <20 | <20 | <2 | <20 | <2 |
| 22... | <1 | 0.16 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 22... | <1 | 0.18 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <1 | 0.17 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 22... | <1 | 0.17 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 22... | <1 | 0.16 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <1 | 0.11 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 22... | <1 | 0.10 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 22... | <1 | 0.11 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <1 | <0.1 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 22... | <1 | <0.1 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |
| 22... | <1 | <0.1 | <0.1 | <1 | <1 | <1 | <1 | <0.1 | <1 | <0.1 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | 3,5 DI-CHLORO BENZOIC ACID WAT UNF REC (UG/L) | DI-CHLORO-PROP TOTAL (UG/L) | DINOSEB WATER UNFLTRD REC (UG/L) | 5-HYDROXY DICAMBA WATER UNFLTRD REC (UG/L) | 4-NITRO-PHENOL TOTAL (UG/L) | PENTA-CHLORO-PHENOL TOTAL (UG/L) | PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L) | 2,4,5-T TOTAL (UG/L) | 245-TRI CHLORO-PHENOL WATER WHOLE TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 19... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 19... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 19... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 22... | <2 | <20 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | |
| MAY 1994 | | | | | | | | | |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 22... | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | TIME | DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) | METHYL-CHLO-RIDE TOTAL (UG/L) | BROMO-METHANE WATER WHOLE RECOVER (UG/L) | VINYL CHLO-RIDE TOTAL (UG/L) | CHLORO-ETHANE TOTAL (UG/L) | TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) | 1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) | METHYL-ENE CHLO-RIDE TOTAL (UG/L) | 1,2-TRANSDI CHLORO-ETHENE TOTAL (UG/L) | 1,1-DI-CHLORO-ETHANE TOTAL (UG/L) | 2,2-DI CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | 1210 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | 1215 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | 1220 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | 1225 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | 1230 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | 1235 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1030 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | 1035 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | 1040 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1305 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | 1310 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | 1315 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1200 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | 1205 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | 1210 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1530 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | 1535 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | 1540 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1700 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | 1705 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | 1710 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L) | CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) | CHLORO- FORM TOTAL (UG/L) | 1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) | CARBON- TETRA- CHLO- RIDE TOTAL (UG/L) | 1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L) | DI- BROMO- METHANE WATER WHOLE RECOVER (UG/L) | 1,2-DI- CHLORO- ETHANE TOTAL (UG/L) | BENZENE TOTAL (UG/L) | DI- CHLORO- BROMO- METHANE TOTAL (UG/L) | 1,2-DI- CHLORO- PROPANE TOTAL (UG/L) | CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) | CHLORO-DI-BROMO-METHANE TOTAL (UG/L) | 1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) | TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) | 1,3-DI-CHLORO-PROPANE TOTAL (UG/L) | 1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) | TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) | TOLUENE TOTAL (UG/L) | ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) | ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) | BROMO-FORM TOTAL (UG/L) | CHLORO-BENZENE TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—*Continued*

| DATE | ETHYL-BENZENE TOTAL (UG/L) | STYRENE TOTAL (UG/L) | O-XYLENE WATER WHOLE TOTAL (UG/L) | P-XYLENE WATER WHOLE TOTAL (UG/L) | BENZENE 1,3-DI-CHLORO- WATER UNFLTRD REC (UG/L) | BENZENE 1,4-DI-CHLORO- WATER UNFLTRD REC (UG/L) | BENZENE O-CHLORO- WATER UNFLTRD REC (UG/L) | BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) | BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) | TOLUENE O-CHLOR WATER UNFLTRD REC (UG/L) | DIBROMO CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) | ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | 123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) | BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) | TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) | P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) | BENZENE N-PROPY WATER UNFLTRD REC (UG/L) | 1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) | PSEUDO-CUMENE WATER UNFLTRD REC (UG/L) | BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) | NAPHTH-ALENE TOTAL (UG/L) | BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) | MESIT-YLENE WATER UNFLTRD REC (UG/L) | HEXA-CHLORO-BUTA-DIENE WAT.WH. TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 19... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 22... | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | TIME | ACE-NAPHTHENE TOTAL (UG/L) | ACE-NAPHTHYLENE TOTAL (UG/L) | ANTHRACENE TOTAL (UG/L) | BENZIDINE TOTAL (UG/L) | BENZOIC ACID WATER WHOLE TOTAL (UG/L) | BENZO A ANTHRACENE1,2-BENZANTHRACENE TOTAL (UG/L) | BENZO-A-PYRENE TOTAL (UG/L) | BENZO B FLUORANTHENE TOTAL (UG/L) | BENZOGH I PERYLENE1,12-BENZOPERYLENE TOTAL (UG/L) | BENZO K FLUORANTHENE TOTAL (UG/L) | BENZYL ALCOHOL WATER WHOLE TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | 1210 | <2 | <2 | <2 | -- | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 19... | 1215 | <2 | <2 | <2 | -- | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 19... | 1220 | <2 | <2 | <2 | -- | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | 1225 | <2 | <2 | <2 | -- | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 19... | 1230 | <2 | <2 | <2 | -- | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 19... | 1235 | <2 | <2 | <2 | -- | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1030 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 22... | 1035 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 22... | 1040 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1305 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 22... | 1310 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 22... | 1315 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1200 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 22... | 1205 | <2 | <2 | <2 | -- | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 22... | 1210 | <2 | <2 | <2 | -- | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1530 | <2 | <2 | <2 | -- | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 22... | 1535 | <2 | <2 | <2 | -- | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 22... | 1540 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1700 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 22... | 1705 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |
| 22... | 1710 | <2 | <2 | <2 | <20 | <10 | <8 | <8 | <8 | <8 | <8 | <4 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | BIS (2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) | BIS 2-CHLORO-ETHYL ETHER TOTAL (UG/L) | BIS (2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) | BIS(2-ETHYL HEXYL) PHTHALATE TOTAL (UG/L) | 4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) | N-BUTYL BENZYL PHTHALATE TOTAL (UG/L) | CARBAZOLE TOTAL (UG/L) | 4-CHLORO ANILINE WATER, WHOLE, REC. (UG/L) | 2-CHLORO-NAPHTHALENE TOTAL (UG/L) | 2-CHLORO-PHENOL TOTAL (UG/L) | 4-CHLORO-PHENYL PHENYL ETHER TOTAL (UG/L) | 4-CHLORO-3-METHYL-PHENOL TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <2 | <2 | <2 | 4.1 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 19... | <2 | <2 | <2 | 124 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 19... | <2 | <2 | <2 | <4 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <2 | <2 | <2 | 7.8 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 19... | <2 | <2 | <2 | <4 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 19... | <2 | <2 | <2 | <4 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <2 | <2 | <2 | 288 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 22... | <2 | <2 | <2 | <4 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 22... | <2 | <2 | <2 | <4 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <2 | <2 | <2 | <4 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 22... | <2 | <2 | <2 | <4 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 22... | <2 | <2 | <2 | 19.7 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <2 | <2 | <2 | <4 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 22... | <2 | <2 | <2 | 13.1 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 22... | <2 | <2 | <2 | 5.9 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <2 | <2 | <2 | 128 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 22... | <2 | <2 | <2 | <4 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 22... | <2 | <2 | <2 | <4 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <4 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <2 | <2 | <2 | 19.5 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 22... | <2 | <2 | <2 | 245 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |
| 22... | <2 | <2 | <2 | 42.2 | <8 | <4 | <10 | <4 | <2 | <4 | <8 | <8 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | CHRY-SENE TOTAL (UG/L) | DIBENZO FURAN WATER WHOLE TOTAL (UG/L) | 1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) | BENZENE O- CHLORO- WATER UNFLTRD REC (UG/L) | BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) | BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) | 3,3'- DI- CHLORO- BENZI- DINE TOTAL (UG/L) | 2,4-DI- CHLORO- PHENOL TOTAL (UG/L) | DIETHYL PHTHAL- ATE TOTAL (UG/L) | 2,4-DI- METHYL- PHENOL TOTAL (UG/L) | DI- METHYL PHTHAL- ATE TOTAL (UG/L) | 2,4,- DI- NITRO- PHENOL TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 19... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 19... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 19... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 19... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |
| 22... | <8 | <2 | <8 | <0.5 | <0.5 | <0.5 | <10 | <6 | <2 | <6 | <2 | <30 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | 2,4-DI-NITRO-TOLUENE TOTAL (UG/L) | 2,6-DI-NITRO-TOLUENE TOTAL (UG/L) | 4,6-DINITRO-2-METHYL-PHENOL TOTAL (UG/L) | DI-N-BUTYL PHTHALATE TOTAL (UG/L) | DI-N-OCTYL PHTHALATE TOTAL (UG/L) | FLUORANTHENE TOTAL (UG/L) | FLUORENE TOTAL (UG/L) | HEXACHLOROBENZENE TOTAL (UG/L) | HEXACHLOROBUTADIENE WAT.WH. TOTAL (UG/L) | HEXACHLOROCYCLOPENTADIENE TOTAL (UG/L) | HEXACHLOROETHANE TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <6 | <6 | <20 | 10.7 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 19... | <6 | <6 | <20 | 3.6 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 19... | <6 | <6 | <20 | 3.2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <6 | <6 | <20 | 2.5 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 19... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 19... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |
| 22... | <6 | <6 | <20 | <2 | <4 | <2 | <2 | <2 | <0.5 | <10 | <3 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) | ISO-PHORONE TOTAL (UG/L) | 2METHYL NAPH-THALENE WATER WHOLE RECOVER (UG/L) | 2-METHYL-PHENOL TOTAL (UG/L) | 4-METHYL-PHENOL TOTAL (UG/L) | NAPHTH-ALENE TOTAL (UG/L) | 2-NITRO ANILINE WATER WHOLE RECOVER (UG/L) | 3-NITRA NILINE WATER WHOLE TOTAL (UG/L) | 4-NITRO ANILINE WATER, WHOLE, REC., (UG/L) | NITRO-BENZENE TOTAL (UG/L) | 2-NITRO-PHENOL TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 19... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 19... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 19... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 19... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |
| 22... | <8 | <4 | <2 | <6 | <6 | <0.5 | <8 | <8 | <8 | <2 | <10 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | 4-NITRO-PHENOL TOTAL (UG/L) | N-NITRO-SODI-PHENY-LAMINE TOTAL (UG/L) | N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) | PENTA-CHLORO-PHENOL TOTAL (UG/L) | PHENAN-THRENE TOTAL (UG/L) | PHENOL (C6H-5OH) TOTAL (UG/L) | PYRENE TOTAL (UG/L) | PYRI-DINE TOTAL (UG/L) | BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) | 245-TRI CHLORO-PHENOL WATER WHOLE TOTAL (UG/L) | 2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| 19... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| 19... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| 19... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| 19... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | <20 | <0.5 | <0.1 | <6 |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | <20 | <0.5 | <0.1 | <6 |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | <20 | <0.5 | <0.1 | <6 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <2 | <4 | <6 | <2 | <2 | <4 | <2 | <20 | <0.5 | <2 | <6 |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | <20 | <0.5 | <0.1 | <6 |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | <20 | <0.5 | <0.1 | <6 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | <20 | <0.5 | <0.1 | <6 |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | <20 | <0.5 | <0.1 | <6 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | -- | <0.5 | <0.1 | <6 |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | <20 | <0.5 | <0.1 | <6 |
| 22... | <0.1 | <4 | <6 | <0.1 | <2 | <4 | <2 | <20 | <0.5 | <0.1 | <6 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | TIME | CALCIUM RECOV. FM BOTTOM MATERIAL (MG/KG AS CA) | MAGNESIUM, RECOV. FM BOTTOM MATERIAL (MG/KG) | SODIUM, RECOV. FM BOTTOM MATERIAL (MG/KG AS NA) | POTASSIUM, RECOV. FM BOTTOM MATERIAL (MG/KG) | NITROGEN, NITRATE TOT IN BOT MAT (MG/KG AS N) | NITROGEN, NITRITE TOT IN BOT MAT (MG/KG AS N) | NITROGEN,NH3 TOTAL IN BOT. MAT. (MG/KG AS N) | NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) | PHOSPHORUS ORTHO, TOT IN BOT MAT (MG/KG AS P) | PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | 1210 | 8260 | 6080 | 209 | 4310 | 0.98 | 24.3 | 271 | 1300 | 102 | 157 |
| 19... | 1215 | 7920 | 5720 | 168 | 3380 | <0.02 | 1.8 | 380 | 1410 | 80 | 275 |
| 19... | 1220 | 8100 | 5840 | 171 | 3470 | <0.02 | 2.3 | 412 | 1480 | 100 | 400 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | 1225 | 6710 | 4650 | 815 | 3730 | -- | 2.8 | 82 | 5380 | 24 | 1360 |
| 19... | 1230 | 105000 | 10400 | 4410 | 8920 | 0.53 | 5.5 | 1050 | 9470 | 41 | 1090 |
| 19... | 1235 | 7800 | 5390 | 965 | 3900 | -- | 3.9 | 871 | 1210 | 48 | 1360 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | 1030 | 1790 | 1760 | 162 | 930 | 0.55 | <0.13 | -- | 79 | <3.2 | 244 |
| 22... | 1035 | 1780 | 1710 | 144 | 775 | 0.94 | <0.13 | -- | 75 | <3.2 | 26 |
| 22... | 1040 | 2020 | 1870 | 179 | 983 | 0.49 | <0.13 | -- | 63 | <3.2 | 254 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | 1305 | 8740 | 3610 | 562 | 2480 | 1.4 | <0.15 | -- | 515 | <4.2 | 692 |
| 22... | 1310 | 2980 | 3640 | 535 | 2720 | 1.0 | <0.16 | -- | 366 | <4.0 | 303 |
| 22... | 1315 | 3870 | 3580 | 499 | 2420 | 1.5 | <0.15 | -- | 318 | <4.0 | 981 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | 1200 | 1710 | 1390 | 191 | 923 | 3.2 | <0.14 | -- | 282 | <3.4 | 644 |
| 22... | 1205 | 1860 | 1780 | 250 | 1180 | 3.2 | <0.13 | -- | 522 | <3.7 | 385 |
| 22... | 1210 | 1890 | 1970 | 289 | 1440 | 3.3 | <0.13 | -- | 628 | <3.7 | 199 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | 1530 | 12600 | 5560 | 825 | 3130 | 6.6 | <0.17 | -- | 613 | 29 | 400 |
| 22... | 1535 | 17200 | 5970 | 973 | 3880 | 5.0 | <0.15 | -- | 902 | 29 | 336 |
| 22... | 1540 | 6920 | 5740 | 842 | 3100 | 6.1 | <0.17 | -- | 1160 | 71 | 330 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | 1700 | 7260 | 9120 | 2080 | 5940 | 12 | <0.24 | -- | 1050 | 137 | 686 |
| 22... | 1705 | 6450 | 8730 | 1990 | 5570 | 15 | <0.24 | -- | -- | 190 | 500 |
| 22... | 1710 | 6280 | 8400 | 2010 | 5180 | 17 | 0.21 | -- | 2530 | 226 | 512 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G) | ANTIMONY, TOTAL IN BOTTOM MATERIAL (UG/G) | ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) | BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) | BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G) | CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) | CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) | COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) | COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) | IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) |
|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | 29700 | 8 | 7.7 | 212 | 1 | <0.5 | 32 | 13 | 18 | 24200 |
| 19... | 25800 | 8 | 7.0 | 199 | 1 | <0.5 | 28 | 14 | 18 | 24000 |
| 19... | 26000 | 9 | 8.0 | 200 | 1 | <0.5 | 29 | 14 | 18 | 24000 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | 21600 | <14 | 11 | 222 | <1 | <1 | 25 | 10 | 21 | 22100 |
| 19... | 40400 | <17 | 10 | 178 | <1 | <1 | 26 | 9 | 16 | 21500 |
| 19... | 23300 | <14 | 7.7 | 247 | <1 | <1 | 28 | 12 | 24 | 26000 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 5070 | <8 | 2.0 | 50 | <1 | <1 | 10 | 5 | <3 | 6830 |
| 22... | 4650 | <8 | 2.5 | 49 | <1 | <1 | 10 | 5 | <3 | 6520 |
| 22... | 5380 | <8 | <1.6 | 52 | <1 | <1 | 10 | 5 | <3 | 6830 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 15300 | <10 | 3.9 | 157 | <1 | <1 | 21 | 8 | 14 | 17800 |
| 22... | 16600 | <10 | 6.8 | 151 | <1 | <1 | 22 | 9 | 14 | 19400 |
| 22... | 15400 | <9 | 5.4 | 174 | <1 | <1 | 21 | 9 | 14 | 19800 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 5190 | <8 | 2.7 | 78 | <1 | <1 | 8 | 4 | <3 | 6360 |
| 22... | 6910 | <9 | 4.6 | 89 | <1 | <1 | 10 | 4 | <3 | 7520 |
| 22... | 7940 | <9 | 4.1 | 97 | <1 | <1 | 12 | 4 | <3 | 8140 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 17900 | <10 | 4.7 | 152 | <1 | <1 | 23 | 8 | 11 | 15900 |
| 22... | 21600 | <10 | 7.1 | 182 | <1 | <1 | 24 | 8 | 14 | 17300 |
| 22... | 18100 | <10 | 11 | 152 | <1 | <1 | 23 | 8 | 13 | 17100 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 34800 | <14 | 11 | 152 | <1 | <1 | 30 | 12 | 17 | 27600 |
| 22... | 33100 | <14 | 8.8 | 144 | <1 | <1 | 31 | 12 | 16 | 26500 |
| 22... | 31200 | <14 | 9.8 | 143 | <1 | <1 | 32 | 12 | 16 | 26000 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) | MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) | MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) | NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) | SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) | SILVER, RECOV. FM BOTTOM MATERIAL (UG/G AS AG) | THALLIUM. TOTAL BOT.MATERIAL (UG/G AS TL) | TIN RECOV. FROM BOT.MAL (UG/KG AS SN) | VANADIUM, TOTAL IN BOTTOM MATERIAL (UG/G) | ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | 21 | 955 | <0.10 | 27 | <1.2 | <1 | <2.0 | 11000 | 55 | 954 |
| 19... | 22 | 975 | <0.10 | 27 | <1.2 | <1 | <2.0 | 10000 | 48 | 94 |
| 19... | 22 | 991 | <0.10 | 27 | <1.1 | <1 | <1.8 | 11000 | 49 | 95 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | 18 | 1440 | <0.24 | 21 | <2.6 | <2 | <4.4 | 14000 | 46 | 73 |
| 19... | 18 | 522 | <0.29 | 16 | <3.2 | <3 | <5.4 | 15000 | 71 | 73 |
| 19... | 23 | 1710 | <0.24 | 24 | <2.9 | <2 | <4.8 | 11000 | 49 | 84 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 5 | 220 | <0.13 | 10 | 2.8 | <1 | <2.6 | 6000 | 14 | 24 |
| 22... | 5 | 213 | <0.13 | 9 | <1.6 | <1 | <2.6 | 6000 | 13 | 23 |
| 22... | 5 | 203 | <0.13 | 10 | <1.6 | <1 | <2.6 | 6000 | 14 | 24 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 14 | 1030 | <0.17 | 15 | 3.3 | <2 | <3.4 | 10000 | 34 | 38 |
| 22... | 14 | 1100 | <0.16 | 17 | 2.4 | <2 | <3.2 | 9000 | 38 | 40 |
| 22... | 12 | 1230 | <0.16 | 17 | <1.9 | <2 | <3.2 | 9000 | 34 | 39 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 5 | 612 | <0.14 | 6 | 2.4 | <1 | <2.8 | 6000 | 13 | 22 |
| 22... | 7 | 678 | <0.15 | 7 | 2.5 | <1 | <3.0 | 7000 | 16 | 25 |
| 22... | 6 | 667 | <0.15 | 8 | <1.7 | <1 | <2.8 | 7000 | 18 | 27 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 12 | 517 | <0.17 | 17 | <1.9 | <2 | <3.2 | 12000 | 40 | 55 |
| 22... | 15 | 570 | <0.16 | 18 | 3.3 | <2 | <3.2 | 13000 | 48 | 59 |
| 22... | 14 | 544 | <0.17 | 19 | <2.0 | <2 | <3.4 | 12000 | 41 | 39 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | 22 | 721 | <0.24 | 27 | <2.8 | <2 | <4.6 | 19000 | 74 | 86 |
| 22... | 20 | 704 | <0.24 | 27 | <2.8 | <2 | <4.6 | 18000 | 70 | 82 |
| 22... | 20 | 789 | <0.24 | 24 | <2.9 | <2 | <4.8 | 18000 | 67 | 79 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | TIME | ALPHA-BHC SOIL RECOVER (MG/KG) | BETA-BHC SOIL RECOVER (MG/KG) | DELTA-BHC SOIL RECOVER (MG/KG) | GAMMA-BHC SOIL RECOVER (MG/KG) | HEPTA-CHLOR SOIL RECOVER (MG/KG) | ALDRIN SOIL RECOVER (MG/KG) | HEPTA-CHLOR EPOXIDE SOIL RECOVER (MG/KG) | ENDO-SULFAN I SOIL RECOVER (MG/KG) | DIEL-DRIN SOIL RECOVER (MG/KG) | 4,4'-DDE SOIL RECOVER (MG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | 1210 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 19... | 1215 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 19... | 1220 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | 1225 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 19... | 1230 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 19... | 1235 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | 1030 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 22... | 1035 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 22... | 1040 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | 1305 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 22... | 1310 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 22... | 1315 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | 1200 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 22... | 1205 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 22... | 1210 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | 1530 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 22... | 1535 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 22... | 1540 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | 1700 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 22... | 1705 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 22... | 1710 | <0.04 | <0.06 | <0.05 | <0.03 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | ENDRIN SOIL RECOVER (MG/KG) | ENDO-SULFAN II SOIL RECOVER (MG/KG) | 4,4'-DDD SOIL RECOVER (MG/KG) | ENDRIN ALDE-HYDE SOIL RECOVER (MG/KG) | ENDRIN KETONE, TOTAL IN BOT-TOM MA-TERIAL (UG/G) | ENDO-SULFAN SULFATE SOIL RECOVER (MG/KG) | 4,4'-DDT SOIL RECOVER (MG/KG) | METH-OXY-CHLOR SOIL RECOVER (MG/KG) | CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) | GAMMA CHLOR-DANE, TOT. IN BOTTOM MATL. (UG/KG) | TOXA-PHENE SOIL RECOVER (MG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 19... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 19... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 19... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 19... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |
| 22... | <0.05 | <0.04 | <0.05 | <0.05 | <0.06 | <0.06 | <0.04 | <0.1 | <60 | <60 | <2 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | AROCLOR 1016 PCB BOT.MAT (UG/KG) | AROCLOR 1021 PCB BOT.MAT (UG/G ) | AROCLOR 1232 IN BOTTOM MAT. (UG/KG) | AROCLOR 1242 PCB BOT.MAT (UG/KG) | AROCLOR 1248 PCB BOT.MAT (UG/KG) | AROCLOR 1254 PCB BOT.MAT (UG/KG) | AROCLOR 1260 PCB BOT.MAT (UG/KG) | ATRA-ZINE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) | SIMA-ZINE IN BOTTOM MATERI-AL (UG/ KG DRY SOLIDS) | ALA-CHLOR, SED, BOT MAT REC (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 19... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 19... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 19... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 19... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 19... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |
| 22... | <500 | <3 | <500 | <500 | <500 | <500 | <500 | <1000 | <1000 | <100 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | TIME | ACE-NAPHTH-ENE BOT.MAT (UG/KG) | ACE-NAPHTH-YLENE BOT.MAT (UG/KG) | ANTHRA-CENE BOT.MAT (UG/KG) | BENZI-DINE BOT.MAT (UG/KG) | BENZOIC ACID SOIL RECOVER (MG/KG) | BENZO A ANTHRAC ENE1,2-BENZANT HRACENE BOT.MAT (UG/KG) | BENZO-A-PYRENE BOT.MAT (UG/KG) | BENZO B FLUOR-AN-THENE BOT.MAT (UG/KG) | BENZOGH I PERYL ENE1,12 -BENZOP ERYLENE BOT.MAT (UG/KG) | BENZO K FLUOR-AN-THENE BOT.MAT (UG/KG) | BENZYL-ALCOHOL SOIL RECOVER (MG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | 1210 | <1972 | <1972 | <1972 | <19720 | <9.860 | <7888 | <7888 | <7888 | <7888 | <7888 | <3.944 |
| 19... | 1215 | <216 | <216 | <216 | <2160 | <1.080 | <864 | <864 | <864 | <864 | <864 | <0.432 |
| 19... | 1220 | <180 | <180 | <180 | <1800 | <0.900 | <720 | <720 | <720 | <720 | <720 | <0.360 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | 1225 | <340 | <340 | <340 | <3400 | <1.70 | <1360 | <1360 | <1360 | <1360 | <1360 | <0.680 |
| 19... | 1230 | <460 | <460 | <460 | <4600 | <2.30 | <1840 | <1840 | <1840 | <1840 | <1840 | <0.920 |
| 19... | 1235 | <452 | <452 | <452 | <4520 | <2.26 | <1808 | <1808 | <1808 | <1808 | <1808 | <0.904 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1030 | <136 | <136 | <136 | <1360 | <0.680 | <544 | <544 | <544 | <544 | <544 | <0.272 |
| 22... | 1035 | <126 | <126 | <126 | <1260 | <0.630 | <504 | <504 | <504 | <504 | <504 | <0.252 |
| 22... | 1040 | <132 | <132 | <132 | <1320 | <0.660 | <528 | <528 | <528 | <528 | <528 | <0.264 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1305 | <250 | <250 | <250 | <2500 | <1.250 | <1000 | <1000 | <1000 | <1000 | <1000 | <0.500 |
| 22... | 1310 | <166 | <166 | <166 | <1660 | <0.830 | <664 | <664 | <664 | <664 | <664 | <0.332 |
| 22... | 1315 | <164 | <164 | <164 | <1640 | <0.820 | <656 | <656 | <656 | <656 | <656 | <0.328 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1200 | <142 | <142 | <142 | <1420 | <0.710 | <568 | <568 | <568 | <568 | <568 | <0.284 |
| 22... | 1205 | <106 | <106 | <106 | <1060 | <0.530 | <424 | <424 | <424 | <424 | <424 | <0.212 |
| 22... | 1210 | <136 | <136 | <136 | <1360 | <0.680 | <544 | <544 | <544 | <544 | <544 | <0.272 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1530 | <98 | <98 | <98 | <980 | <0.490 | <392 | <392 | <392 | <392 | <392 | <0.196 |
| 22... | 1535 | <96 | <96 | <96 | <960 | <0.480 | <384 | <384 | <384 | <384 | <384 | <0.192 |
| 22... | 1540 | <100 | <100 | <100 | <1000 | <0.500 | <400 | <400 | <400 | <400 | <400 | <0.200 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | 1700 | <152 | <152 | <152 | <1520 | <0.760 | <608 | <608 | <608 | <608 | <608 | <0.304 |
| 22... | 1705 | <228 | <228 | <228 | <2280 | <1.140 | <912 | <912 | <912 | <912 | <912 | <0.456 |
| 22... | 1710 | <132 | <132 | <132 | <1320 | <0.660 | <528 | <528 | <528 | <528 | <528 | <0.264 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | BIS (2-CHLORO-ETHOXY) METHANE BOT.MAT (UG/KG) | BIS (2-CHLORO-ETHYL) ETHER BOT.MAT (UG/KG) | BIS (2-CHLORO-ISO-PROPYL) ETHER BOT.MAT (UG/KG) | BIS(2-ETHYL HEXYL) PHTHAL-ATE BOT.MAT (UG/KG) | 4-BROMO-PHENYL PHENYL ETHER BOT.MAT (UG/KG) | N-BUTYL BENZYL PHTHAL-ATE BOT.MAT (UG/KG) | CARBA-ZOLE-BOT.MAT (UG/KG) | 4-CHLORO-ANI-LINE BOT.MAT (UG/KG) | 2-CHLORO-NAPH-THALENE BOT.MAT (UG/KG) | 2-CHLORO-PHENOL BOT.MAT (UG/KG) | 4-CHLORO-PHENYL PHENYL ETHER BOT.MAT (UG/KG) | 4CHLORO 3METHYL PHENOL SOIL RECOVER (MG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <1972 | <1972 | <1972 | <3944 | <7888 | <3944 | <9860 | <3944 | <1972 | <3944 | <7888 | <7.888 |
| 19... | <216 | <216 | <216 | <432 | <864 | <432 | <1080 | <432 | <216 | <432 | <864 | <0.864 |
| 19... | <180 | <180 | <180 | <360 | <720 | <360 | <900 | <360 | <180 | <360 | <720 | <0.720 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <340 | <340 | <340 | <680 | <1360 | <680 | <1700 | <680 | <340 | <680 | <1360 | <1.360 |
| 19... | <460 | <460 | <460 | <920 | <1840 | <920 | <2300 | <920 | <460 | <920 | <1840 | <1.840 |
| 19... | <452 | <452 | <452 | <904 | <1808 | <904 | <2260 | <904 | <452 | <904 | <1808 | <1.808 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <136 | <136 | <136 | 826 | <544 | <272 | <680 | <272 | <136 | <272 | <544 | <0.544 |
| 22... | <126 | <126 | <126 | <252 | <504 | <252 | <630 | <252 | <126 | <252 | <504 | <0.504 |
| 22... | <132 | <132 | <132 | <264 | <528 | <264 | <660 | <264 | <132 | <264 | <528 | <0.528 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <250 | <250 | <250 | <500 | <1000 | <500 | <1250 | <500 | <250 | <500 | <1000 | <1.000 |
| 22... | <166 | <166 | <166 | 1870 | <664 | <332 | <830 | <332 | <166 | <332 | <664 | <0.664 |
| 22... | <164 | <164 | <164 | 2790 | <656 | <328 | <820 | <328 | <164 | <328 | <656 | <0.656 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <142 | <142 | <142 | 874 | <568 | <284 | <710 | <284 | <142 | <284 | <568 | <0.568 |
| 22... | <106 | <106 | <106 | <212 | <424 | <212 | <530 | <212 | <106 | <212 | <424 | <0.424 |
| 22... | <136 | <136 | <136 | <272 | <544 | <272 | <680 | <272 | <136 | <272 | <544 | <0.544 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <98 | <98 | <98 | <196 | <392 | <196 | <490 | <196 | <98 | <196 | <392 | <0.392 |
| 22... | <96 | <96 | <96 | <192 | <384 | <192 | <480 | <192 | <96 | <192 | <384 | <0.384 |
| 22... | <100 | <100 | <100 | <200 | <400 | <200 | <500 | <200 | <100 | <200 | <400 | <0.400 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <152 | <152 | <152 | <304 | <608 | <304 | <760 | <304 | <152 | <304 | <608 | <0.608 |
| 22... | <228 | <228 | <228 | <456 | <912 | <456 | <1140 | <456 | <228 | <456 | <912 | <0.912 |
| 22... | <132 | <132 | <132 | <264 | <528 | <264 | <660 | <264 | <132 | <264 | <528 | <0.528 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | CHRY-SENE BOT.MAT (UG/KG) | DIBENZO FURAN SOIL RECOVER (MG/KG) | 1,2,5,6 -DIBENZ -ANTHRA -CENE BOT.MAT (UG/KG) | 1,2-DI-CHLORO-BENZENE BOT.MAT (UG/KG) | 1,3-DI-CHLORO-BENZENE BOT.MAT (UG/KG) | 1,4-DI-CHLORO-BENZENE BOT.MAT (UG/KG) | 3,3'-DI-CHLORO-BENZI-DINE BOT.MAT (UG/KG) | 2,4-DI-CHLORO-PHENOL BOT.MAT (UG/KG) | DIETHYL PHTHAL-ATE BOT.MAT (UG/KG) | 2,4-DI-METHYL-PHENOL SOIL RECOVER (MG/KG) | DI-METHYL PHTHAL-ATE BOT.MAT (UG/KG) | 2,4-DI-NITRO-PHENOL SOIL RECOVER (MG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <7888 | <1.972 | <7888 | <2958 | <2958 | <2958 | <9860 | <5916 | <1972 | <5.916 | <1972 | <29580 |
| 19... | <864 | <0.216 | <864 | <324 | <324 | <324 | <1080 | <648 | <216 | <0.648 | <216 | <3240 |
| 19... | <720 | <0.180 | <720 | <270 | <270 | <270 | <900 | <540 | <180 | <0.540 | <180 | <2700 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 19... | <1360 | <0.340 | <1360 | <510 | <510 | <510 | <1700 | <1020 | <340 | <1.020 | <340 | <5100 |
| 19... | <1840 | <0.460 | <1840 | <690 | <690 | <690 | <2300 | <1380 | <460 | <1.380 | <460 | <6900 |
| 19... | <1808 | <0.452 | <1808 | <678 | <678 | <678 | <2260 | <1356 | <452 | <1.356 | <452 | <6780 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <544 | <0.136 | <544 | <204 | <204 | <204 | <680 | <408 | <136 | <0.408 | <136 | <2040 |
| 22... | <504 | <0.126 | <504 | <189 | <189 | <189 | <630 | <378 | <126 | <0.378 | <126 | <1890 |
| 22... | <528 | <0.132 | <528 | <198 | <198 | <198 | <660 | <396 | <132 | <0.396 | <132 | <1980 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <1000 | <0.250 | <1000 | <375 | <375 | <375 | <1250 | <750 | <250 | <0.750 | <250 | <3750 |
| 22... | <664 | <0.166 | <664 | <249 | <249 | <249 | <830 | <498 | <166 | <0.498 | <166 | <2490 |
| 22... | <656 | <0.164 | <656 | <246 | <246 | <246 | <820 | <492 | <164 | <0.492 | <164 | <2460 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <568 | <0.142 | <568 | <213 | <213 | <213 | <710 | <426 | <142 | <0.426 | <142 | <2130 |
| 22... | <424 | <0.106 | <424 | <159 | <159 | <159 | <530 | <318 | <106 | <0.318 | <106 | <1590 |
| 22... | <544 | <0.136 | <544 | <204 | <204 | <204 | <680 | <408 | <136 | <0.408 | <136 | <2040 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <392 | <0.098 | <392 | <147 | <147 | <147 | <490 | <294 | <98 | <0.294 | <98 | <1470 |
| 22... | <384 | <0.096 | <384 | <144 | <144 | <144 | <480 | <288 | <96 | <0.288 | <96 | <1440 |
| 22... | <400 | <0.100 | <400 | <150 | <150 | <150 | <500 | <300 | <100 | <0.300 | <100 | <1500 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | | |
| 22... | <608 | <0.152 | <608 | <228 | <228 | <228 | <760 | <456 | <152 | <0.456 | <152 | <2280 |
| 22... | <912 | <0.228 | <912 | <342 | <342 | <342 | <1140 | <684 | <228 | <0.684 | <228 | <3420 |
| 22... | <528 | <0.132 | <528 | <198 | <198 | <198 | <660 | <396 | <132 | <0.396 | <132 | <1980 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | 2,4-DI-NITRO-TOLUENE BOT.MAT (UG/KG) | 2,6-DI-NITRO-TOLUENE BOT.MAT (UG/KG) | 2METHYL 4,6-DI-NITRO-PHENOL SOIL RECOVER (MG/KG) | DI-N-BUTYL PHTHAL-ATE BOT.MAT (UG/KG) | DI-N-OCTYL PHTHAL-ATE BOT.MAT (UG/KG) | FLUOR-ANTHENE BOT.MAT (UG/KG) | FLUOR-ENE BOT.MAT (UG/KG) | HEXA-CHLORO-BENZENE TOT. IN BOTTOM MATL. (UG/KG) | HEXA-CHLORO-BUT-ADIENCE BOT.MAT (UG/KG) | HEXA-CHLORO-CYCLO-PENT-ADIENE BOT.MAT (UG/KG) | HEXA-CHLORO-ETHANE BOT.MAT (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <5916 | <5916 | <19.72 | <1972 | <3944 | <1972 | <1972 | <1972 | <4930 | <9860 | <2958 |
| 19... | <648 | <648 | <2.16 | <216 | <432 | <216 | <216 | <216 | <540 | <1080 | <324 |
| 19... | <540 | <540 | <1.80 | <180 | <360 | <180 | <180 | <180 | <450 | <900 | <270 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <1020 | <1020 | <3.40 | <340 | <680 | <340 | <340 | <340 | <850 | <1700 | <510 |
| 19... | <1380 | <1380 | <4.60 | <460 | <920 | <460 | <460 | <460 | <1150 | <2300 | <690 |
| 19... | <1356 | <1356 | <4.52 | <452 | <904 | <452 | <452 | <452 | <1130 | <2260 | <678 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <408 | <408 | <1.36 | <136 | <272 | <136 | <136 | <136 | <340 | <680 | <204 |
| 22... | <378 | <378 | <1.26 | <126 | <252 | <126 | <126 | <126 | <315 | <630 | <189 |
| 22... | <396 | <396 | <1.32 | <132 | <264 | <132 | <132 | <132 | <330 | <660 | <198 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <750 | <750 | <2.50 | <250 | <500 | <250 | <250 | <250 | <625 | <1250 | <375 |
| 22... | <498 | <498 | <1.66 | <166 | <332 | <166 | <166 | <166 | <415 | <830 | <249 |
| 22... | <492 | <492 | <1.64 | <164 | <328 | <164 | <164 | <164 | <410 | <820 | <246 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <426 | <426 | <1.42 | <142 | <284 | <142 | <142 | <142 | <355 | <710 | <213 |
| 22... | <318 | 318 | <1.06 | <106 | <212 | <106 | <106 | <106 | <265 | <530 | <159 |
| 22... | <408 | <408 | <1.36 | <136 | <272 | <136 | <136 | <136 | <340 | <680 | <204 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <294 | <294 | <0.98 | <98 | <196 | <98 | <98 | <98 | <245 | <490 | <147 |
| 22... | <288 | <288 | <0.96 | <96 | <192 | <96 | <96 | <96 | <240 | <480 | <144 |
| 22... | <300 | <300 | <1.00 | <100 | <200 | <100 | <100 | <100 | <250 | <500 | <150 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <456 | <456 | <1.52 | <152 | <304 | <152 | <152 | <152 | <380 | <760 | <228 |
| 22... | <684 | <684 | <2.28 | <228 | <456 | <228 | <228 | <228 | <570 | <1140 | <342 |
| 22... | <396 | <396 | <1.32 | <132 | <264 | <132 | <132 | <132 | <330 | <660 | <198 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | INDENO (1,2,3-CD) PYRENE BOT.MAT (UG/KG) | ISO-PHORONE BOT.MAT (UG/KG) | 2-METHYL-NAPH-THALENE SOIL RECOVER (MG/KG) | 2-METHYL-PHENOL SOIL RECOVER (MG/KG) | 4-METHYL-PHENOL SOIL RECOVER (MG/KG) | NAPHTH-ALENE BOT.MAT (UG/KG) | 2-NITRO ANILINE SOIL RECOVER (MG/KG) | 3-NITRO ANILINE SOIL RECOVER (MG/KG) | 4-NITRO ANILINE SOIL RECOVER (MG/KG) | NITRO-BENZENE BOT.MAT (UG/KG) | 2-NITRO-PHENOL BOT.MAT (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <7888 | <3944 | <1.972 | <5.916 | <5.916 | <1972 | <7.888 | <7.888 | <7.888 | <1972 | <9860 |
| 19... | <864 | <432 | <0.216 | <0.648 | <0.648 | <216 | <0.864 | <0.864 | <0.864 | <216 | <1080 |
| 19... | <720 | <360 | <0.180 | <0.540 | <0.540 | <180 | <0.720 | <0.720 | <0.720 | <180 | <900 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <1360 | <680 | <0.340 | <1.020 | <1.020 | <340 | <1.360 | <1.360 | <1.360 | <340 | <1700 |
| 19... | <1840 | <920 | <0.460 | <1.380 | <1.380 | <460 | <1.840 | <1.840 | <1.840 | <460 | <2300 |
| 19... | <1808 | <904 | <0.452 | <1.356 | <1.356 | <452 | <1.808 | <1.808 | <1.808 | <452 | <2260 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <544 | <272 | <0.136 | <0.408 | <0.408 | <136 | <0.544 | <0.544 | <0.544 | <136 | <680 |
| 22... | <504 | <252 | <0.126 | <0.378 | <0.378 | <126 | <0.504 | <0.504 | <0.504 | <126 | <630 |
| 22... | <528 | <264 | <0.132 | <0.396 | <0.396 | <132 | <0.528 | <0.528 | <0.528 | <132 | <660 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <1000 | <500 | <0.250 | <0.750 | <0.750 | <250 | <1.000 | <1.000 | <1.000 | <250 | <1250 |
| 22... | <664 | <332 | <0.166 | <0.498 | <0.498 | <166 | <0.664 | <0.664 | <0.664 | <166 | <830 |
| 22... | <656 | <328 | <0.164 | <0.492 | <0.492 | <164 | <0.656 | <0.656 | <0.656 | <164 | <820 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <568 | <284 | <0.142 | <0.426 | <0.426 | <142 | <0.568 | <0.568 | <0.568 | <142 | <710 |
| 22... | <424 | <212 | <0.106 | <0.318 | <0.318 | <106 | <0.424 | <0.424 | <0.424 | <106 | <530 |
| 22... | <544 | <272 | <0.136 | <0.408 | <0.408 | <136 | <0.544 | <0.544 | <0.544 | <136 | <680 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <392 | <196 | <0.098 | <0.294 | 0.400 | <98 | <0.392 | <0.392 | <0.392 | <98 | <490 |
| 22... | <384 | <192 | <0.096 | <0.288 | <0.288 | <96 | <0.384 | <0.384 | <0.384 | <96 | <480 |
| 22... | <400 | <200 | <0.100 | <0.300 | <0.300 | <100 | <0.400 | <0.400 | <0.400 | <100 | <500 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <608 | <304 | <0.152 | <0.456 | <0.456 | <152 | <0.608 | <0.608 | <0.608 | <152 | <760 |
| 22... | <912 | <456 | <0.228 | <0.684 | <0.684 | <228 | <0.912 | <0.912 | <0.912 | <228 | <1140 |
| 22... | <528 | <264 | <0.132 | <0.396 | <0.396 | <132 | <0.528 | <0.528 | <0.528 | <132 | <660 |

**Table 5.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites showing the water-quality effects of Mississippi River water on Lake Pontchartrain, Louisiana, May 19 and 22, 1994—Continued

| DATE | 4-NITRO-PHENOL BOT.MAT (UG/KG) | N-NITRO-SODI-PHENY-LAMINE BOT.MAT (UG/KG) | N-NITRO-SODI-N-PROPYL-AMINE BOT.MAT (UG/KG) | PENTA-CHLORO-PHENOL BOT.MAT (UG/KG) | PHENAN-THRENE BOT.MAT (UG/KG) | PHENOL (C6H-5OH) BOT.MAT (UG/KG) | PYRENE BOT.MAT (UG/KG) | PYRI-DINE BOT.MAT (UG/KG) | 1,2,4-TRI-CHLORO-BENZENE BOT.MAT (UG/KG) | 2,4,5-TRI-CHLORO-PHENOL SOIL RECOVER (MG/KG) | 2,4,6-TRI-CHLORO-PHENOL BOT.MAT (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **EFFECTS SITE 1 (LAT 29 59 49N LONG 090 26 37W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <12818. | <3944 | <5916 | <14790 | <1972 | <3944 | <1972 | <19720 | <2958 | <5.916 | <5916 |
| 19... | <1404 | <432 | <648 | <1620 | <216 | <432 | <216 | <2160 | <324 | <0.648 | <648 |
| 19... | <1170 | <360 | <540 | <1350 | <180 | <360 | <180 | <1800 | <270 | <0.540 | <540 |
| **EFFECTS SITE 2 (LAT 30 03 44N LONG 090 23 13W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 19... | <2210 | <680 | <1020 | <2550 | <340 | <680 | <340 | <3400 | <510 | <1.020 | <1020 |
| 19... | <2990 | <920 | <1380 | <3450 | <460 | <920 | <460 | <4600 | <690 | <1.380 | <1380 |
| 19... | <2938 | <904 | <1356 | <3390 | <452 | <904 | <452 | <4520 | <678 | <1.356 | <1356 |
| **EFFECTS SITE 3 (LAT 30 03 40N LONG 090 22 02W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <884 | <272 | <408 | <1020 | <136 | <272 | <136 | <1360 | <204 | <0.408 | <408 |
| 22... | <819 | <252 | <378 | <945 | <126 | <252 | <126 | <1260 | <189 | <0.378 | <378 |
| 22... | <858 | <264 | <396 | <990 | <132 | <264 | <132 | <1320 | <198 | <0.396 | <396 |
| **EFFECTS SITE 4 (LAT 30 03 55N LONG 090 22 54W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <1625 | <500 | <750 | <1875 | <250 | <500 | <250 | <2500 | <375 | <0.750 | <750 |
| 22... | <1079 | <332 | <498 | <1245 | <166 | <332 | <166 | <1660 | <249 | <0.498 | <498 |
| 22... | <1066 | <328 | <492 | 1230 | <164 | <328 | <164 | <1640 | <246 | <0.492 | <492 |
| **EFFECTS SITE 5 (LAT 30 04 48N LONG 090 24 36W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <923 | <284 | <426 | <1065 | <142 | <284 | <142 | <1420 | <213 | <0.426 | <426 |
| 22... | <689 | <212 | <318 | <795 | <106 | <212 | <106 | <1060 | <159 | <0.318 | <318 |
| 22... | <884 | <272 | <408 | <1020 | <136 | <272 | <136 | <1360 | <204 | <0.408 | <408 |
| **EFFECTS SITE 6 (LAT 30 06 35N LONG 090 22 45W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <637 | <196 | <294 | <735 | <98 | <196 | <98 | <980 | <147 | <0.294 | <294 |
| 22... | <624 | <192 | <288 | <720 | <96 | <192 | <96 | <960 | <144 | <0.288 | <288 |
| 22... | <650 | <200 | <300 | <750 | <100 | <200 | <100 | <1000 | <150 | <0.300 | <300 |
| **EFFECTS SITE 7 (LAT 30 09 03N LONG 090 22 48W)** | | | | | | | | | | | |
| MAY 1994 | | | | | | | | | | | |
| 22... | <988 | <304 | <456 | <1140 | <152 | <304 | <152 | <1520 | <228 | <0.456 | <456 |
| 22... | <1482 | <456 | <684 | <1710 | <228 | <456 | <228 | <2280 | <342 | <0.684 | <684 |
| 22... | <858 | <264 | <396 | <990 | <132 | <264 | <132 | <1320 | <198 | <0.396 | <396 |

**Table 6.** Concentrations of chemical constituents in bottom material from selected sites in the southwestern area of Lake Pontchartrain, Louisiana, May 25, 1994

[MG/KG, milligrams per kilogram; UG/G, micrograms per gram; UG/KG, micrograms per kilogram; GM/KG, grams per kilogram; D = distance from initial point in miles]

| TIME | CALCIUM RECOV. FM BOTTOM MATERIAL (MG/KG AS CA) | MAGNESIUM, RECOV. FM BOTTOM MATERIAL (MG/KG) | SODIUM, RECOV. FM BOTTOM MATERIAL (MG/KG AS NA) | POTASSIUM, RECOV. FM BOTTOM MATERIAL (MG/KG) | NITROGEN, NITRATE TOT IN BOT MAT (MG/KG AS N) | NITROGEN, NITRITE TOT IN BOT MAT (MG/KG AS N) | PHOSPHORUS ORTHO, TOT IN BOT MAT (MG/KG AS P) | PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) |
|---|---|---|---|---|---|---|---|---|
| | | | **D-0.00 (LAT 30 03 59N LONG 090 23 16W)** | | | | | |
| 1155 | 6180 | 2810 | 429 | 1550 | -- | 29 | 28 | 581 |
| | | | **D-0.25 (LAT 30 04 12N LONG 090 23 06W)** | | | | | |
| 1200 | 2800 | 2640 | 415 | 1390 | <0.15 | 2.3 | 25 | 374 |
| | | | **D-0.50 (LAT 30 04 24N LONG 090 22 57W)** | | | | | |
| 1205 | 4170 | 4750 | 750 | 2470 | <0.17 | 53 | 73 | 405 |
| | | | **D-0.75 (LAT 30 04 37N LONG 090 22 47W)** | | | | | |
| 1206 | 9600 | 5300 | 945 | 2600 | -- | 82 | 109 | 455 |
| | | | **D-1.00 (LAT 30 04 49N LONG 090 22 37W)** | | | | | |
| 1210 | 2360 | 2410 | 199 | 962 | <0.14 | 17 | 31 | 438 |
| | | | **D-1.25 (LAT 30 04 57N LONG 090 22 31W)** | | | | | |
| 1215 | 6370 | 5670 | 816 | 2460 | -- | 28 | 61 | 538 |
| | | | **D-1.50 (LAT 30 05 07N LONG 090 22 23W)** | | | | | |
| 1220 | 5260 | 3500 | 372 | 1740 | <0.14 | 17 | 23 | 326 |
| | | | **D-1.75 (LAT 30 05 16N LONG 090 22 16W)** | | | | | |
| 1235 | 19200. | 3930 | 754 | 2140 | <0.16 | 23 | 36 | 310 |
| | | | **D-2.00 (LAT 30 05 24N LONG 090 22 09W)** | | | | | |
| 1240 | 4410 | 4400 | 918 | 2580 | -- | 30 | 41 | 445 |
| | | | **D-2.25 (LAT 30 05 37N LONG 090 22 00W)** | | | | | |
| 1245 | 7890 | 6870 | 1150 | 3550 | 13 | 57 | 110 | 650 |
| | | | **D-2.50 (LAT 30 05 46N LONG 090 21 52W)** | | | | | |
| 1247 | 65700 | 4890 | 1360 | 2910 | <0.18 | 65 | 71 | 289 |
| | | | **D-2.75 (LAT 30 05 57N LONG 090 21 44W)** | | | | | |
| 1252 | 4230 | 8390 | 1880 | 4710 | -- | 127 | 105 | 547 |
| | | | **D-3.00 (LAT 30 06 07N LONG 090 21 36W)** | | | | | |
| 1255 | 3300 | 7900 | 2270 | 4880 | -- | 134 | 128 | 492 |
| | | | **D-3.25 (LAT 30 06 20N LONG 090 21 26W)** | | | | | |
| 1300 | 7150 | 7400 | 1640 | 4090 | <0.23 | 110 | 114 | 489 |
| | | | **D-3.50 (LAT 30 06 29N LONG 090 21 18W)** | | | | | |
| 1302 | 31800 | 6880 | 1870 | 3470 | <0.22 | 101 | 106 | 627 |
| | | | **D-3.75 (LAT 30 06 39N LONG 090 21 10W)** | | | | | |
| 1305 | 29700 | 7630 | 1910 | 4780 | <0.23 | 110 | 114 | 614 |
| | | | **D-4.00 (LAT 30 06 50N LONG 090 21 02W)** | | | | | |
| 1310 | 32400 | 6650 | 1760 | 3500 | <0.22 | 111 | 120 | 548 |
| | | | **D-4.25 (LAT 30 07 00N LONG 090 20 54W)** | | | | | |
| 1313 | 8030 | 7340 | 1770 | 3890 | <0.22 | 106 | 136 | 478 |
| | | | **D-4.50 (LAT 30 07 10N LONG 090 20 46W)** | | | | | |
| 1315 | 3350 | 8330 | 2440 | 5650 | 60 | 98 | 108 | 622 |

**Table 6.** Concentrations of chemical constituents in bottom material from selected sites in the southwestern area of Lake Pontchartrain, Louisiana, May 25, 1994—Continued

| ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G) | ANTIMONY, TOTAL IN BOTTOM MATERIAL (UG/G) | ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) | BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) | BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G) | CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) | CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) | COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) | COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) | IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) |
|---|---|---|---|---|---|---|---|---|---|
| | | | **D-0.00 (LAT 30 03 59N LONG 090 23 16W)** | | | | | | |
| 8870 | <11 | 5.8 | 97 | <1 | <1 | 11 | 6 | 8.0 | 11300 |
| | | | **D-0.25 (LAT 30 04 12N LONG 090 23 06W)** | | | | | | |
| 7600 | <10 | 3.4 | 105 | <1 | <1 | 10 | 5 | 7.0 | 9260 |
| | | | **D-0.50 (LAT 30 04 24N LONG 090 22 57W)** | | | | | | |
| 14100 | <10 | 3.7 | 135 | <1 | <1 | 20 | 8 | 11 | 14800 |
| | | | **D-0.75 (LAT 30 04 37N LONG 090 22 47W)** | | | | | | |
| 15500 | <11 | 5.2 | 132 | <1 | <1 | 21 | 10 | 13 | 17700 |
| | | | **D-1.00 (LAT 30 04 49N LONG 090 22 37W)** | | | | | | |
| 5960 | <8 | 3.5 | 58 | <1 | <1 | 9.0 | 5 | 3.0 | 8380 |
| | | | **D-1.25 (LAT 30 04 57N LONG 090 22 31W)** | | | | | | |
| 13800 | <11 | 9.1 | 147 | <1 | <1 | 21 | 12 | 19 | 17900 |
| | | | **D-1.50 (LAT 30 05 07N LONG 090 22 23W)** | | | | | | |
| 9680 | <9 | 4.0 | 103 | <1 | <1 | 13 | 6 | 6.0 | 10300 |
| | | | **D-1.75 (LAT 30 05 16N LONG 090 22 16W)** | | | | | | |
| 11600 | <9 | 4.9 | 130 | <1 | <1 | 15 | 6 | 8.0 | 11500 |
| | | | **D-2.00 (LAT 30 05 24N LONG 090 22 09W)** | | | | | | |
| 15000 | <11 | 5.6 | 155 | <1 | <1 | 20 | 8 | 13 | 14800 |
| | | | **D-2.25 (LAT 30 05 37N LONG 090 22 00W)** | | | | | | |
| 21900 | <12 | 9.1 | 171 | <1 | <1 | 28 | 12 | 22 | 23000 |
| | | | **D-2.50 (LAT 30 05 46N LONG 090 21 52W)** | | | | | | |
| 17300 | <10 | 7.8 | 157 | <1 | <1 | 20 | 8 | 24 | 15800 |
| | | | **D-2.75 (LAT 30 05 57N LONG 090 21 44W)** | | | | | | |
| 27700 | <14 | 7.0 | 162 | <1 | <1 | 31 | 13 | 21 | 27200 |
| | | | **D-3.00 (LAT 30 06 07N LONG 090 21 36W)** | | | | | | |
| 29100 | <15 | 5.0 | 167 | <1 | <1 | 32 | 12 | 18 | 26400 |
| | | | **D-3.25 (LAT 30 06 20N LONG 090 21 26W)** | | | | | | |
| 25100 | <14 | 8.0 | 226 | <1 | <1 | 29 | 12 | 18 | 24800 |
| | | | **D-3.50 (LAT 30 06 29N LONG 090 21 18W)** | | | | | | |
| 20500 | <13 | 9.9 | 148 | <1 | <1 | 23 | 10 | 14 | 21200 |
| | | | **D-3.75 (LAT 30 06 39N LONG 090 21 10W)** | | | | | | |
| 28800 | <13 | 6.1 | 204 | <1 | <1 | 31 | 12 | 16 | 24800 |
| | | | **D-4.00 (LAT 30 06 50N LONG 090 21 02W)** | | | | | | |
| 21100 | <13 | 9.9 | 129 | <1 | <1 | 23 | 11 | 13 | 21200 |
| | | | **D-4.25 (LAT 30 07 00N LONG 090 20 54W)** | | | | | | |
| 23300 | <13 | 12 | 129 | <1 | <1 | 26 | 12 | 15 | 24200 |
| | | | **D-4.50 (LAT 30 07 10N LONG 090 20 46W)** | | | | | | |
| 33400 | <16 | 7.0 | 162 | <1 | <1 | 36 | 13 | 17 | 27400 |

**Table 6.** Concentrations of chemical constituents in bottom material from selected sites in the southwestern area of Lake Pontchartrain, Louisiana, May 25, 1994—Continued

| LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) | MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) | MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) | NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) | SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) | SILVER, RECOV. FM BOTTOM MATERIAL (UG/G AS AG) | THALLIUM. TOTAL BOT.MATERIAL (UG/G AS TL) | TIN RECOV. FROM BOT.MAL (UG/G AS SN) | VANADIUM, TOTAL IN BOTTOM MATERIAL (UG/G) | ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) | CARBON, ORGANIC TOT. IN BOTOM MAT. (GM/KG AS C) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | **D-0.00 (LAT 30 03 59N LONG 090 23 16W)** | | | | | | |
| 20 | 702 | <0.18 | 10 | <4.6 | <2 | <3.8 | 11 | 21 | 32 | 1820 |
| | | | | **D-0.25 (LAT 30 04 12N LONG 090 23 06W)** | | | | | | |
| 8.0 | 462 | <0.16 | 11 | <3.8 | <2 | <3.2 | 10 | 17 | 35 | 816 |
| | | | | **D-0.50 (LAT 30 04 24N LONG 090 22 57W)** | | | | | | |
| 14 | 499 | <0.15 | 17 | <4.1 | <2 | <3.4 | 13 | 32 | 54 | 1370 |
| | | | | **D-0.75 (LAT 30 04 37N LONG 090 22 47W)** | | | | | | |
| 18 | 655 | <0.18 | 21 | <4.3 | <2 | <3.6 | 15 | 36 | 64 | 1790 |
| | | | | **D-1.00 (LAT 30 04 49N LONG 090 22 37W)** | | | | | | |
| 6.0 | 305 | <0.13 | 11 | <3.4 | <1 | <2.8 | 9 | 15 | 28 | 533 |
| | | | | **D-1.25 (LAT 30 04 57N LONG 090 22 31W)** | | | | | | |
| 22 | 686 | <0.17 | 26 | <4.6 | <2 | <3.8 | 16 | 37 | 64 | 1030 |
| | | | | **D-1.50 (LAT 30 05 07N LONG 090 22 23W)** | | | | | | |
| 10 | 365 | <0.14 | 12 | <3.6 | <1 | <3.0 | 12 | 23 | 35 | 503 |
| | | | | **D-1.75 (LAT 30 05 16N LONG 090 22 16W)** | | | | | | |
| 10 | 416 | <0.14 | 12 | <3.8 | <2 | <3.2 | 12 | 28 | 40 | 467 |
| | | | | **D-2.00 (LAT 30 05 24N LONG 090 22 09W)** | | | | | | |
| 15 | 530 | <0.17 | 17 | <4.3 | <2 | <3.6 | 13 | 34 | 53 | 1130 |
| | | | | **D-2.25 (LAT 30 05 37N LONG 090 22 00W)** | | | | | | |
| 22 | 807 | <0.18 | 26 | <4.8 | <2 | <4.0 | 18 | 50 | 81 | 1670 |
| | | | | **D-2.50 (LAT 30 05 46N LONG 090 21 52W)** | | | | | | |
| 13 | 1200 | <0.15 | 16 | <4.1 | <2 | <3.4 | 15 | 42 | 52 | 1420 |
| | | | | **D-2.75 (LAT 30 05 57N LONG 090 21 44W)** | | | | | | |
| 24 | 721 | <0.22 | 30 | <5.5 | <2 | <4.6 | 23 | 61 | 90 | 2110 |
| | | | | **D-3.00 (LAT 30 06 07N LONG 090 21 36W)** | | | | | | |
| 21 | 845 | <0.25 | 27 | <6.2 | <3 | <5.2 | 21 | 63 | 87 | 2030 |
| | | | | **D-3.25 (LAT 30 06 20N LONG 090 21 26W)** | | | | | | |
| 21 | 864 | <0.21 | 27 | <5.3 | <2 | <4.4 | 19 | 54 | 85 | 1580 |
| | | | | **D-3.50 (LAT 30 06 29N LONG 090 21 18W)** | | | | | | |
| 19 | 858 | <0.20 | 22 | <5.3 | <2 | <4.4 | 19 | 45 | 69 | 1660 |
| | | | | **D-3.75 (LAT 30 06 39N LONG 090 21 10W)** | | | | | | |
| 22 | 703 | <0.21 | 26 | <5.3 | <2 | <4.4 | 21 | 63 | 81 | 1890 |
| | | | | **D-4.00 (LAT 30 06 50N LONG 090 21 02W)** | | | | | | |
| 17 | 654 | <0.18 | 21 | <5.3 | <2 | <4.4 | 17 | 49 | 65 | 1110 |
| | | | | **D-4.25 (LAT 30 07 00N LONG 090 20 54W)** | | | | | | |
| 20 | 753 | <0.20 | 24 | <5.3 | <2 | <4.4 | 19 | 50 | 75 | 739 |
| | | | | **D-4.50 (LAT 30 07 10N LONG 090 20 46W)** | | | | | | |
| 24 | 947 | <0.27 | 28 | <6.5 | <3 | <5.4 | 23 | 73 | 87 | 1710 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994

[M, meter; US/CM, microsiements per centimeter at 25 degrees Celsius; MV, millivolts; PPT, parts per thousand; DEG C, degrees Celsius; MG/L, milligrams per liter; UG/L, micrograms per liter]

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **BONNET CARRE (SITE 1A1 ) (LAT 30 03 59N LONG 090 22 55W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 13... | 1035 | 0.30 | 880 | 7.2 | 270 | 0.0 | 27.0 | 5.8 |
| 13... | 1036 | 1.6 | 880 | 7.2 | 269 | 0.0 | 27.0 | 6.0 |
| 13... | 1037 | 3.3 | 940 | 7.2 | 269 | 0.0. | 26.5 | 5.9 |
| 13... | 1045 | 0.30 | 840 | 7.2 | 274 | 0.0 | 27.0 | 6.0 |
| 13... | 1046 | 1.6 | 880 | 7.2 | 274 | 0.0 | 27.0 | 5.9 |
| 13... | 1047 | 3.3 | 1100 | 7.2 | 274 | 0.0 | 27.0 | 5.8 |
| **BONNET CARRE (SITE 1A2 ) (LAT 30 05 01N LONG 090 21 52W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 13... | 1100 | 0.30 | 1770 | 7.4 | 234 | 0.4 | 27.5 | 6.9 |
| 13... | 1101 | 3.9 | 1790 | 7.4 | 229 | 0.4 | 27.5 | 6.8 |
| 13... | 1102 | 7.9 | 1890 | 7.4 | 225 | 0.5 | 27.0 | 6.9 |
| 13... | 1105 | 0.30 | 1770 | 7.4 | 243 | 0.4 | 27.5 | 6.7 |
| 13... | 1106 | 3.9 | 1800 | 7.4 | 242 | 0.4 | 27.0 | 6.6 |
| 13... | 1107 | 7.5 | 1910 | 7.4 | 241 | 0.5 | 27.0 | 6.6 |
| **BONNET CARRE (SITE 1A3 ) (LAT 30 06 01N LONG 090 20 58W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 13... | 1110 | 0.30 | 2700 | 7.4 | 249 | 1.0 | 28.0 | 6.8 |
| 13... | 1111 | 5.2 | 3050 | 7.4 | 250 | 1.2 | 27.5 | 6.8 |
| 13... | 1112 | 10.8 | 3340 | 7.3 | 249 | 1.3 | 27.5 | 6.7 |
| 13... | 1115 | 0.30 | 2700 | 7.4 | 252 | 1.0 | 28.0 | 6.7 |
| 13... | 1116 | 5.2 | 3140 | 7.4 | 254 | 1.2 | 27.5 | 6.8 |
| 13... | 1117 | 10.8 | 3370 | 7.4 | 255 | 1.3 | 27.5 | 6.6 |
| **BONNET CARRE (SITE 1B2 ) (LAT 30 04 32N LONG 090 21 28W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 13... | 1130 | 0.30 | 1500 | 7.4 | 222 | 0.3 | 27.5 | 6.5 |
| 13... | 1131 | 3.9 | 1630 | 7.4 | 218 | 0.3 | 27.0 | 6.6 |
| 13... | 1132 | 7.5 | 1870 | 7.4 | 213 | 0.5 | 27.0 | 6.5 |
| 13... | 1135 | 0.30 | 1520 | 7.4 | 234 | 0.3 | 27.5 | 6.4 |
| 13... | 1136 | 3.9 | 1660 | 7.4 | 232 | 0.4 | 27.0 | 6.4 |
| 13... | 1137 | 7.5 | 1910 | 7.3 | 230 | 0.5 | 27.0 | 6.3 |
| **BONNET CARRE (SITE 1B3 ) (LAT 30 05 07N LONG 090 20 06W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 13... | 1145 | 0.30 | 2510 | 7.5 | 219 | 0.8 | 28.0 | 7.2 |
| 13... | 1146 | 5.2 | 3120 | 7.4 | 218 | 1.2 | 27.5 | 7.1 |
| 13... | 1147 | 10.8 | 3460 | 7.4 | 215 | 1.4 | 27.5 | 7.2 |
| 13... | 1150 | 0.30 | 2520 | 7.5 | 231 | 0.8 | 28.5 | 7.0 |
| 13... | 1151 | 5.2 | 3220 | 7.4 | 234 | 1.2 | 27.5 | 6.8 |
| 13... | 1152 | 10.8 | 3490 | 7.4 | 235 | 1.4 | 27.5 | 6.4 |
| **BONNET CARRE (SITE 1C2 ) (LAT 30 05 20N LONG 090 22 44W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 13... | 1200 | 0.30 | 1660 | 7.5 | 218 | 0.4 | 28.0 | 7.0 |
| 13... | 1201 | 3.6 | 1700 | 7.5 | 214 | 0.4 | 27.5 | 7.0 |
| 13... | 1202 | 7.2 | 1720 | 7.5 | 210 | 0.4 | 27.0 | 7.0 |
| 13... | 1205 | 0.30 | 1660 | 7.5 | 228 | 0.4 | 28.0 | 6.9 |
| 13... | 1206 | 3.6 | 1690 | 7.5 | 227 | 0.4 | 27.5 | 6.8 |
| 13... | 1207 | 7.2 | 1730 | 7.5 | 226 | 0.4 | 27.0 | 6.6 |
| **BONNET CARRE (SITE 1C3 ) (LAT 30 06 38N LONG 090 22 26W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 13... | 1210 | 0.30 | 1990 | 7.4 | 242 | 0.5 | 28.5 | 6.9 |
| 13... | 1211 | 4.9 | 2270 | 7.4 | 243 | 0.7 | 27.5 | 6.9 |
| 13... | 1212 | 9.8 | 2640 | 7.4 | 243 | 0.9 | 27.5 | 6.6 |
| 13... | 1215 | 0.30 | 2000 | 7.4 | 247 | 0.6 | 28.5 | 6.9 |
| 13... | 1216 | 4.9 | 2450 | 7.4 | 248 | 0.8 | 27.5 | 6.8 |
| 13... | 1217 | 9.8 | 2670 | 7.4 | 249 | 0.9 | 27.5 | 6.5 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **PASS MANCHAC (SITE 2A1) (LAT 30 17 36N LONG 090 18 10W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1110 | 0.30 | 199 | 6.9 | 216 | 0.0 | 29.5 | 6.7 |
| 14... | 1111 | 7.2 | 198 | 7.0 | 210 | 0.0 | 29.0 | 6.5 |
| 14... | 1112 | 14.7 | 198 | 7.0 | 203 | 0.0 | 29.0 | 6.5 |
| 14... | 1115 | 0.30 | 198 | 6.8 | 229 | 0.0 | 29.5 | 6.6 |
| 14... | 1116 | 7.2 | 198 | 6.8 | 227 | 0.0 | 29.0 | 6.5 |
| 14... | 1117 | 14.7 | 198 | 6.8 | 224 | 0.0 | 29.0 | 6.4 |
| **PASS MANCHAC (SITE 2A2) (LAT 30 16 40N LONG 090 17 05W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1135 | 0.30 | 928 | 7.0 | 215 | 0.0 | 28.5 | 7.0 |
| 14... | 1136 | 3.9 | 920 | 7.0 | 217 | 0.0 | 28.5 | 7.0 |
| 14... | 1137 | 7.5 | 863 | 6.9 | 220 | 0.0 | 28.0 | 6.8 |
| 14... | 1140 | 0.30 | 935 | 7.0 | 218 | 0.0 | 29.0 | 7.0 |
| 14... | 1141 | 3.9 | 925 | 7.0 | 219 | 0.0 | 28.5 | 6.9 |
| 14... | 1142 | 7.5 | 836 | 7.0 | 220 | 0.0 | 28.0 | 6.6 |
| **PASS MANCHAC (SITE 2A3) (LAT 30 15 45N LONG 090 16 09W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1145 | 0.30 | 2560 | 7.6 | 189 | 0.9 | 29.0 | 7.7 |
| 14... | 1146 | 5.9 | 2470 | 7.5 | 191 | 0.9 | 28.5 | 7.6 |
| 14... | 1147 | 12.1 | 2480 | 7.3 | 197 | 0.8 | 28.0 | 6.8 |
| 14... | 1150 | 0.30 | 2550 | 7.7 | 196 | 0.9 | 29.0 | 7.6 |
| 14... | 1151 | 5.9 | 2430 | 7.6 | 200 | 0.8 | 28.0 | 7.5 |
| 14... | 1152 | 11.8 | 2470 | 7.5 | 207 | 0.8 | 28.0 | 6.4 |
| **PASS MANCHAC (SITE 2B2) (LAT 30 16 21N LONG 090 17 44W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1210 | 0.30 | 352 | 7.1 | 205 | 0.0 | 29.5 | 6.8 |
| 14... | 1211 | 4.9 | 236 | 7.2 | 200 | 0.0 | 28.5 | 6.4 |
| 14... | 1212 | 9.8 | 926 | 7.3 | 176 | 0.0 | 28.0 | 6.2 |
| 14... | 1215 | 0.30 | 343 | 7.0 | 221 | 0.0 | 29.5 | 6.8 |
| 14... | 1216 | 4.9 | 270 | 7.0 | 221 | 0.0 | 28.5 | 6.1 |
| 14... | 1217 | 9.8 | 898 | 7.0 | 215 | 0.0 | 28.0 | 6.0 |
| **PASS MANCHAC (SITE 2B3) (LAT 30 15 06N LONG 090 17 22W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1220 | 0.30 | 2480 | 7.7 | 187 | 0.8 | 29.0 | 7.8 |
| 14... | 1221 | 5.9 | 2280 | 7.5 | 196 | 0.7 | 28.0 | 7.7 |
| 14... | 1222 | 12.1 | 2260 | 7.2 | 208 | 0.7 | 28.0 | 6.4 |
| 14... | 1225 | 0.30 | 2380 | 7.7 | 199 | 0.8 | 29.0 | 7.6 |
| 14... | 1226 | 5.9 | 2200 | 7.5 | 203 | 0.7 | 28.0 | 7.4 |
| 14... | 1227 | 11.8 | 2200 | 7.2 | 212 | 0.7 | 27.5 | 6.3 |
| **PASS MANCHAC (SITE 2C2) (LAT 30 17 17N LONG 090 17 46W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1245 | 0.30 | 202 | 7.1 | 233 | 0.0 | 30.5 | 7.1 |
| 14... | 1246 | 3.3 | 202 | 7.1 | 231 | 0.0 | 30.0 | 6.8 |
| 14... | 1247 | 6.2 | 202 | 7.2 | 227 | 0.0 | 29.0 | 6.5 |
| 14... | 1250 | 0.30 | 202 | 6.9 | 246 | 0.0 | 30.5 | 6.8 |
| 14... | 1251 | 3.3 | 201 | 6.9 | 247 | 0.0 | 29.5 | 6.6 |
| 14... | 1252 | 6.2 | 202 | 7.0 | 246 | 0.0 | 29.0 | 6.3 |
| **PASS MANCHAC (SITE 2C3) (LAT 30 16 57N LONG 090 15 13W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1255 | 0.30 | 1250 | 7.1 | 214 | 0.1 | 29.5 | 7.3 |
| 14... | 1256 | 6.6 | 1060 | 7.0 | 219 | 0.0 | 28.0 | 6.6 |
| 14... | 1257 | 12.8 | 2280 | 6.9 | 222 | 0.7 | 27.5 | 5.8 |
| 14... | 1300 | 0.30 | 1180 | 7.1 | 222 | 0.1 | 29.5 | 7.2 |
| 14... | 1301 | 6.2 | 920 | 7.1 | 227 | 0.0 | 28.0 | 6.6 |
| 14... | 1302 | 12.5 | 2250 | 7.0 | 230 | 0.7 | 27.5 | 5.4 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **TANGIPAHOA RIVER (SITE 3A1)(LAT 30 19 59N LONG 090 16 02W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1345 | 0.30 | 277 | 6.9 | 229 | 0.0 | 30.5 | 7.3 |
| 14... | 1346 | 2.0 | 277 | 6.8 | 231 | 0.0 | 30.0 | 7.1 |
| 14... | 1347 | 4.3 | 100 | 6.8 | 250 | 0.0 | 26.5 | 5.0 |
| 14... | 1350 | 0.30 | 279 | 6.9 | 235 | 0.0 | 30.5 | 7.2 |
| 14... | 1351 | 2.0 | 283 | 6.8 | 238 | 0.0 | 30.5 | 7.2 |
| 14... | 1352 | 4.3 | 87 | 6.7 | 260 | 0.0 | 26.5 | 4.7 |
| **TANGIPAHOA RIVER (SITE 3A2) (LAT 30 19 04N LONG 090 14 48W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1400 | 0.30 | 886 | 7.1 | 219 | 0.0 | 30.5 | 7.6 |
| 14... | 1401 | 4.9 | 628 | 6.9 | 229 | 0.0 | 28.0 | 6.7 |
| 14... | 1402 | 9.8 | 861 | 6.9 | 227 | 0.0 | 27.5 | 6.5 |
| 14... | 1405 | 0.30 | 861 | 7.1 | 225 | 0.0 | 30.5 | 7.6 |
| 14... | 1406 | 4.9 | 622 | 7.0 | 237 | 0.0 | 28.0 | 6.6 |
| 14... | 1407 | 9.8 | 850 | 7.0 | 234 | 0.0 | 27.5 | 6.3 |
| **TANGIPAHOA RIVER (SITE 3A3) (LAT 30 18 13N LONG 090 13 43W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1420 | 0.30 | 2180 | 7.8 | 192 | 0.7 | 30.0 | 8.2 |
| 14... | 1421 | 6.6 | 1850 | 7.4 | 204 | 0.4 | 28.5 | 7.8 |
| 14... | 1422 | 13.1 | 2050 | 7.3 | 214 | 0.6 | 28.0 | 6.0 |
| 14... | 1425 | 0.30 | 2170 | 7.9 | 199 | 0.7 | 30.5 | 8.2 |
| 14... | 1426 | 6.6 | 1780 | 7.5 | 216 | 0.4 | 28.5 | 7.6 |
| 14... | 1427 | 12.8 | 2010 | 7.5 | 217 | 0.6 | 28.0 | 6.5 |
| **TANGIPAHOA RIVER (SITE 3B2) (LAT 30 18 40N LONG 090 15 41W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1435 | 0.30 | 253 | 7.5 | 203 | 0.0 | 31.0 | 8.0 |
| 14... | 1436 | 4.9 | 220 | 7.3 | 216 | 0.0 | 28.5 | 6.7 |
| 14... | 1437 | 9.8 | 318 | 7.5 | 206 | 0.0 | 27.5 | 6.2 |
| 14... | 1440 | 0.30 | 255 | 7.3 | 222 | 0.0 | 31.0 | 7.8 |
| 14... | 1441 | 4.9 | 219 | 7.2 | 237 | 0.0 | 28.5 | 6.6 |
| 14... | 1442 | 9.8 | 319 | 7.3 | 231 | 0.0 | 27.5 | 6.0 |
| **TANGIPAHOA RIVER (SITE 3B3) (LAT 30 17 23N LONG 090 15 22W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1445 | 0.30 | 860 | 7.1 | 240 | 0.0 | 30.0 | 7.4 |
| 14... | 1446 | 5.9 | 580 | 7.1 | 247 | 0.0 | 28.5 | 6.9 |
| 14... | 1447 | 11.5 | 1680 | 7.0 | 253 | 0.4 | 27.5 | 4.9 |
| 14... | 1450 | 0.30 | 852 | 7.0 | 244 | 0.0 | 30.0 | 7.4 |
| 14... | 1451 | 5.9 | 412 | 7.1 | 250 | 0.0 | 28.0 | 7.0 |
| 14... | 1452 | 11.5 | 1590 | 7.0 | 255 | 0.3 | 27.5 | 4.8 |
| **TANGIPAHOA RIVER (SITE 3C2) (LAT 30 19 37N LONG 090 14 29W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1505 | 0.30 | 1080 | 7.2 | 206 | 0.0 | 30.5 | 7.8 |
| 14... | 1506 | 5.9 | 776 | 7.0 | 220 | 0.0 | 28.0 | 6.6 |
| 14... | 1507 | 11.5 | 785 | 7.0 | 215 | 0.0 | 27.5 | 6.3 |
| 14... | 1510 | 0.30 | 1060 | 7.2 | 216 | 0.0 | 30.5 | 7.8 |
| 14... | 1511 | 5.9 | 725 | 7.0 | 235 | 0.0 | 27.5 | 6.5 |
| 14... | 1512 | 11.5 | 767 | 7.0 | 233 | 0.0 | 27.5 | 6.1 |
| **TANGIPAHOA RIVER (SITE 3C3)(LAT 30 19 25N LONG 090 13 00W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 14... | 1520 | 0.30 | 1860 | 8.0 | 200 | 0.5 | 30.5 | 8.4 |
| 14... | 1521 | 6.6 | 1450 | 7.2 | 228 | 0.2 | 28.0 | 7.2 |
| 14... | 1522 | 12.8 | 1730 | 7.2 | 231 | 0.4 | 27.5 | 5.4 |
| 14... | 1525 | 0.30 | 1830 | 8.0 | 204 | 0.5 | 30.5 | 8.4 |
| 14... | 1526 | 6.6 | 1460 | 7.4 | 231 | 0.2 | 28.5 | 7.2 |
| 14... | 1527 | 11.5 | 1700 | 7.2 | 233 | 0.4 | 27.5 | 5.3 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **IHNC (SITE 4A1) (LAT 30 02 34N LONG 090 02 16W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1050 | 0.30 | 5300 | 7.8 | 208 | 2.5 | 28.5 | 8.3 |
| 15... | 1051 | 8.5 | 5650 | 7.6 | 218 | 2.7 | 28.0 | 7.4 |
| 15... | 1052 | 17.0 | 8700 | 7.3 | 226 | 4.5 | 28.0 | 3.7 |
| 15... | 1055 | 0.30 | 5150 | 7.8 | 210 | 2.4 | 28.5 | 8.3 |
| 15... | 1056 | 7.9 | 5380 | 7.6 | 216 | 2.5 | 28.0 | 7.7 |
| 15... | 1057 | 15.7 | 7300 | 7.3 | 236 | 3.7 | 28.0 | 4.1 |
| **IHNC (SITE 4A2) (LAT 30 03 41N LONG 090 03 16W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1105 | 0.30 | 5130 | 7.9 | 202 | 2.4 | 29.0 | 8.0 |
| 15... | 1106 | 7.9 | 5140 | 7.8 | 201 | 2.4 | 28.5 | 7.8 |
| 15... | 1107 | 15.7 | 12000 | 7.2 | 227 | 6.5 | 28.0 | 3.5 |
| 15... | 1110 | 0.30 | 5130 | 8.0 | 205 | 2.4 | 29.0 | 7.9 |
| 15... | 1111 | 7.9 | 5150 | 7.8 | 206 | 2.4 | 28.5 | 7.6 |
| 15... | 1112 | 15.7 | 12000 | 7.2 | 232 | 6.6 | 28.0 | 3.3 |
| **IHNC (SITE 4A3) (LAT 30 04 41N LONG 090 04 10W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1120 | 0.30 | 5230 | 7.9 | 218 | 2.4 | 29.5 | 7.8 |
| 15... | 1121 | 7.9 | 5280 | 7.8 | 220 | 2.5 | 29.0 | 7.6 |
| 15... | 1122 | 15.7 | 7570 | 7.2 | 244 | 3.8 | 27.5 | 4.0 |
| 15... | 1125 | 0.30 | 5230 | 7.9 | 221 | 2.4 | 29.5 | 7.7 |
| 15... | 1126 | 7.9 | 5260 | 7.8 | 223 | 2.5 | 28.9 | 7.6 |
| 15... | 1127 | 15.4 | 7530 | 7.2 | 247 | 3.8 | 27.6 | 3.9 |
| **IHNC (SITE 4B2) (LAT 30 03 57N LONG 090 02 36W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1140 | 0.30 | 5250 | 7.9 | 183 | 2.4 | 29.0 | 8.0 |
| 15... | 1141 | 8.2 | 5320 | 7.8 | 183 | 2.5 | 28.5 | 7.8 |
| 15... | 1142 | 16.0 | 8950 | 7.3 | 200 | 4.5 | 28.0 | 4.7 |
| 15... | 1145 | 0.30 | 5250 | 7.9 | 191 | 2.4 | 29.0 | 8.0 |
| 15... | 1146 | 7.9 | 5320 | 7.8 | 192 | 2.5 | 28.5 | 7.7 |
| 15... | 1147 | 15.7 | 9300 | 7.3 | 213 | 5.3 | 28.0 | 4.4 |
| **IHNC (SITE 4B3) (LAT 30 05 10N LONG 090 02 57W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1155 | 0.30 | 5540 | 7.9 | 189 | 2.6 | 29.5 | 7.8 |
| 15... | 1156 | 8.2 | 5610 | 7.6 | 189 | 2.7 | 28.5 | 7.6 |
| 15... | 1157 | 16.1 | 10000 | 7.1 | 215 | 5.3 | 28.0 | 2.9 |
| 15... | 1200 | 0.30 | 5550 | 8.0 | 198 | 2.6 | 29.5 | 7.9 |
| 15... | 1201 | 7.9 | 5630 | 7.9 | 198 | 2.7 | 28.5 | 7.7 |
| 15... | 1202 | 15.7 | 10000 | 7.1 | 221 | 5.3 | 28.0 | 3.0 |
| **IHNC (SITE 4C2) (LAT 30 03 08N LONG 090 03 47W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1215 | 0.30 | 5110 | 8.1 | 176 | 2.4 | 29.0 | 8.2 |
| 15... | 1216 | 7.9 | 5100 | 8.0 | 168 | 2.4 | 28.5 | 8.1 |
| 15... | 1217 | 15.4 | 11000 | 7.1 | 192 | 6.0 | 27.5 | 2.3 |
| 15... | 1220 | 0.30 | 5100 | 8.1 | 186 | 2.4 | 29.0 | 8.1 |
| 15... | 1221 | 7.9 | 5070 | 8.0 | 182 | 2.3 | 28.5 | 8.0 |
| 15... | 1222 | 15.4 | 11400 | 7.1 | 208 | 6.2 | 27.5 | 2.5 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **17TH ST CANAL (SITE 5A1) (LAT 30 01 28N LONG 090 07 18W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1315 | 0.30 | 4150 | 7.3 | 215 | 1.8 | 28.5 | 6.0 |
| 15... | 1316 | 3.3 | 5130 | 7.3 | 214 | 2.4 | 28.5 | 7.0 |
| 15... | 1317 | 6.6 | 5570 | 7.2 | 222 | 2.6 | 28.0 | 5.2 |
| 15... | 1320 | 0.30 | 4470 | 7.3 | 215 | 2.0 | 28.5 | 6.8 |
| 15... | 1321 | 3.9 | 5310 | 7.2 | 216 | 2.5 | 28.5 | 6.6 |
| 15... | 1322 | 7.5 | 5580 | 7.2 | 223 | 2.6 | 28.0 | 5.2 |
| **17TH ST CANAL (SITE 5A2))(LAT 30 02 39N LONG 090 08 15W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1355 | 0.30 | 4710 | 8.2 | 166 | 2.1 | 29.0 | 8.6 |
| 15... | 1356 | 6.6 | 4700 | 8.0 | 167 | 2.1 | 28.5 | 8.2 |
| 15... | 1357 | 13.4 | 5630 | 7.1 | 191 | 2.7 | 28.0 | 3.9 |
| 15... | 1400 | 0.30 | 4710 | 8.2 | 173 | 2.1 | 29.0 | 8.6 |
| 15... | 1401 | 6.6 | 4690 | 8.0 | 175 | 2.1 | 28.5 | 8.2 |
| 15... | 1402 | 13.4 | 5630 | 7.1 | 201 | 2.7 | 27.5 | 3.8 |
| **17TH ST CANAL (SITE 5A3) (LAT 30 03 41N LONG 090 08 52W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1410 | 0.30 | 4640 | 8.1 | 190 | 2.1 | 29.5 | 8.2 |
| 15... | 1411 | 6.9 | 4670 | 7.9 | 193 | 2.1 | 28.5 | 8.0 |
| 15... | 1412 | 13.8 | 5370 | 7.2 | 227 | 2.5 | 28.0 | 5.2 |
| 15... | 1420 | 0.30 | 4620 | 8.2 | 193 | 2.1 | 29.5 | 8.2 |
| 15... | 1421 | 6.9 | 4680 | 8.0 | 196 | 2.1 | 28.5 | 8.0 |
| 15... | 1422 | 13.4 | 5370 | 7.2 | 220 | 2.5 | 28.0 | 5.3 |
| **17TH ST CANAL (SITE 5B2) (LAT 30 02 52N LONG 090 07 26W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1435 | 0.30 | 4760 | 8.2 | 194 | 2.2 | 29.0 | 8.4 |
| 15... | 1436 | 7.2 | 4730 | 8.1 | 195 | 2.1 | 28.5 | 8.3 |
| 15... | 1437 | 14.4 | 5730 | 7.0 | 221 | 2.7 | 27.5 | 4.2 |
| 15... | 1440 | 0.30 | 4750 | 8.2 | 196 | 2.2 | 29.0 | 8.6 |
| 15... | 1441 | 8.2 | 4740 | 8.1 | 199 | 2.1 | 28.5 | 8.2 |
| 15... | 1442 | 14.1 | 5730 | 7.0 | 229 | 2.7 | 27.5 | 4.0 |
| **17TH ST CANAL (SITE 5B3) (LAT 30 04 09N LONG 090 07 42W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1455 | 0.30 | 4850 | 8.0 | 220 | 2.2 | 29.5 | 8.0 |
| 15... | 1456 | 7.2 | 4850 | 7.9 | 221 | 2.2 | 29.0 | 8.0 |
| 15... | 1457 | 14.7 | 5340 | 7.0 | 245 | 2.5 | 28.0 | 6.2 |
| **17TH ST CANAL (SITE 5C2) (LAT 30 02 11N LONG 090 08 38W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1510 | 0.30 | 4770 | 8.2 | 224 | 2.2 | 28.5 | 8.5 |
| 15... | 1511 | 6.6 | 4730 | 8.0 | 231 | 2.1 | 28.5 | 8.3 |
| 15... | 1512 | 13.1 | 5560 | 7.0 | 257 | 2.6 | 27.5 | 4.6 |
| 15... | 1515 | 0.30 | 4780 | 8.2 | 223 | 2.2 | 28.5 | 8.4 |
| 15... | 1516 | 6.6 | 4760 | 8.1 | 225 | 2.2 | 28.5 | 8.4 |
| 15... | 1517 | 13.1 | 5560 | 7.0 | 253 | 2.6 | 27.5 | 4.4 |
| **17TH ST CANAL (SITE 5C3) (LAT 30 02 54N LONG 090 09 50W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 15... | 1520 | 0.30 | 4640 | 8.3 | 218 | 2.1 | 29.0 | 8.8 |
| 15... | 1521 | 7.2 | 5380 | 8.1 | 249 | 2.5 | 28.5 | 8.0 |
| 15... | 1522 | 14.1 | 5460 | 7.0 | 251 | 2.6 | 27.5 | 5.0 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **TCHEFUNCTA RIVER (SITE 6A1)(LAT 30 22 24N LONG 090 09 49W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1200 | 0.30 | 613 | 7.0 | 219 | 0.0 | 30.5 | 7.3 |
| 16... | 1201 | 2.0 | 616 | 7.0 | 229 | 0.0 | 29.5 | 6.2 |
| 16... | 1202 | 3.9 | 452 | 7.0 | 229 | 0.0 | 29.0 | 5.6 |
| 16... | 1205 | 0.30 | 531 | 6.9 | 220 | 0.0 | 31.0 | 7.4 |
| 16... | 1206 | 2.0 | 730 | 6.8 | 229 | 0.0 | 29.5 | 6.2 |
| 16... | 1207 | 3.9 | 550 | 6.0 | 232 | 0.0 | 29.0 | 5.5 |
| **TCHEFUNCTA RIVER (SITE 6A2)(LAT 30 21 02N LONG 090 09 55W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1215 | 0.30 | 1700 | 7.2 | 245 | 0.4 | 31.0 | 7.8 |
| 16... | 1216 | 5.9 | 1850 | 7.1 | 263 | 0.5 | 29.0 | 7.7 |
| 16... | 1217 | 12.1 | 1980 | 7.0 | 274 | 0.5 | 29.0 | 7.0 |
| 16... | 1220 | 0.30 | 1700 | 7.2 | 235 | 0.4 | 31.0 | 7.8 |
| 16... | 1221 | 5.9 | 1840 | 7.0 | 255 | 0.5 | 29.0 | 7.3 |
| 16... | 1222 | 12.1 | 1850 | 7.0 | 260 | 0.5 | 29.0 | 7.0 |
| **TCHEFUNCTA RIVER (SITE 6A3)(LAT 30 19 38N LONG 090 09 58W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1230 | 0.30 | 1960 | 7.4 | 219 | 0.5 | 31.0 | 7.8 |
| 16... | 1231 | 7.9 | 1770 | 7.2 | 230 | 0.4 | 29.0 | 7.8 |
| 16... | 1232 | 15.4 | 1860 | 7.0 | 242 | 0.5 | 28.5 | 6.7 |
| 16... | 1235 | 0.30 | 1960 | 7.4 | 219 | 0.5 | 31.0 | 7.8 |
| 16... | 1236 | 7.9 | 1770 | 7.2 | 229 | 0.4 | 29.0 | 7.5 |
| 16... | 1237 | 15.4 | 1870 | 7.0 | 235 | 0.5 | 28.5 | 6.8 |
| **TCHEFUNCTA RIVER (SITE 6B2)(LAT 30 21 13N LONG 090 10 40W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1250 | 0.30 | 1550 | 7.5 | 199 | 0.3 | 30.5 | 8.2 |
| 16... | 1251 | 6.2 | 1460 | 7.3 | 210 | 0.2 | 29.0 | 7.9 |
| 16... | 1252 | 12.5 | 1810 | 7.0 | 221 | 0.4 | 29.0 | 6.9 |
| 16... | 1255 | 0.30 | 1560 | 7.5 | 202 | 0.3 | 31.0 | 7.8 |
| 16... | 1256 | 6.2 | 1400 | 7.4 | 210 | 0.2 | 29.0 | 7.9 |
| 16... | 1257 | 12.5 | 1760 | 7.0 | 224 | 0.4 | 29.0 | 6.9 |
| **TCHEFUNCTA RIVER (SITE 6B3)(LAT 30 20 10N LONG 090 11 42W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1305 | 0.30 | 1330 | 8.0 | 204 | 0.2 | 31.5 | 8.4 |
| 16... | 1306 | 6.6 | 1060 | 7.5 | 226 | 0.0 | 29.0 | 7.8 |
| 16... | 1307 | 13.4 | 1030 | 7.0 | 247 | 0.0 | 28.5 | 6.4 |
| 16... | 1310 | 0.30 | 1350 | 8.1 | 199 | 0.2 | 31.5 | 8.4 |
| 16... | 1311 | 6.6 | 1080 | 7.5 | 223 | 0.0 | 29.0 | 7.7 |
| 16... | 1312 | 13.4 | 1050 | 7.0 | 240 | 0.0 | 28.5 | 6.6 |
| **TCHEFUNCTA RIVER (SITE 6C2)(LAT 30 21 02N LONG 090 09 14W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1325 | 0.30 | 1780 | 7.6 | 208 | 0.4 | 31.0 | 8.0 |
| 16... | 1326 | 6.2 | 1840 | 7.3 | 227 | 0.5 | 29.0 | 7.5 |
| 16... | 1327 | 12.5 | 2100 | 7.0 | 237 | 0.6 | 29.0 | 6.9 |
| 16... | 1330 | 0.30 | 1770 | 7.6 | 204 | 0.4 | 31.0 | 8.0 |
| 16... | 1331 | 6.2 | 1830 | 7.4 | 221 | 0.4 | 29.5 | 7.6 |
| 16... | 1332 | 12.5 | 2100 | 7.0 | 231 | 0.6 | 29.0 | 6.7 |
| **TCHEFUNCTA RIVER (SITE 6C3)(LAT 30 20 09N LONG 090 08 27W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1340 | 0.30 | 2460 | 7.9 | 213 | 0.8 | 31.0 | 8.0 |
| 16... | 1341 | 6.6 | 2560 | 7.8 | 217 | 0.9 | 29.5 | 8.2 |
| 16... | 1342 | 13.1 | 2660 | 8.0 | 251 | 0.9 | 29.0 | 7.1 |
| 16... | 1345 | 0.30 | 2450 | 7.9 | 208 | 0.8 | 31.0 | 8.0 |
| 16... | 1346 | 6.6 | 2560 | 7.9 | 207 | 0.9 | 29.5 | 8.1 |
| 16... | 1347 | 13.4 | 2670 | 8.0 | 237 | 0.9 | 29.0 | 7.0 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **BAYOU CASTINE (SITE 7A1)(LAT 30 20 43N LONG 090 03 52W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1455 | 0.30 | 2360 | 7.5 | 125 | 0.8 | 32.0 | 7.6 |
| 16... | 1456 | 4.3 | 2390 | 7.3 | 119 | 0.8 | 31.5 | 7.6 |
| 16... | 1457 | 8.5 | 2500 | 7.0 | 129 | 0.8 | 30.5 | 7.0 |
| 16... | 1505 | 0.30 | 2410 | 7.5 | 145 | 0.8 | 32.0 | 7.4 |
| 16... | 1506 | 3.3 | 2460 | 7.3 | 142 | 0.8 | 31.5 | 7.4 |
| 16... | 1507 | 6.9 | 2390 | 7.0 | 144 | 0.8 | 31.0 | 7.1 |
| **BAYOU CASTINE (SITE 7A2)(LAT 30 19 29N LONG 090 04 25W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1515 | 0.30 | 2500 | 8.0 | 176 | 0.8 | 31.0 | 8.0 |
| 16... | 1516 | 6.2 | 2760 | 7.7 | 184 | 1.0 | 30.0 | 8.0 |
| 16... | 1517 | 12.5 | 3400 | 7.0 | 212 | 1.4 | 29.5 | 7.1 |
| 16... | 1520 | 0.30 | 2450 | 8.0 | 170 | 0.8 | 31.5 | 8.0 |
| 16... | 1521 | 6.2 | 2450 | 8.0 | 172 | 0.8 | 31.0 | 8.0 |
| 16... | 1522 | 12.5 | 3380 | 7.0 | 202 | 1.4 | 29.5 | 7.0 |
| **BAYOU CASTINE (SITE 7A3)(LAT 30 18 14N LONG 090 04 53W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1530 | 0.30 | 3670 | 7.8 | 190 | 1.5 | 31.0 | 7.9 |
| 16... | 1531 | 6.9 | 3680 | 7.6 | 196 | 1.5 | 30.0 | 7.8 |
| 16... | 1532 | 13.8 | 3620 | 7.0 | 215 | 1.5 | 29.0 | 7.1 |
| 16... | 1540 | 0.30 | 3670 | 7.8 | 186 | 1.5 | 31.0 | 7.9 |
| 16... | 1541 | 6.9 | 3680 | 7.7 | 190 | 1.5 | 29.5 | 7.8 |
| 16... | 1542 | 13.8 | 3620 | 7.1 | 210 | 1.5 | 29.0 | 7.0 |
| **BAYOU CASTINE (SITE 7B1)(LAT 30 19 50N LONG 090 05 02W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1615 | 0.30 | 2250 | 8.2 | 204 | 0.7 | 31.0 | 8.1 |
| 16... | 1616 | 6.2 | 2300 | 7.9 | 211 | 0.7 | 29.5 | 8.1 |
| 16... | 1617 | 12.5 | 3130 | 7.1 | 242 | 1.2 | 29.0 | 7.0 |
| 16... | 1620 | 0.30 | 2230 | 8.2 | 199 | 0.7 | 31.5 | 8.0 |
| 16... | 1621 | 5.9 | 2250 | 8.0 | 206 | 0.7 | 30.0 | 8.0 |
| 16... | 1622 | 11.8 | 3110 | 7.0 | 236 | 1.2 | 29.0 | 6.8 |
| **BAYOU CASTINE (SITE 7B3)(LAT 30 19 00N LONG 090 06 08W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1625 | 0.30 | 3360 | 8.0 | 214 | 1.3 | 31.0 | 8.2 |
| 16... | 1626 | 6.6 | 3330 | 7.7 | 226 | 1.3 | 30.0 | 7.9 |
| 16... | 1627 | 13.4 | 3390 | 7.0 | 252 | 1.4 | 29.0 | 7.2 |
| 16... | 1630 | 0.30 | 3340 | 8.0 | 209 | 1.3 | 31.0 | 8.1 |
| 16... | 1631 | 6.6 | 3310 | 7.7 | 225 | 1.3 | 29.5 | 7.8 |
| 16... | 1632 | 13.1 | 3400 | 7.1 | 238 | 1.4 | 29.0 | 7.1 |
| **BAYOU CASTINE (SITE 7C2)(LAT 30 19 23N LONG 090 03 42W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1640 | 0.30 | 2770 | 7.0 | 209 | 1.0 | 31.0 | 8.0 |
| 16... | 1641 | 5.2 | 2850 | 8.0 | 214 | 1.0 | 31.0 | 8.0 |
| 16... | 1642 | 10.8 | 3340 | 7.1 | 243 | 1.3 | 29.5 | 7.3 |
| 16... | 1645 | 0.30 | 2740 | 8.0 | 204 | 1.0 | 31.0 | 8.0 |
| 16... | 1646 | 5.2 | 2830 | 7.9 | 209 | 1.0 | 31.0 | 7.8 |
| 16... | 1647 | 10.5 | 3350 | 7.1 | 234 | 1.3 | 29.5 | 7.2 |
| **BAYOU CASTINE (SITE 7C3)(LAT 30 18 09N LONG 090 03 15W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 16... | 1700 | 0.30 | 3590 | 7.9 | 220 | 1.5 | 31.5 | 7.9 |
| 16... | 1701 | 6.6 | 3670 | 7.7 | 229 | 1.5 | 30.0 | 7.8 |
| 16... | 1702 | 13.1 | 4200 | 7.1 | 251 | 1.8 | 29.5 | 7.1 |
| 16... | 1705 | 0.30 | 3580 | 7.9 | 215 | 1.5 | 31.5 | 7.9 |
| 16... | 1706 | 6.6 | 3730 | 7.6 | 229 | 1.5 | 29.5 | 7.4 |
| 16... | 1707 | 13.1 | 4180 | 7.0 | 242 | 1.8 | 29.5 | 6.8 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **BAYOU LACOMBE (SITE 8A1)(LAT 30 15 21N LONG 089 57 04W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 17... | 1010 | 0.30 | 4430 | 7.0 | 189 | 2.0 | 30.0 | 6.7 |
| 17... | 1011 | 3.9 | 4420 | 7.0 | 191 | 2.0 | 30.0 | 6.6 |
| 17... | 1012 | 7.9 | 5050 | 7.0 | 194 | 2.3 | 30.0 | 6.8 |
| 17... | 1015 | 0.30 | 4500 | 7.0 | 185 | 2.0 | 30.0 | 6.8 |
| 17... | 1016 | 3.6 | 4500 | 7.0 | 186 | 2.0 | 30.0 | 6.7 |
| 17... | 1017 | 7.2 | 4750 | 7.0 | 187 | 2.2 | 30.0 | 6.7 |
| **BAYOU LACOMBE (SITE 8A2)(LAT 30 14 03N LONG 089 57 25W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 17... | 1025 | 0.30 | 5240 | 7.2 | 224 | 2.4 | 29.5 | 7.2 |
| 17... | 1026 | 7.2 | 5240 | 7.1 | 227 | 2.4 | 29.5 | 7.2 |
| 17... | 1027 | 14.1 | 5260 | 7.0 | 231 | 2.4 | 29.5 | 7.3 |
| 17... | 1030 | 0.30 | 5240 | 7.2 | 218 | 2.4 | 29.5 | 7.2 |
| 17... | 1031 | 6.9 | 5240 | 7.2 | 220 | 2.4 | 29.5 | 7.2 |
| 17... | 1032 | 13.8 | 5260 | 7.1 | 224 | 2.5 | 29.5 | 7.1 |
| **BAYOU LACOMBE (SITE 8A3)(LAT 30 12 45N LONG 089 57 44W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 17... | 1035 | 0.30 | 5400 | 7.1 | 238 | 2.5 | 29.5 | 7.0 |
| 17... | 1036 | 7.2 | 5390 | 7.1 | 241 | 2.5 | 29.5 | 7.0 |
| 17... | 1037 | 14.1 | 5400 | 7.1 | 244 | 2.5 | 29.5 | 7.0 |
| 17... | 1040 | 0.30 | 5390 | 7.1 | 234 | 2.5 | 29.5 | 7.0 |
| 17... | 1041 | 7.2 | 5400 | 7.1 | 231 | 2.5 | 29.5 | 7.0 |
| 17... | 1042 | 14.1 | 5410 | 7.0 | 239 | 2.5 | 29.5 | 6.7 |
| **BAYOU LACOMBE (SITE 8B2)(LAT 30 14 23N LONG 089 58 05W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 17... | 1105 | 0.30 | 5140 | 7.2 | 219 | 2.4 | 30.0 | 7.3 |
| 17... | 1106 | 6.6 | 5150 | 7.1 | 220 | 2.4 | 29.5 | 7.3 |
| 17... | 1107 | 13.4 | 5160 | 7.0 | 223 | 2.4 | 29.5 | 7.1 |
| 17... | 1110 | 0.30 | 5150 | 7.2 | 217 | 2.4 | 30.0 | 7.2 |
| 17... | 1111 | 6.2 | 5140 | 7.1 | 218 | 2.4 | 30.0 | 7.2 |
| 17... | 1112 | 12.5 | 5170 | 7.0 | 221 | 2.4 | 29.5 | 7.1 |
| **BAYOU LACOMBE (SITE 8B3)(LAT 30 13 26N LONG 089 59 06W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 17... | 1120 | 0.30 | 5230 | 7.2 | 250 | 2.4 | 29.5 | 7.2 |
| 17... | 1121 | 6.6 | 5250 | 7.1 | 253 | 2.4 | 29.5 | 7.2 |
| 17... | 1122 | 13.1 | 5240 | 7.1 | 257 | 2.4 | 29.5 | 7.1 |
| 17... | 1125 | 0.30 | 5230 | 7.2 | 244 | 2.4 | 29.5 | 7.1 |
| 17... | 1126 | 6.6 | 5240 | 7.1 | 247 | 2.4 | 29.5 | 7.2 |
| 17... | 1127 | 13.1 | 5260 | 7.0 | 251 | 2.4 | 29.5 | 7.1 |
| **BAYOU LACOMBE (SITE 8C2)(LAT 30 14 06N LONG 089 56 47W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 17... | 1140 | 0.30 | 5160 | 7.2 | 229 | 2.4 | 30.0 | 7.1 |
| 17... | 1141 | 5.6 | 5160 | 7.1 | 231 | 2.4 | 30.0 | 7.2 |
| 17... | 1142 | 11.2 | 5210 | 7.1 | 234 | 2.4 | 29.5 | 7.1 |
| 17... | 1145 | 0.30 | 5170 | 7.2 | 228 | 2.4 | 30.0 | 7.1 |
| 17... | 1146 | 5.6 | 5190 | 7.1 | 229 | 2.4 | 29.5 | 7.2 |
| 17... | 1147 | 11.2 | 5230 | 7.1 | 231 | 2.4 | 29.5 | 7.0 |
| **BAYOU LACOMBE (SITE 8C3)(LAT 30 12 43N LONG 089 56 20W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 17... | 1150 | 0.30 | 5440 | 7.2 | 244 | 2.6 | 30.0 | 7.1 |
| 17... | 1151 | 7.2 | 5450 | 7.1 | 248 | 2.6 | 29.5 | 7.1 |
| 17... | 1152 | 14.7 | 5470 | 7.0 | 254 | 2.6 | 29.5 | 6.8 |
| 17... | 1155 | 0.30 | 5450 | 7.1 | 240 | 2.6 | 30.0 | 7.0 |
| 17... | 1156 | 7.2 | 5460 | 7.1 | 242 | 2.6 | 29.5 | 7.0 |
| 17... | 1157 | 14.4 | 5460 | 7.0 | 247 | 2.6 | 29.5 | 6.7 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **CHEF MENTEUR(SITE 9A1)(LAT 30 06 07N LONG 089 49 03W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 22... | 1130 | 0.30 | 5910 | 7.3 | 191 | 2.8 | 29.0 | 7.1 |
| 22... | 1131 | 2.0 | 5910 | 7.3 | 192 | 2.8 | 29.0 | 7.1 |
| 22... | 1132 | 3.9 | 5920 | 7.2 | 194 | 2.8 | 28.5 | 7.1 |
| 22... | 1135 | 0.30 | 5910 | 7.3 | 188 | 2.8 | 29.0 | 7.1 |
| 22... | 1136 | 2.0 | 5920 | 7.3 | 189 | 2.8 | 29.0 | 7.1 |
| 22... | 1137 | 4.3 | 5920 | 7.2 | 190 | 2.8 | 29.0 | 7.0 |
| **CHEF MENTEUR(SITE 9A2)(LAT 30 07 21N LONG 089 49 43W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 22... | 1150 | 0.30 | 5960 | 7.4 | 209 | 2.9 | 29.0 | 7.3 |
| 22... | 1151 | 2.6 | 5960 | 7.4 | 213 | 2.9 | 29.0 | 7.2 |
| 22... | 1152 | 5.6 | 5960 | 7.3 | 216 | 2.9 | 29.0 | 7.3 |
| 22... | 1155 | 0.30 | 5960 | 7.4 | 204 | 2.9 | 29.5 | 7.2 |
| 22... | 1156 | 2.6 | 5960 | 7.4 | 207 | 2.9 | 29.0 | 7.1 |
| 22... | 1157 | 5.6 | 5960 | 7.3 | 208 | 2.9 | 29.0 | 7.1 |
| **CHEF MENTEUR(SITE 9A3)(LAT 30 08 32N LONG 089 50 27W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 22... | 1205 | 0.30 | 5940 | 7.3 | 228 | 2.9 | 29.5 | 7.2 |
| 22... | 1206 | 3.9 | 5930 | 7.3 | 232 | 2.8 | 29.0 | 7.0 |
| 22... | 1207 | 8.2 | 5930 | 7.3 | 236 | 2.8 | 28.5 | 7.2 |
| 22... | 1210 | 0.30 | 5950 | 7.3 | 220 | 2.9 | 29.5 | 7.2 |
| 22... | 1211 | 3.9 | 5930 | 7.3 | 225 | 2.8 | 29.0 | 7.0 |
| 22... | 1212 | 7.9 | 5930 | 7.3 | 228 | 2.8 | 28.5 | 7.0 |
| **CHEF MENTEUR(SITE 9A4)(LAT 30 09 56N LONG 089 51 28W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 22... | 1225 | 0.30 | 5940 | 7.2 | 224 | 2.9 | 29.0 | 6.8 |
| 22... | 1226 | 5.2 | 5950 | 7.2 | 227 | 2.9 | 29.0 | 6.8 |
| 22... | 1227 | 10.5 | 5940 | 7.2 | 229 | 2.8 | 29.0 | 6.9 |
| 22... | 1230 | 0.30 | 5940 | 7.2 | 219 | 2.9 | 29.0 | 6.8 |
| 22... | 1231 | 5.2 | 5940 | 7.2 | 221 | 2.9 | 29.0 | 6.7 |
| 22... | 1232 | 10.5 | 5950 | 7.2 | 223 | 2.9 | 29.0 | 6.7 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **RIGOLETS (SITE 10A1) (LAT 30 10 28N LONG 089 45 08W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 23... | 1035 | 0.30 | 5210 | 7.1 | 189 | 2.4 | 28.0 | 7.4 |
| 23... | 1036 | 19.7 | 5340 | 7.1 | 190 | 2.5 | 28.0 | 6.8 |
| 23... | 1037 | 39.4 | 5470 | 7.1 | 190 | 2.6 | 28.0 | 6.9 |
| 23... | 1040 | 0.30 | 5310 | 7.1 | 188 | 2.5 | 28.0 | 7.0 |
| 23... | 1041 | 21.6 | 5350 | 7.1 | 188 | 2.5 | 28.5 | 6.9 |
| 23... | 1042 | 43.0 | 5600 | 7.1 | 187 | 2.6 | 28.0 | 6.8 |
| **RIGOLETS (SITE 10A2) (LAT 30 10 29N LONG 089 46 41W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 23... | 1100 | 0.30 | 4890 | 7.1 | 242 | 2.2 | 28.0 | 7.2 |
| 23... | 1101 | 3.3 | 4900 | 7.1 | 245 | 2.2 | 28.0 | 7.2 |
| 23... | 1102 | 6.6 | 4900 | 7.1 | 249 | 2.2 | 28.0 | 7.2 |
| 23... | 1105 | 0.30 | 4890 | 7.1 | 235 | 2.2 | 28.0 | 7.1 |
| 23... | 1106 | 3.3 | 4890 | 7.1 | 237 | 2.2 | 28.0 | 7.1 |
| 23... | 1107 | 6.2 | 4900 | 7.1 | 239 | 2.2 | 28.0 | 7.1 |
| **RIGOLETS (SITE 10A3) (LAT 30 10 38N LONG 089 48 12W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 23... | 1115 | 0.30 | 4980 | 7.1 | 239 | 2.3 | 28.0 | 7.0 |
| 23... | 1116 | 3.9 | 4980 | 7.1 | 241 | 2.3 | 28.0 | 7.0 |
| 23... | 1117 | 7.5 | 4980 | 7.1 | 242 | 2.3 | 28.0 | 7.2 |
| 23... | 1120 | 0.30 | 4970 | 7.1 | 234 | 2.3 | 28.0 | 6.9 |
| 23... | 1121 | 3.3 | 4970 | 7.1 | 235 | 2.3 | 28.0 | 6.9 |
| 23... | 1122 | 6.9 | 4970 | 7.1 | 236 | -- | 28.0 | 7.0 |
| **RIGOLETS (SITE 10A4) (LAT 30 12 18N LONG 089 50 19W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 23... | 1130 | 0.30 | 4570 | -- | -- | 2.0 | 28.0 | 7.0 |
| 23... | 1131 | 7.2 | 4580 | -- | -- | 2.0 | 28.0 | 7.2 |
| 23... | 1132 | 14.7 | 4580 | -- | -- | 2.1 | 28.0 | 7.4 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | SAMPLING DEPTH (FT) | SPECIFIC CONDUCTANCE (US/CM) | PH WATER WHOLE FIELD (STANDARD UNITS) | OXIDATION REDUCTION POTENTIAL (MV) | SALINITY (PPT) | TEMPERATURE WATER (DEG C) | OXYGEN, DISSOLVED (MG/L) |
|---|---|---|---|---|---|---|---|---|
| **CAUSEWAY (SITE 11A1) (LAT 30 18 54N LONG 090 06 10W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 28... | 1330 | 0.30 | 1200 | 7.7 | -- | 0.6 | 30.5 | 8.0 |
| 28... | 1331 | 6.6 | 1220 | 7.2 | -- | 0.6 | 29.0 | 6.9 |
| 28... | 1332 | 13.1 | 1250 | 7.2 | -- | 0.7 | 28.5 | 6.6 |
| **CAUSEWAY (SITE 11A2) (LAT 30 15 29N LONG 090 06 44W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 28... | 1345 | 0.30 | 2200 | 7.8 | -- | 1.2 | 30.0 | 7.8 |
| 28... | 1346 | 7.2 | 2200 | 7.4 | -- | 1.2 | 28.5 | 6.6 |
| 28... | 1347 | 14.7 | 2200 | 7.3 | -- | 1.1 | 28.5 | 6.7 |
| **CAUSEWAY (SITE 11A4) (LAT 30 12 08N LONG 090 07 20W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 28... | 1400 | 0.30 | 3110 | 7.6 | -- | 1.7 | 30.0 | 8.0 |
| 28... | 1401 | 7.2 | 3300 | 7.3 | -- | 1.7 | 28.5 | 7.5 |
| 28... | 1402 | 14.7 | 3630 | 7.3 | -- | 2.1 | 28.5 | 7.2 |
| 28... | 1410 | 0.30 | 3240 | 7.5 | -- | 1.7 | 30.5 | 8.0 |
| 28... | 1411 | 7.2 | 3450 | 7.4 | -- | 1.8 | 28.5 | 7.5 |
| 28... | 1412 | 14.7 | 3800 | 7.3 | -- | 2.1 | 28.5 | 7.2 |
| **CAUSEWAY (SITE 11A5) (LAT 30 08 31N LONG 090 07 57W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 28... | 1445 | 0.30 | 3980 | 7.6 | -- | 2.2 | 30.0 | 7.8 |
| 28... | 1446 | 6.6 | 3670 | 7.3 | -- | 2.0 | 28.5 | 7.4 |
| 28... | 1447 | 13.1 | 4300 | 7.4 | -- | 2.4 | 28.0 | 7.0 |
| **CAUSEWAY (SITE 11A7) (LAT 30 04 09N LONG 090 08 44W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 28... | 1505 | 0.30 | 6400 | 7.8 | -- | 3.6 | 30.0 | 7.9 |
| 28... | 1506 | 6.6 | 6220 | 7.9 | -- | 3.3 | 29.0 | 8.1 |
| 28... | 1507 | 13.1 | 7200 | 7.5 | -- | 3.9 | 29.0 | 7.7 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | NITRO-GEN, NITRITE TOTAL (MG/L AS N) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) | NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | NITRO-GEN, AMMONIA TOTAL (MG/L AS N) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) | NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) |
|---|---|---|---|---|---|---|---|---|
| **BONNET CARRE (SITE 1A1) (LAT 30 03 59N LONG 090 22 55W)** | | | | | | | | |
| JUN 1994 13... | 1035 | 0.01 | 0.01 | 0.24 | 0.23 | 0.06 | 0.06 | 0.51 |
| **BONNET CARRE (SITE 1A3) (LAT 30 06 01N LONG 090 20 58W)** | | | | | | | | |
| JUN 1994 13... | 1110 | <0.01 | <0.01 | 0.08 | 0.08 | 0.06 | 0.06 | 0.23 |
| **PASS MANCHAC (SITE 2A1) (LAT 30 17 36N LONG 090 18 10W)** | | | | | | | | |
| JUN 1994 14... | 1110 | <0.01 | <0.01 | 0.04 | 0.04 | 0.06 | 0.06 | 0.55 |
| **PASS MANCHAC (SITE 2A3) (LAT 30 15 45N LONG 090 16 09W)** | | | | | | | | |
| JUN 1994 14... | 1145 | <0.01 | <0.01 | <0.02 | <0.02 | 0.03 | 0.03 | 0.23 |
| **TANGIPAHOA R. (SITE 3A1)(LAT 30 19 59N LONG 090 16 02W)** | | | | | | | | |
| JUN 1994 14... | 1345 | 0.01 | <0.01 | 0.13 | 0.08 | 0.04 | 0.03 | 0.54 |
| **TANGIPAHOA R. (SITE 3A3)(LAT 30 18 13N LONG 090 13 43W)** | | | | | | | | |
| JUN 1994 14... | 1420 | <0.01 | <0.01 | 0.06 | 0.06 | 0.03 | 0.02 | 0.25 |
| **IHNC (SITE 4A1) (LAT 30 02 34N LONG 090 02 16W)** | | | | | | | | |
| JUN 1994 15... | 1050 | <0.01 | <0.01 | <0.02 | <0.02 | 0.03 | 0.03 | 0.43 |
| **IHNC (SITE 4A3) (LAT 30 04 41N LONG 090 04 10W)** | | | | | | | | |
| JUN 1994 15... | 1120 | <0.01 | <0.01 | 0.03 | <0.02 | 0.03 | 0.02 | 0.40 |
| **17TH ST CANAL (SITE 5A1)(LAT 30 01 28N LONG 090 07 18W)** | | | | | | | | |
| JUN 1994 15... | 1315 | 0.01 | 0.01 | 0.12 | 0.12 | 0.09 | 0.09 | 0.54 |
| **17TH ST CANAL (SITE 5A3)(LAT 30 03 41N LONG 090 08 52W)** | | | | | | | | |
| JUN 1994 15... | 1410 | <0.01 | <0.01 | <0.02 | <0.02 | 0.02 | 0.02 | 0.43 |
| **TCHEFUNCTA R. (SITE 6A1)(LAT 30 22 24N LONG 090 09 49W)** | | | | | | | | |
| JUN 1994 16... | 1200 | <0.01 | <0.01 | <0.02 | <0.02 | 0.02 | 0.02 | 0.59 |
| **TCHEFUNCTA R. (SITE 6A3)(LAT 30 19 38N LONG 090 09 58W)** | | | | | | | | |
| JUN 1994 16... | 1230 | <0.01 | <0.01 | <0.02 | <0.02 | 0.02 | 0.02 | 0.42 |
| **BAYOU CASTINE (SITE 7A1)(LAT 30 20 43N LONG 090 03 52W)** | | | | | | | | |
| JUN 1994 16... | 1455 | <0.01 | <0.01 | <0.02 | <0.02 | 0.01 | 0.01 | 0.45 |
| **BAYOU CASTINE (SITE 7A3)(LAT 30 18 14N LONG 090 04 53W)** | | | | | | | | |
| JUN 1994 16... | 1530 | <0.01 | <0.01 | <0.02 | <0.02 | 0.02 | 0.02 | 0.43 |
| **BAYOU LACOMBE (SITE 8A1)(LAT 30 15 21N LONG 089 57 04W)** | | | | | | | | |
| JUN 1994 17... | 1010 | <0.01 | <0.01 | <0.02 | <0.02 | 0.02 | 0.02 | 0.52 |
| **BAYOU LACOMBE (SITE 8A3)(LAT 30 12 45N LONG 089 57 44W)** | | | | | | | | |
| JUN 1994 17... | 1035 | <0.01 | <0.01 | <0.02 | <0.02 | 0.02 | 0.02 | 0.36 |
| **CHEF MENTEUR(SITE 9A1)(LAT 30 06 07N LONG 089 49 03W)** | | | | | | | | |
| JUN 1994 22... | 1130 | <0.01 | <0.01 | 0.03 | 0.03 | 0.03 | 0.04 | 0.45 |
| **CHEF MENTEUR(SITE 9A3)(LAT 30 08 32N LONG 089 50 27W)** | | | | | | | | |
| JUN 1994 22... | 1205 | <0.01 | <0.01 | <0.02 | <0.02 | 0.03 | 0.03 | 0.30 |
| **RIGOLETS (SITE 10A1) (LAT 30 10 28N LONG 089 45 08W)** | | | | | | | | |
| JUN 1994 23... | 1035 | <0.01 | <0.01 | <0.02 | <0.02 | 0.04 | 0.04 | 0.39 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | NITRO-GEN, NITRITE TOTAL (MG/L AS N) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) | NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | NITRO-GEN, AMMONIA TOTAL (MG/L AS N) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) | NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) |
|---|---|---|---|---|---|---|---|---|
| **RIGOLETS (SITE 10A3) (LAT 30 10 38N LONG 089 48 12W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 23... | 1115 | <0.01 | <0.01 | <0.02 | <0.02 | 0.04 | 0.04 | 0.46 |
| **CAUSEWAY (SITE 11A4) (LAT 30 12 08N LONG 090 07 20W)** | | | | | | | | |
| JUN 1994 | | | | | | | | |
| 28... | 1400 | <0.01 | <0.01 | <0.02 | 0.02 | 0.03 | 0.03 | 0.38 |
| 28... | 1410 | <0.01 | <0.01 | <0.02 | <0.02 | 0.02 | 0.02 | 0.38 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) | PHOS-PHORUS TOTAL (MG/L AS P) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) | PHOS-PHORUS ORTHO TOTAL (MG/L AS P) | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) | CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) | CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) |
|---|---|---|---|---|---|---|---|
| **BONNET CARRE (SITE 1A1) (LAT 30 03 59N LONG 090 22 55W)** | | | | | | | |
| JUN 1994 13... | 0.24 | 0.09 | 0.02 | 0.07 | 0.04 | 0.7 | <0.1 |
| **BONNET CARRE (SITE 1A3) (LAT 30 06 01N LONG 090 20 58W)** | | | | | | | |
| JUN 1994 13... | <0.20 | 0.04 | 0.02 | 0.03 | 0.02 | 3.5 | 0.4 |
| **PASS MANCHAC (SITE 2A1) (LAT 30 17 36N LONG 090 18 10W)** | | | | | | | |
| JUN 1994 14... | 0.40 | 0.06 | 0.06 | 0.05 | 0.04 | 1.4 | 0.2 |
| **PASS MANCHAC (SITE 2A3) (LAT 30 15 45N LONG 090 16 09W)** | | | | | | | |
| JUN 1994 14... | <0.20 | 0.09 | <0.02 | 0.02 | 0.01 | 2.6 | 0.4 |
| **TANGIPAHOA R. (SITE 3A1)(LAT 30 19 59N LONG 090 16 02W)** | | | | | | | |
| JUN 1994 14... | 0.21 | 0.10 | 0.03 | 0.08 | 0.03 | 5.9 | 0.8 |
| **TANGIPAHOA R. (SITE 3A3)(LAT 30 18 13N LONG 090 13 43W)** | | | | | | | |
| JUN 1994 14... | <0.20 | 0.06 | <0.02 | 0.02 | 0.01 | 4.5 | 0.5 |
| **IHNC (SITE 4A1) (LAT 30 02 34N LONG 090 02 16W)** | | | | | | | |
| JUN 1994 15... | 0.40 | 0.04 | 0.02 | 0.02 | 0.02 | 2.2 | 0.1 |
| **IHNC (SITE 4A3) (LAT 30 04 41N LONG 090 04 10W)** | | | | | | | |
| JUN 1994 15... | 0.28 | 0.02 | <0.02 | 0.01 | 0.01 | 1.3 | 0.2 |
| **17TH ST CANAL (SITE 5A1)(LAT 30 01 28N LONG 090 07 18W)** | | | | | | | |
| JUN 1994 15... | 0.45 | 0.07 | 0.05 | 0.07 | 0.06 | 3.6 | 0.2 |
| **17TH ST CANAL (SITE 5A3)(LAT 30 03 41N LONG 090 08 52W)** | | | | | | | |
| JUN 1994 15... | 0.39 | 0.02 | <0.02 | 0.01 | 0.01 | 2.4 | 0.2 |
| **TCHEFUNCTA R. (SITE 6A1)(LAT 30 22 24N LONG 090 09 49W)** | | | | | | | |
| JUN 1994 16... | 0.38 | 0.09 | 0.06 | 0.07 | 0.06 | 9.1 | 0.8 |
| **TCHEFUNCTA R. (SITE 6A3)(LAT 30 19 38N LONG 090 09 58W)** | | | | | | | |
| JUN 1994 16... | 0.38 | 0.02 | <0.02 | 0.02 | 0.01 | 1.4 | 0.1 |
| **BAYOU CASTINE (SITE 7A1)(LAT 30 20 43N LONG 090 03 52W)** | | | | | | | |
| JUN 1994 16... | 0.33 | 0.03 | <0.02 | 0.02 | 0.01 | 2.2 | <0.1 |
| **BAYOU CASTINE (SITE 7A3)(LAT 30 18 14N LONG 090 04 53W)** | | | | | | | |
| JUN 1994 16... | 0.33 | 0.02 | <0.02 | 0.01 | <0.01 | 1.8 | 0.2 |
| **BAYOU LACOMBE (SITE 8A1)(LAT 30 15 21N LONG 089 57 04W)** | | | | | | | |
| JUN 1994 17... | 0.34 | 0.03 | <0.02 | 0.02 | 0.01 | 0.7 | 0.1 |
| **BAYOU LACOMBE (SITE 8A3)(LAT 30 12 45N LONG 089 57 44W)** | | | | | | | |
| JUN 1994 17... | 0.28 | 0.02 | 0.02 | 0.01 | 0.01 | 5.2 | 0.7 |
| **CHEF MENTEUR(SITE 9A1)(LAT 30 06 07N LONG 089 49 03W)** | | | | | | | |
| JUN 1994 22... | 0.24 | 0.05 | 0.03 | 0.03 | 0.02 | 1.8 | 0.2 |
| **CHEF MENTEUR(SITE 9A3)(LAT 30 08 32N LONG 089 50 27W)** | | | | | | | |
| JUN 1994 22... | 0.21 | 0.03 | 0.02 | 0.02 | 0.01 | 2.1 | 0.3 |
| **RIGOLETS (SITE 10A1) (LAT 30 10 28N LONG 089 45 08W)** | | | | | | | |
| JUN 1994 23... | 0.30 | 0.05 | 0.03 | 0.03 | 0.02 | 1.6 | 0.2 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) | PHOSPHORUS TOTAL (MG/L AS P) | PHOSPHORUS DISSOLVED (MG/L AS P) | PHOSPHORUS ORTHO TOTAL (MG/L AS P) | PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) | CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) | CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) |
|---|---|---|---|---|---|---|---|
| **RIGOLETS (SITE 10A3) (LAT 30 10 38N LONG 089 48 12W)** | | | | | | | |
| JUN 1994 | | | | | | | |
| 23... | 0.30 | 0.04 | 0.03 | 0.03 | 0.02 | 1.2 | 0.1 |
| **CAUSEWAY (SITE 11A4) (LAT 30 12 08N LONG 090 07 20W)** | | | | | | | |
| JUN 1994 | | | | | | | |
| 28... | 0.23 | 0.03 | 0.02 | 0.02 | 0.01 | 3.3 | 0.2 |
| 28... | 0.22 | 0.04 | 0.03 | 0.02 | 0.01 | 3.8 | 0.2 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | ALA-CHLOR, WATER, DISS, REC, (UG/L) | AMETRYN WATER, DISS, REC, (UG/L) | ATRA-ZINE, WATER, DISS, REC (UG/L) | CYANA-ZINE, WATER, DISS, REC (UG/L) | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) | DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) |
|---|---|---|---|---|---|---|---|
| **BONNET CARRE (SITE 1A1) (LAT 30 03 59N LONG 090 22 55W)** | | | | | | | |
| JUN 1994 13... | 1035 | <0.05 | <0.05 | 0.65 | 0.3 | 0.06 | <0.05 |
| **BONNET CARRE (SITE 1A3) (LAT 30 06 01N LONG 090 20 58W)** | | | | | | | |
| JUN 1994 13... | 1110 | <0.05 | <0.05 | 0.54 | <0.2 | <0.05 | <0.05 |
| **PASS MANCHAC (SITE 2A1) (LAT 30 17 36N LONG 090 18 10W)** | | | | | | | |
| JUN 1994 14... | 1110 | <0.05 | <0.05 | 0.19 | <0.2 | <0.05 | <0.05 |
| **PASS MANCHAC (SITE 2A3) (LAT 30 15 45N LONG 090 16 09W)** | | | | | | | |
| JUN 1994 14... | 1145 | <0.05 | <0.05 | 0.27 | <0.2 | <0.05 | <0.05 |
| **TANGIPAHOA RIVER (SITE 3A1)(LAT 30 19 59N LONG 090 16 02W)** | | | | | | | |
| JUN 1994 14... | 1345 | <0.05 | <0.05 | 0.16 | <0.2 | <0.05 | <0.05 |
| **TANGIPAHOA RIVER (SITE 3A3)(LAT 30 18 13N LONG 090 13 43W)** | | | | | | | |
| JUN 1994 14... | 1420 | <0.05 | <0.05 | 0.23 | <0.2 | <0.05 | <0.05 |
| **IHNC (SITE 4A1) (LAT 30 02 34N LONG 090 02 16W)** | | | | | | | |
| JUN 1994 15... | 1050 | <0.05 | <0.05 | 0.17 | <0.2 | <0.05 | <0.05 |
| **IHNC (SITE 4A3) (LAT 30 04 41N LONG 090 04 10W)** | | | | | | | |
| JUN 1994 15... | 1120 | <0.05 | <0.05 | 0.12 | <0.2 | <0.05 | <0.05 |
| **17TH ST CANAL (SITE 5A1)(LAT 30 01 28N LONG 090 07 18W)** | | | | | | | |
| JUN 1994 15... | 1315 | <0.05 | <0.05 | 0.22 | <0.2 | <0.05 | <0.05 |
| **17TH ST CANAL (SITE 5A3)(LAT 30 03 41N LONG 090 08 52W)** | | | | | | | |
| JUN 1994 15... | 1410 | <0.05 | <0.05 | 0.19 | <0.2 | <0.05 | <0.05 |
| **TCHEFUNCTA RIVER (SITE 6A1)(LAT 30 22 24N LONG 090 09 49W)** | | | | | | | |
| JUN 1994 16... | 1200 | <0.05 | <0.05 | 0.17 | <0.2 | <0.05 | <0.05 |
| **TCHEFUNCTA RIVER (SITE 6A3)(LAT 30 19 38N LONG 090 09 58W)** | | | | | | | |
| JUN 1994 16... | 1230 | <0.05 | <0.05 | 0.19 | <0.2 | <0.05 | <0.05 |
| **BAYOU CASTINE (SITE 7A1)(LAT 30 20 43N LONG 090 03 52W)** | | | | | | | |
| JUN 1994 16... | 1455 | <0.05 | <0.05 | 0.16 | <0.2 | <0.05 | <0.05 |
| **BAYOU CASTINE (SITE 7A3)(LAT 30 18 14N LONG 090 04 53W)** | | | | | | | |
| JUN 1994 16... | 1530 | <0.05 | <0.05 | 0.12 | <0.2 | <0.05 | <0.05 |
| **BAYOU LACOMBE (SITE 8A1)(LAT 30 15 21N LONG 089 57 04W)** | | | | | | | |
| JUN 1994 17... | 1010 | <0.05 | <0.05 | 0.08 | <0.2 | <0.05 | <0.05 |
| **BAYOU LACOMBE (SITE 8A3)(LAT 30 12 45N LONG 089 57 44W)** | | | | | | | |
| JUN 1994 17... | 1035 | <0.05 | <0.05 | 0.08 | <0.2 | <0.05 | <0.05 |
| **CHEF MENTEUR(SITE 9A1)(LAT 30 06 07N LONG 089 49 03W)** | | | | | | | |
| JUN 1994 22... | 1130 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 |
| **CHEF MENTEUR(SITE 9A3)(LAT 30 08 32N LONG 089 50 27W)** | | | | | | | |
| JUN 1994 22... | 1205 | <0.05 | <0.05 | 0.05 | <0.2 | <0.05 | <0.05 |
| **RIGOLETS (SITE 10A1) (LAT 30 10 28N LONG 089 45 08W)** | | | | | | | |
| JUN 1994 23... | 1035 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 |
| **RIGOLETS (SITE 10A3) (LAT 30 10 38N LONG 089 48 12W)** | | | | | | | |
| JUN 1994 23... | 1115 | -- | -- | -- | -- | -- | -- |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | TIME | ALA-CHLOR, WATER, DISS, REC. (UG/L) | AMETRYN WATER, DISS, REC, (UG/L) | ATRA-ZINE, WATER, DISS, REC (UG/L) | CYANA-ZINE, WATER, DISS, REC (UG/L) | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) | DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) |
|---|---|---|---|---|---|---|---|
| **CAUSEWAY (SITE 11A1) (LAT 30 18 54N LONG 090 06 10W)** | | | | | | | |
| JUN 1994 28... | 1330 | -- | -- | -- | -- | -- | -- |
| **CAUSEWAY (SITE 11A4) (LAT 30 12 08N LONG 090 07 20W)** | | | | | | | |
| JUN 1994 28... | 1400 | <0.05 | <0.05 | 0.07 | <0.2 | <0.05 | 2.0 |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | METO-LACHLOR WATER DISSOLV (UG/L) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) | PROP-AZINE WATER DISS REC (UG/L) | SI-MAZINE, WATER, DISS, REC (UG/L) | PRO-METON, WATER, DISS, REC (UG/L) | PRO-METRYN, WATER, DISS, REC (UG/L) |
|---|---|---|---|---|---|---|
| **BONNET CARRE (SITE 1A1) (LAT 30 03 59N LONG 090 22 55W)** | | | | | | |
| JUN 1994 13... | 0.17 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 |
| **BONNET CARRE (SITE 1A3) (LAT 30 06 01N LONG 090 20 58W)** | | | | | | |
| JUN 1994 13... | 0.14 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 |
| **PASS MANCHAC (SITE 2A1) (LAT 30 17 36N LONG 090 18 10W)** | | | | | | |
| JUN 1994 14... | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **PASS MANCHAC (SITE 2A3) (LAT 30 15 45N LONG 090 16 09W)** | | | | | | |
| JUN 1994 14... | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **TANGIPAHOA RIVER (SITE 3A1)(LAT 30 19 59N LONG 090 16 02W)** | | | | | | |
| JUN 1994 14... | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **TANGIPAHOA RIVER (SITE 3A3)(LAT 30 18 13N LONG 090 13 43W)** | | | | | | |
| JUN 1994 14... | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **IHNC (SITE 4A1) (LAT 30 02 34N LONG 090 02 16W)** | | | | | | |
| JUN 1994 15... | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **IHNC (SITE 4A3) (LAT 30 04 41N LONG 090 04 10W)** | | | | | | |
| JUN 1994 15... | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **17TH ST CANAL (SITE 5A1)(LAT 30 01 28N LONG 090 07 18W)** | | | | | | |
| JUN 1994 15... | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 |
| **17TH ST CANAL (SITE 5A3)(LAT 30 03 41N LONG 090 08 52W)** | | | | | | |
| JUN 1994 15... | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 |
| **TCHEFUNCTA RIVER (SITE 6A1)(LAT 30 22 24N LONG 090 09 49W)** | | | | | | |
| JUN 1994 16... | 0.05 | <0.05 | <0.05 | 0.17 | <0.05 | <0.05 |
| **TCHEFUNCTA RIVER (SITE 6A3)(LAT 30 19 38N LONG 090 09 58W)** | | | | | | |
| JUN 1994 16... | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **BAYOU CASTINE (SITE 7A1)(LAT 30 20 43N LONG 090 03 52W)** | | | | | | |
| JUN 1994 16... | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 |
| **BAYOU CASTINE (SITE 7A3)(LAT 30 18 14N LONG 090 04 53W)** | | | | | | |
| JUN 1994 16... | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 |
| **BAYOU LACOMBE (SITE 8A1)(LAT 30 15 21N LONG 089 57 04W)** | | | | | | |
| JUN 1994 17... | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **BAYOU LACOMBE (SITE 8A3)(LAT 30 12 45N LONG 089 57 44W)** | | | | | | |
| JUN 1994 17... | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| **CHEF MENTEUR(SITE 9A1)(LAT 30 06 07N LONG 089 49 03W)** | | | | | | |
| JUN 1994 22... | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 |
| **CHEF MENTEUR(SITE 9A3)(LAT 30 08 32N LONG 089 50 27W)** | | | | | | |
| JUN 1994 22... | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 |
| **RIGOLETS (SITE 10A1) (LAT 30 10 28N LONG 089 45 08W)** | | | | | | |
| JUN 1994 23... | <0.05 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 |
| **RIGOLETS (SITE 10A3) (LAT 30 10 38N LONG 089 48 12W)** | | | | | | |
| JUN 1994 23... | -- | -- | -- | -- | -- | -- |

**Table 7.** Physical and chemical-related properties and concentrations of chemical constituents for selected sites in Lake Pontchartrain, Louisiana, June 13-17, 22, 23, and 28, 1994—Continued

| DATE | METO-LACHLOR WATER DISSOLV (UG/L) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) | PROP-AZINE WATER DISS REC (UG/L) | SI-MAZINE, WATER, DISS, REC (UG/L) | PRO-METON, WATER, DISS, REC (UG/L) | PRO-METRYN, WATER, DISS, REC (UG/L) |
|---|---|---|---|---|---|---|
| **CAUSEWAY (SITE 11A1) (LAT 30 18 54N LONG 090 06 10W)** | | | | | | |
| JUN 1994 | | | | | | |
| 28... | -- | -- | -- | -- | -- | -- |
| **CAUSEWAY (SITE 11A4) (LAT 30 12 08N LONG 090 07 20W)** | | | | | | |
| JUN 1994 | | | | | | |
| 28... | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 |

**Table 8.** Statistical summary of water-quality data for the Bonnet Carré Spillway, Louisiana

[Water temperature is in degrees Celsius, specific conductance is in microsiemens per centimeter at 25 degrees Celsius, and other units are given; <, less than]

**Lake Pontchartrain 2.2 miles north-northwest of Chef Menteur, Louisiana, July 1979-January 1981 (Spillway closed)**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| **Physical properties** | | | | | | | | | | | |
| Specific conductance | 19 | (a) | (a) | 16,700 | 1,280 | 8,530 | 1,280 | 4,250 | 9,460 | 11,000 | 16,700 |
| pH (standard units) | 19 | (a) | (a) | 7.9 | 6.5 | 7.5 | 6.5 | 7.3 | 7.6 | 7.7 | 7.9 |
| Dissolved oxygen (milligrams per liter) | 19 | (a) | (a) | 11.3 | 6.4 | 8.7 | 6.4 | 7.1 | 8.7 | 10.0 | 11.3 |
| **Major cations (milligrams per liter)** | | | | | | | | | | | |
| Calcium, dissolved | 19 | 0.01 | 19 | 130 | 12 | 68 | 12 | 37 | 74 | 89 | 130 |
| Magnesium, dissolved | 19 | .01 | 19 | 380 | 24 | 180 | 24 | 86 | 210 | 240 | 380 |
| Sodium, dissolved | 19 | .01 | 19 | 3,100 | 220 | 1,500 | 220 | 690 | 1,700 | 2,100 | 3,100 |
| Potassium, dissolved | 19 | .01 | 19 | 110 | 9.9 | 61 | 9.9 | 37 | 64 | 85 | 110 |
| **Major anions (milligrams per liter)** | | | | | | | | | | | |
| Alkalinity, total as $CaCO_3$ | 19 | 1 | 19 | 66 | 18 | 48 | 18 | 38 | 49 | 57 | 66 |
| Sulfate, dissolved | 19 | .1 | 19 | 710 | 56 | 380 | 56 | 180 | 430 | 490 | 710 |
| Chloride, dissolved | 19 | .1 | 19 | 5,600 | 370 | 2,800 | 370 | 1,200 | 3,100 | 3,900 | 5,600 |
| **Nutrients (milligrams per liter)** | | | | | | | | | | | |
| Nitrogen, nitrite plus nitrate, total as nitrogen | 18 | 0.01 | 13 | 0.39 | <0.01 | (c) | <0.01 | <0.01 | 0.02 | 0.08 | 0.39 |
| Phosphorus, total as phosphorus | 18 | .01 | 18 | .25 | .02 | .06 | .02 | .04 | .05 | .06 | .25 |

**Lake Pontchartrain 2.2 miles north-northwest of Chef Menteur, Louisiana, July 1979-January 1981 (Spillway closed)—Continued**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| Biological constituents--bacteria (colonies per 100 milliliters) | | | | | | | | | | | |
| Fecal coliform | 19 | 5 | 9 | 32 | <5 | (c) | <5 | <5 | <5 | 15 | 32 |
| Trace metals (micrograms per liter) | | | | | | | | | | | |
| Copper, dissolved | 19 | 2 | 9 | 4 | <1 | (c) | <2 | <2 | <2 | 2 | 4 |
| Iron, dissolved | 19 | 10 | 16 | 60 | <10 | (c) | <10 | 10 | 20 | 40 | 60 |
| Lead, dissolved | 19 | 2 | 3 | 2 | <2 | (c) | <2 | <2 | <2 | <2 | 2 |
| Zinc, dissolved | 19 | 20 | 4 | 20 | <20 | (c) | <20 | <20 | <20 | <20 | 20 |
| Organic compounds (micrograms per liter) | | | | | | | | | | | |
| DDT, total | 19 | 0.001 | 0 | <0.001 | <0.001 | (c) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB, total | 19 | .1 | 0 | <.1 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Diazinon, total | 19 | .01 | 13 | .02 | <.01 | (c) | <.01 | <.01 | .01 | .01 | .02 |
| Lindane, total | 19 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Chlordane, total | 19 | .1 | 0 | <.1 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Malathion, total | 19 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Endrin, total | 19 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Parathion, total | 19 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Dieldrin, total | 19 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Endosulfan, total | 19 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| 2,4-D, total | 19 | .01 | 15 | .30 | <.01 | (c) | <.01 | .01 | .02 | .02 | .30 |

**Table 8.** Statistical summary of water-quality data for the Bonnet Carré Spillway, Louisiana

**Lake Pontchartrain 2.2 miles north-northwest of Chef Menteur, Louisiana, April-June 1979 (Spillway opened)**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| **Physical properties** | | | | | | | | | | | |
| Specific conductance | 49 | (a) | (a) | 9,440 | 298 | 1,770 | 306 | 370 | 1,040 | 2,980 | 4,740 |
| pH (standard units) | 49 | (a) | (a) | 8.4 | 7.3 | 7.8 | 7.3 | 7.7 | 7.8 | 7.9 | 8.2 |
| Dissolved oxygen (milligrams per liter) | 50 | (a) | (a) | 8.8 | 6.4 | 7.9 | 7.2 | 7.6 | 8.0 | 8.4 | 8.7 |
| **Major cations (milligrams per liter)** | | | | | | | | | | | |
| Calcium, dissolved | 49 | 0.01 | 49 | 83 | 24 | 33 | 25 | 28 | 30 | 34 | 47 |
| Magnesium, dissolved | 49 | .01 | 49 | 200 | 4.7 | 36 | 9.0 | 11 | 21 | 56 | 91 |
| Sodium, dissolved | 49 | .01 | 49 | 1,600 | 17 | 270 | 19 | 28 | 140 | 470 | 780 |
| Potassium, dissolved | 49 | .01 | 49 | 73 | 3.1 | 13 | 3.2 | 3.7 | 8.6 | 21 | 32 |
| **Major anions (milligrams per liter)** | | | | | | | | | | | |
| Alkalinity, total as $CaCO_3$ | 49 | 1 | 49 | 85 | 25 | 65 | 30 | 58 | 71 | 77 | 82 |
| Sulfate, dissolved | 49 | .1 | 49 | 510 | 30 | 95 | 33 | 39 | 59 | 140 | 220 |
| Chloride, dissolved | 49 | .1 | 49 | 2,900 | 23 | 470 | 29 | 42 | 240 | 840 | 1,400 |
| **Nutrients (milligrams per liter)** | | | | | | | | | | | |
| Nitrogen, nitrite plus nitrate, total as nitrogen | 49 | .10 | 43 | 1.7 | <0.10 | (c) | <0.10 | 0.32 | 1.1 | 1.7 | 1.7 |
| Phosphorus, total as phosphorus | 49 | .01 | 49 | .23 | .02 | .08 | .02 | .05 | .07 | .09 | .13 |

**Lake Pontchartrain 2.2 miles north-northwest of Chef Menteur, Louisiana, April-June 1979 (Spillway opened)—Continued**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| Biological constituents--bacteria (colonies per 100 milliliters) | | | | | | | | | | | |
| Fecal coliform | 49 | 4 | 26 | 160 | <4 | (c) | <4 | <4 | 4 | 12 | 28 |
| Trace metals (micrograms per liter) | | | | | | | | | | | |
| Copper, dissolved | 49 | 2 | 11 | 3 | <2 | (c) | <2 | <2 | <2 | <2 | 3 |
| Iron, dissolved | 49 | 10 | 15 | 70 | <10 | (c) | <10 | <10 | <10 | 20 | 30 |
| Lead, dissolved | 49 | 2 | 2 | 2 | <2 | (c) | <2 | <2 | <2 | <2 | <2 |
| Zinc, dissolved | 49 | 20 | 3 | 20 | <20 | (c) | <20 | <20 | <20 | <20 | 20 |
| Organic compounds (micrograms per liter) | | | | | | | | | | | |
| DDT, total | 38 | 0.001 | 1 | 0.005 | <0.001 | (c) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB, total | 38 | .1 | 1 | .1 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Diazinon, total | 38 | .01 | 19 | .03 | <.01 | (c) | <.01 | <.01 | <.01 | .01 | .02 |
| Lindane, total | 38 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Chlordane, total | 38 | .1 | 0 | <.1 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Malathion, total | 38 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Endrin, total | 38 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Parathion, total | 38 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Dieldrin, total | 38 | .001 | 5 | .002 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | .001 |
| Endosulfan, total | 38 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| 2,4-D, total | 26 | .01 | 26 | .05 | .01 | (c) | .01 | .02 | .02 | .03 | .05 |

**Table 8.** Statistical summary of water-quality data for the Bonnet Carré Spillway, Louisiana

**Lake Pontchartrain at mouth of Bayou Lacombe near Lacombe, Louisiana, June 1974-January 1981 (Spillway closed)**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| **Physical properties** | | | | | | | | | | | |
| Specific conductance | 111 | (a) | (a) | 10,100 | 82 | 4,280 | 530 | 2,500 | 3,790 | 6,070 | 9,530 |
| pH (standard units) | 112 | (a) | (a) | 8.1 | 6.0 | 7.3 | 6.6 | 7.1 | 7.3 | 7.5 | 7.7 |
| Water temperature | 44 | (a) | (a) | 30.5 | 8.0 | 20.7 | 10.0 | 16.5 | 21.8 | 25.0 | 30.2 |
| Dissolved oxygen (milligrams per liter) | 110 | (a) | (a) | 14.2 | 3.9 | 8.4 | 5.0 | 7.5 | 8.3 | 9.7 | 11.0 |
| **Major cations (milligrams per liter)** | | | | | | | | | | | |
| Calcium, dissolved | 99 | 0.01 | 99 | 80 | 3.1 | 35 | 5.6 | 22 | 31 | 47 | 73 |
| Magnesium, dissolved | 99 | .01 | 99 | 220 | 4.2 | 86 | 8.4 | 48 | 73 | 120 | 210 |
| Sodium, dissolved | 35 | .01 | 35 | 1,800 | 50 | 810 | 68 | 470 | 820 | 1,100 | 1,800 |
| Potassium, dissolved | 35 | .01 | 35 | 71 | 3.3 | 36 | 3.5 | 24 | 38 | 47 | 70 |
| **Major anions (milligrams per liter)** | | | | | | | | | | | |
| Alkalinity, total as $CaCO_3$ | 112 | 1 | 112 | 170 | 6 | 35 | 15 | 25 | 34 | 41 | 54 |
| Sulfate, dissolved | 111 | .1 | 111 | 450 | 11 | 180 | 23 | 100 | 160 | 260 | 410 |
| Chloride, dissolved | 111 | .1 | 111 | 3,400 | 60 | 1,300 | 140 | 720 | 1,100 | 1,800 | 3,000 |
| **Nutrients (milligrams per liter)** | | | | | | | | | | | |
| Nitrogen, ammonia plus organic, total as nitrogen | 3 | 0.01 | 3 | 0.82 | 0.34 | (b) | (b) | (b) | (b) | (b) | (b) |
| Nitrogen, nitrite plus nitrate, total as nitrogen | 102 | .10 | 14 | .31 | <.10 | (c) | <.10 | <.10 | <.10 | <.10 | .17 |
| Phosphorus, total as phosphorus | 110 | .01 | 108 | 2.5 | <.01 | (c) | .02 | .03 | .04 | .06 | .32 |

**Lake Pontchartrain at mouth of Bayou Lacombe near Lacombe, Louisiana, June 1974-January 1981 (Spillway closed)—Continued**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| Biological constituents--bacteria (colonies per 100 milliliters) | | | | | | | | | | | |
| Fecal coliform | 47 | 5 | 23 | 680 | <5 | (c) | <5 | <5 | <5 | 32 | 220 |
| Trace metals (micrograms per liter) | | | | | | | | | | | |
| Copper, dissolved | 63 | 2 | 45 | 9 | <2 | (c) | <2 | <2 | 2 | 3 | 6 |
| Iron, dissolved | 112 | 10 | 82 | 330 | <10 | (c) | <10 | <10 | 30 | 100 | 230 |
| Lead, dissolved | 112 | 2 | 24 | 12 | <2 | (c) | <2 | <2 | <2 | <2 | 4 |
| Zinc, dissolved | 112 | 20 | 27 | 40 | <20 | (c) | <20 | <20 | <20 | <20 | 20 |
| Organic compounds (micrograms per liter) | | | | | | | | | | | |
| DDT, total | 111 | 0.001 | 1 | 0.001 | <0.001 | (c) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB, total | 111 | .1 | 1 | .1 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Diazinon, total | 77 | .01 | 20 | .02 | <.01 | (c) | <.01 | <.01 | <.01 | .01 | .01 |
| Lindane, total | 111 | .001 | 9 | .002 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | .001 |
| Chlordane, total | 111 | .1 | 0 | <.1 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Malathion, total | 77 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Endrin, total | 111 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Parathion, total | 77 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Dieldrin, total | 111 | .001 | 2 | .010 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | .001 |
| Endosulfan, total | 41 | .001 | 0 | <.001 | <.001 | (c) | <.01 | <.001 | <.001 | <.001 | <.001 |
| 2,4-D, total | 48 | .01 | 31 | .30 | <.01 | (c) | <.01 | <.01 | .02 | .03 | .04 |

**Table 8.** Statistical summary of water-quality data for the Bonnet Carré Spillway, Louisiana

**Lake Pontchartrain at mouth of Bayou Lacombe near Lacombe, Louisiana, April-June 1979 (Spillway opened)**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| **Physical properties** | | | | | | | | | | | |
| Specific conductance | 47 | (a) | (a) | 3,590 | 930 | 1,800 | 1,070 | 1,270 | 1,440 | 1,990 | 3,550 |
| pH (standard units) | 47 | (a) | (a) | 8.3 | 6.9 | 7.5 | 7.0 | 7.4 | 7.5 | 7.7 | 8.2 |
| Dissolved oxygen (milligrams per liter) | 47 | (a) | (a) | 11.8 | 5.2 | 7.9 | 5.9 | 7.3 | 7.8 | 8.3 | 9.8 |
| **Major cations (milligrams per liter)** | | | | | | | | | | | |
| Calcium, dissolved | 45 | 0.01 | 45 | 48 | 12 | 23 | 15 | 19 | 21 | 26 | 34 |
| Magnesium, dissolved | 45 | .01 | 45 | 70 | 16 | 34 | 21 | 24 | 26 | 38 | 67 |
| Sodium, dissolved | 45 | .01 | 45 | 570 | 140 | 280 | 150 | 190 | 220 | 320 | 550 |
| Potassium, dissolved | 45 | .01 | 45 | 26 | 5.7 | 14 | 7.4 | 9.6 | 11 | 16 | 26 |
| **Major anions (milligrams per liter)** | | | | | | | | | | | |
| Alkalinity, total as $CaCO_3$ | 47 | 1 | 47 | 56 | 20 | 39 | 22 | 33 | 39 | 44 | 55 |
| Sulfate, dissolved | 45 | .1 | 45 | 160 | 36 | 82 | 46 | 60 | 70 | 90 | 160 |
| Chloride, dissolved | 45 | .1 | 45 | 1,000 | 240 | 490 | 260 | 340 | 370 | 570 | 1,000 |
| **Nutrients (milligrams per liter)** | | | | | | | | | | | |
| Nitrogen, nitrite plus nitrate, total as nitrogen | 46 | 0.10 | 31 | 1.6 | <0.10 | (c) | <0.10 | <0.10 | 0.22 | 0.43 | 0.94 |
| Phosphorus, total as phosphorus | 46 | .01 | 46 | .08 | .01 | .04 | .02 | .03 | .04 | .04 | .07 |

**Lake Pontchartrain at mouth of Bayou Lacombe near Lacombe, Louisiana, April-June 1979 (Spillway opened)—Continued**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| Biological constituents--bacteria (colonies per 100 milliliters) | | | | | | | | | | | |
| Fecal coliform | 46 | 10 | 12 | 270 | <10 | (c) | <10 | <10 | <10 | 10 | 48 |
| Trace metals (micrograms per liter) | | | | | | | | | | | |
| Copper, dissolved | 45 | 2 | 15 | 4 | <2 | (c) | <2 | <2 | <2 | 2 | 3 |
| Iron, dissolved | 45 | 10 | 24 | 270 | <10 | (c) | <10 | <10 | 20 | 30 | 140 |
| Lead, dissolved | 45 | 2 | 0 | <2 | <2 | (c) | <2 | <2 | <2 | <2 | <2 |
| Zinc, dissolved | 45 | 20 | 1 | 20 | <20 | (c) | <20 | <20 | <20 | <20 | <20 |
| Organic compounds (micrograms per liter) | | | | | | | | | | | |
| DDT, total | 39 | 0.001 | 0 | <0.001 | <0.001 | (c) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB, total | 39 | .1 | 0 | <.1 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Diazinon, total | 39 | .01 | 13 | .01 | <.01 | (c) | <.01 | <.01 | <.01 | .01 | .01 |
| Lindane, total | 39 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Chlordane, total | 39 | .1 | 0 | <.1 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Malathion, total | 39 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Endrin, total | 39 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Parathion, total | 39 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Dieldrin, total | 39 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Endosulfan, total | 39 | .001 | 0 | <.001 | <.001 | (c) | <.01 | <.001 | <.001 | <.001 | <.001 |
| 2,4-D, total | 28 | .01 | 25 | .31 | <.01 | (c) | <.01 | .01 | .02 | .03 | .30 |

**Table 8.** Statistical summary of water-quality data for the Bonnet Carré Spillway, Louisiana

**Lake Pontchartrain at Pass Manchac near Manchac, Louisiana, June 1974-July 1984 (Spillway closed)**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| **Physical properties** | | | | | | | | | | | |
| Specific conductance | 126 | (a) | (a) | 8,940 | 55 | 1,840 | 152 | 571 | 1,360 | 2,450 | 5,080 |
| pH (standard units) | 126 | (a) | (a) | 7.9 | 6.1 | 7.1 | 6.6 | 7.0 | 7.1 | 7.4 | 7.7 |
| Water temperature | 57 | (a) | (a) | 33.0 | 5.0 | 20.5 | 8.4 | 16.0 | 21.5 | 25.2 | 31.1 |
| Dissolved oxygen (milligrams per liter) | 122 | (a) | (a) | 13.0 | 5.4 | 8.4 | 6.3 | 7.3 | 8.3 | 9.2 | 11.3 |
| **Major cations (milligrams per liter)** | | | | | | | | | | | |
| Calcium, dissolved | 112 | 0.01 | 112 | 90 | 1.4 | 18 | 3.1 | 8.4 | 14 | 24 | 47 |
| Magnesium, dissolved | 112 | .01 | 112 | 200 | 1.8 | 37 | 3.4 | 11 | 24 | 53 | 110 |
| Sodium, dissolved | 48 | .01 | 48 | 1,600 | 9.6 | 360 | 19 | 91 | 260 | 530 | 1,200 |
| Potassium, dissolved | 48 | .01 | 48 | 52 | 1.7 | 16 | 2.1 | 5.8 | 13 | 23 | 45 |
| **Major anions (milligrams per liter)** | | | | | | | | | | | |
| Alkalinity, total as $CaCO_3$ | 126 | 1 | 126 | 48 | 10 | 25 | 13 | 20 | 25 | 30 | 40 |
| Sulfate, dissolved | 126 | .1 | 126 | 400 | 5.3 | 79 | 7.5 | 24 | 53 | 110 | 220 |
| Chloride, dissolved | 126 | .1 | 126 | 2,800 | 13 | 520 | 32 | 140 | 360 | 680 | 1,500 |
| **Nutrients (milligrams per liter)** | | | | | | | | | | | |
| Nitrogen, ammonia plus organic, total as nitrogen | 3 | 0.01 | 3 | 1.1 | 0.5 | (b) | (b) | (b) | (b) | (b) | (b) |
| Nitrogen, nitrite plus nitrate, total as nitrogen | 117 | .10 | 84 | .60 | <.10 | (c) | <.10 | .10 | .16 | .24 | .36 |
| Phosphorus, total as phosphorus | 126 | .01 | 124 | 4.2 | <.01 | (c) | .01 | .06 | .09 | .13 | .31 |

**Lake Pontchartrain at Pass Manchac near Manchac, Louisiana, June 1974-July 1984 (Spillway closed)—Continued**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| Biological constituents--bacteria (colonies per 100 milliliters) | | | | | | | | | | | |
| Fecal coliform | 60 | 4 | 47 | 3,000 | <4 | (c) | <4 | 4 | 15 | 42 | 150 |
| Fecal streptococcus | 1 | 1 | 1 | 110 | (d) | (b) | (b) | (b) | (b) | (b) | (b) |
| Trace metals (micrograms per liter) | | | | | | | | | | | |
| Copper, dissolved | 75 | 2 | 64 | 23 | <2 | (c) | <2 | 2 | 3 | 5 | 8 |
| Iron, dissolved | 125 | 10 | 109 | 480 | <10 | (c) | <10 | 30 | 70 | 120 | 220 |
| Lead, dissolved | 124 | 2 | 31 | 27 | <2 | (c) | <2 | <2 | <2 | <2 | 5 |
| Zinc, dissolved | 124 | 20 | 27 | 54 | <20 | (c) | <20 | <20 | <20 | <20 | 30 |
| Organic compounds (micrograms per liter) | | | | | | | | | | | |
| DDT, total | 125 | 0.001 | 1 | 0.001 | <0.001 | (c) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB, total | 125 | .1 | 1 | .2 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Diazinon, total | 90 | .01 | 32 | .06 | <.01 | (c) | <.01 | <.01 | <.01 | .01 | .02 |
| Lindane, total | 125 | .001 | 7 | .002 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | .001 |
| Chlordane, total | 125 | .1 | 1 | .7 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Malathion, total | 90 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Endrin, total | 125 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Parathion, total | 89 | .01 | 1 | .06 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Dieldrin, total | 125 | .001 | 6 | .005 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Endosulfan, total | 55 | .001 | 0 | <.001 | <.001 | (c) | <.01 | <.001 | <.001 | <.001 | <.001 |
| 2,4-D, total | 61 | .01 | 52 | .14 | <.01 | (c) | <.01 | .02 | .03 | .04 | .07 |

**Table 8.** Statistical summary of water-quality data for the Bonnet Carré Spillway, Louisiana

**Lake Pontchartrain at Pass Manchac near Manchac, Louisiana, June 1974-July 1984 (Spillway opened)**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| **Physical properties** | | | | | | | | | | | |
| Specific conductance | 51 | (a) | (a) | 3,510 | 110 | 465 | 144 | 230 | 303 | 418 | 1,580 |
| pH (standard units) | 51 | (a) | (a) | 8.0 | 6.5 | 7.1 | 6.5 | 6.8 | 7.0 | 7.5 | 7.8 |
| Dissolved oxygen (milligrams per liter) | 51 | (a) | (a) | 8.7 | 4.4 | 7.0 | 5.4 | 6.6 | 7.0 | 7.5 | 7.9 |
| **Major cations (milligrams per liter)** | | | | | | | | | | | |
| Calcium, dissolved | 51 | 0.01 | 51 | 33 | 3.6 | 11 | 4.5 | 5.9 | 7.8 | 16 | 26 |
| Magnesium, dissolved | 51 | .01 | 51 | 40 | 1.2 | 9.1 | 2.7 | 4.8 | 7.2 | 11 | 29 |
| Sodium, dissolved | 51 | .01 | 51 | 320 | 14 | 57 | 17 | 23 | 33 | 54 | 250 |
| Potassium, dissolved | 51 | .01 | 51 | 16 | 2.5 | 4.3 | 2.5 | 3.0 | 3.3 | 4.4 | 12 |
| **Major anions (milligrams per liter)** | | | | | | | | | | | |
| Alkalinity, total as $CaCO_3$ | 51 | 1 | 51 | 87 | 11 | 30 | 13 | 18 | 21 | 38 | 73 |
| Sulfate, dissolved | 51 | .1 | 51 | 97 | 6.6 | 25 | 6.9 | 12 | 18 | 36 | 71 |
| Chloride, dissolved | 51 | .1 | 51 | 540 | 20 | 96 | 27 | 35 | 52 | 88 | 444 |
| **Nutrients (milligrams per liter)** | | | | | | | | | | | |
| Nitrogen, nitrite plus nitrate, total as nitrogen | 51 | 0.01 | 51 | 1.4 | 0.08 | 0.39 | 0.10 | 0.15 | 0.23 | 0.45 | 1.1 |
| Phosphorus, total as phosphorus | 51 | .01 | 51 | .21 | .03 | .10 | .05 | .08 | .09 | .11 | .14 |

**Lake Pontchartrain at Pass Manchac near Manchac, Louisiana, April-June 1979 (Spillway opened)—Continued**

| Water-quality property or constituent | Number of analyses | Reporting level | Number of analyses greater than or equal to reporting level | Maximum | Minimum | Mean | Percentiles | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 5th | 25th | 50th (median) | 75th | 95th |
| Biological constituents--bacteria (colonies per 100 milliliters) | | | | | | | | | | | |
| Fecal coliform | 51 | 13 | 15 | 55 | <13 | (c) | <13 | <13 | <13 | 16 | 34 |
| Trace metals (micrograms per liter) | | | | | | | | | | | |
| Copper, dissolved | 51 | 2 | 24 | 7 | <2 | (c) | <2 | <2 | <2 | 2 | 4 |
| Iron, dissolved | 51 | 10 | 46 | 490 | <10 | (c) | <10 | 50 | 150 | 220 | 380 |
| Lead, dissolved | 51 | 2 | 3 | 2 | <2 | (c) | <2 | <2 | <2 | <2 | 2 |
| Zinc, dissolved | 51 | 20 | 0 | <20 | <20 | (c) | <20 | <20 | <20 | <20 | <20 |
| Organic compounds (micrograms per liter) | | | | | | | | | | | |
| DDT, total | 45 | 0.001 | 0 | <0.001 | <0.001 | (c) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB, total | 45 | .1 | 1 | .6 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Diazinon, total | 45 | .01 | 20 | .01 | <.01 | (c) | <.01 | <.01 | <.01 | .01 | .01 |
| Lindane, total | 45 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Chlordane, total | 45 | .1 | 0 | <.1 | <.1 | (c) | <.1 | <.1 | <.1 | <.1 | <.1 |
| Malathion, total | 45 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Endrin, total | 45 | .001 | 0 | <.001 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Parathion, total | 45 | .01 | 0 | <.01 | <.01 | (c) | <.01 | <.01 | <.01 | <.01 | <.01 |
| Dieldrin, total | 45 | .001 | 1 | .004 | <.001 | (c) | <.001 | <.001 | <.001 | <.001 | <.001 |
| Endosulfan, total | 45 | .001 | 0 | <.001 | <.001 | (c) | <.01 | <.001 | <.001 | <.001 | <.001 |
| 2,4-D, total | 35 | .01 | 35 | .11 | <.01 | (c) | .01 | .03 | .05 | .06 | .10 |