# WATER-QUALITY OF LAKE CONROE ON THE WEST FORK SAN JACINTO RIVER, SOUTHEASTERN TEXAS

By Marvin W. Flugrath, Freeman L. Andrews and Emma M. McPherson

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CONTENTS

ILLUSTRATIONS

TABLES

## METRIC CONVERSIONS

Factors for converting inch-pound units to metric equivalents are:

| From | Multiply by | To obtain |
|---|---|---|
| acre | 4,047 | square meter |
| acre-foot | 0.001233 | cubic hectometer |
| cubic foot per second | 0.02832 | cubic meter per second |
| foot | 0.3048 | meter |
| mile | 1.609 | kilometer |
| square mile | 2.590 | square kilometer |

Temperature in degrees Fahrenheit (°F) can be converted to degrees Celsius (°C) as follows:

$$°F = 1.8(°C) + 32$$

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## ABSTRACT

Thermal stratification in Lake Conroe usually begins to develop in March and persists until October. Thermal stratification has resulted in significant seasonal and areal variations in the concentrations of dissolved oxygen, dissolved iron, dissolved manganese, total inorganic nitrogen, and total phosphorus.

Volume-weighted-average concentration of dissolved solids generally were less than 120 milligrams per liter, those of dissolved chloride generally were less than 22 milligrams per liter, and those of dissolved sulfate were less than 10 milligrams per liter in Lake Conroe during the 1973-82 water years. The concentrations of each of these constituents usually were largest during the summer. The water was moderately hard (hardness greater than 60 but less than 120 milligrams per liter as calcium carbonate).

The average concentrations of dissolved oxygen at most sites in the downstream one-half of the lake averaged 3.2 milligrams per liter during summer stratification and more than 9 milligrams per liter during winter circulation. The concentrations at most sites in the headwaters of the lake averaged less than 4.3 milligrams per liter during the summer and less than 7.9 milligrams per liter during the winter. Water below depths of 25 to 35 feet usually contained less than 1 milligram per liter dissolved oxygen during the summer.

The concentrations of dissolved iron and dissolved manganese in water throughout the reservoir during winter circulation and in water near the reservoir surface during summer stratification were less than 100 micrograms per liter. The greatest concentration occurred during summer stagnation near the reservoir bottom at site $A_C$, a deep site near Lake Conroe Dam.

The concentrations of total inorganic nitrogen and total phosphorus were greatest during summer stratification in water near the reservoir bottom at deep sites. No accumulation of these constituents within the reservoir was detected during the study.

The densities and composition of algal populations varied seasonally. Algal densities were greatest during the summer with blue-green algae being the predominant phylum.

## INTRODUCTION

Since October 1961, the U.S. Geological Survey periodically has made comprehensive water-quality surveys of selected lakes and reservoirs in Texas as part of a continuing cooperative program with Federal, State, and local agencies to inventory the surface-water resources of the State. During the 1973 water year, the program was expanded to include water-quality surveys on Lake Conroe in cooperation with the city of Houston, the San Jacinto River Authority and the Texas Department of Water Resources. From 1973 to 1982, 28 comprehensive water-quality surveys were conducted to coincide with the winter, spring, and summer seasons. Sampling sites were located along seven traverses labeled A through G (fig. 1). Sampling sites at the deepest point along the traverse were identified by the subscript "c" for channel. Sites to the left of the channel were identified by the subscript "l".

During each survey, specific conductance, temperature, pH, and dissolved-oxygen concentration were measured at the water surface, near the reservoir bottom, and at intervening depth intervals of about 10 feet for 1 to 2 sites in each traverse. On the basis of these measurements, samples were collected to define areal variations and patterns of stratification of major ions (dissolved cations and anions) nutrients (total inorganic nitrogen and total phosphorus), and trace elements (dissolved iron, dissolved manganese and other selected dissolved trace elements). Generally, samples for determinations of major ions were collected at the water surface and near the reservoir bottom at sites near the dam, near midreservoir, and in the headwaters of the reservoir. Samples for determination of nutrients, iron, and manganese were collected at the water surface, near the reservior bottom, and above and below the thermocline (if a thermocline existed), or at mid-depth at all sampling sites along each traverse. Beginning in March 1978, samples for phytoplankton analysis were collected near the dam and in the headwaters of the reservoir at a depth corresponding to one-half the depth of light penetration (as measured by Secchi-disk transparency).

### Purpose and Scope

The purpose of this report is to summarize water-quality data collected from September 1973 to September 1982, and to discuss the variations of selected water-quality constituents and properties of water in Lake Conroe. This report was prepared by the U.S. Geological Survey in cooperation with the city of Houston under an agreement separate from those under which the water-quality surveys were made. The data compilation and analysis are limited to those data collected by the Geological Survey. These data are presented in tables 1 to 28 at the end of this report.

### Description of Lake Conroe

Because of the rapid population increase in Houston during the last several decades, which was one of the largest population increases in the Nation, additional water supplies were needed to meet the increased demand. Lake Conroe (fig. 1) was constructed by the city of Houston, the San Jacinto River Authority, and the Texas Department of Water Resources to provide storage for domestic and industrial water supplies, as well as to provide a recreational facil-

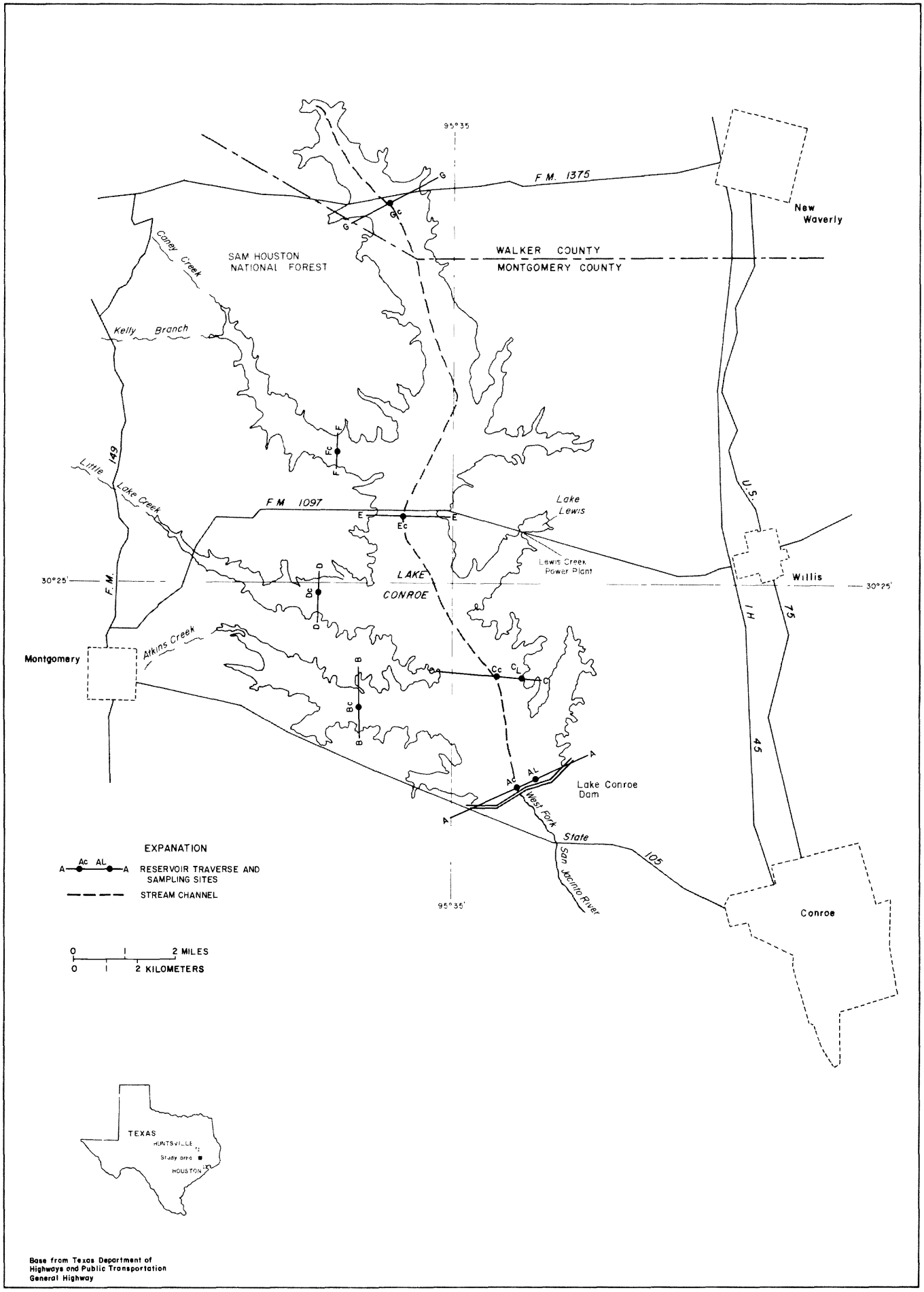


Figure 1.--Location of Lake Conroe and the water-quality data-collection sites.

ity for the Houston area. Dam construction began in February 1970 and was completed in January 1973. Impoundment of water began in January 1973. The following data regarding the dam and lake were compiled by Dowell and Petty (1973, p. 10.02.0-A):

| Feature | Elevation (feet above mean sea level) | Capacity (acre-feet) |
|---|---|---|
| Top of dam | 212.0 | 706,970 |
| Top gates | 202.5 | 462,640 |
| Normal water level | 201.0 | 430,260 |
| Invert of high outlet | 191.0 | 253,240 |
| Invert of low outlet | 145.0 | 370 |
| Usable conservation storage space | -- | 429,890 |

Lake Conroe, located in Montgomery and Walker Counties, has a surface area of 20,900 acres and an average depth of 40 feet. The lake is situated in the northwestern part of the San Jacinto River watershed. The upper end of the lake is about 15 miles southwest of Huntsville and the dam is 7 miles northwest of Conroe. The northern part of the lake is situated in the Sam Houston National Forest. The drainage area of the lake at the dam is 445 square miles.

Prior to construction of Lake Conroe, much of the San Jacinto River basin was rural and sparsely populated. Since construction of the dam, development in the lower San Jacinto River basin has began and now much of the drainage area downstream from Lake Conroe is urban.

Water diverted from Lake Conroe for industrial and public supply by the city of Houston and Lewis Creek Powerplant is summarized as follows:

| Year | Annual diversions (acre-feet) | |
|---|---|---|
| | City of Houston | Lewis Creek Powerplant |
| 1974 | 4,846 | -- |
| 1975 | 226 | -- |
| 1976 | -- | 2,525 |
| 1977 | 4,510 | 2,280 |
| 1978 | 24,130 | 3,150 |
| 1979 | 17,280 | 3,153 |
| 1980 | 19,060 | 7,020 |
| 1981 | 5,860 | 3,740 |
| 1982 | 4,880 | 4,062 |

## ANALYSIS OF WATER-QUALITY DATA

### Thermal Stratification

Impoundment of water in a reservoir may result in significant changes in the quality of the water. Some of these changes are beneficial; others are detrimental. Many of the detrimental changes are related to thermal stratification--layering of the water due to temperature-induced density differences.

The data in the following table (Weast, 1975, p. F-5) indicate that pure water reaches its maximum density at a temperature of about 4°C and that the difference in density per 1°C is much greater at high temperatures than at low temperatures.

| Temperature (°C) | Density (grams per milliliter) |
|---|---|
| 0.0 | 0.999868 |
| 4.0 | 1.000000 |
| 5.0 | .999992 |
| 10.0 | .999728 |
| 15.0 | .999129 |
| 20.0 | .998234 |
| 25.0 | .997075 |
| 30.0 | .995678 |
| 35.0 | .994063 |

A change in temperature from 29° to 30°C results in a change in density of about 0.0003 g/mL (gram per milliliter), whereas, a change in temperature from 10° to 11°C results in a density change of about 0.0001 g/mL. Stable stratification is common in lakes and reservoirs where the density of the upper and lower strata of water differs by about 0.001 to 0.002 g/mL. Thus, temperature differences of 3° to 4°C during the summer may result in stable stratification.

The degree and duration of thermal stratification is dependent on the geographic location, climatologic conditions, and depth, surface area, and configuration of the lake or reservoir. During the winter, many deep reservoirs in the temperate zone charateristically are isothermal--that is, the water has a uniform temperature and density and circulates freely. With the onset of spring, solar heating warms the incoming water and the water at the reservoir surface, causing a decrease in density. This warm surface water overlies the colder and denser water. As the surface becomes progressively warmer, the density gradient steepens and the depth to which wind can mix the water is decreased. Thus, water in the reservoir commonly is separated into three fairly distinct strata:

(1) The epilimnion--a warm freely circulating surface stratum;
(2) the metalimnion--a middle stratum characterized by a rapid decrease in temperature with increase in depth; and
(2) the hypolimnion--a cold stagnant lower stratum.

Thermal stratification in deep reservoirs usually persists until fall, when a decrease in atmospheric temperature cools both the surface water in the reservoir and inflow from streams. When the temperatures and densities of the epilimnion and metalimnion approach those of the hypolimnion, the resistance to mixing is decreased, and wind action produces a complete mixing or overturn of the water in the lake or reservoirs.

The depth throughout most of Conroe Reservoir outside the drowned channel of the West Fork San Jacinto River, usually is less than 25 feet. Because of shallow depths, the pattern of thermal stratification in much of the reservoir often varies from the classical three-layered pattern.

Water-temperature data for the reservoir during water-quality surveys are shown in tables 1 to 28 and in figure 2. These data are supplemented by monthly-mean air temperature data for the city of Conroe. Air temperatures decrese reapidly during October and November and indicate that fall overturn likely occurs during October and November. The water in the lake is nearly isothermal from November through February. In shallow areas of the reservoir, wind action keeps the water well mixed top to bottom, year round. During March, April, and May warming of the surface water results in a gradual vertical temperature gradient. The temperature gradient usually steepens during June, July, August, and September resulting in three fairly distinct layers in deep areas of the reservoir. However, the temperature and density of water near the bottom in shallow areas during the warm-weather months may approach those at the surface and prevent significant stratification.

## Dissolved Oxygen

Fish and other aquatic organisms require oxygen to maintain the metabolic processes that produce energy for growth and reproduction. Moreover, dissolved oxygen is related to the cycles of some of the chemical constituents dissolved in water and, thus, is one of the most important constituents that affects the quality of water in a reservoir.

Water entering a reservoir contains organic material both from natural sources and from man's waste. Bacterial decomposition of this organic material requires oxygen. Decaying trees, brush, and other pre-existing oxidizable material within the area inundated by the reservoir, and decaying algae and other organic material produced within the reservoir, also exert an oxygen demand.

The distribution of dissolved oxygen in a reservoir is related to thermal stratification. Oxygen enters the surface stratum of a reservoir by plant photosynthesis and by absorption from the atmosphere. During winter circulation, the water is exposed to the atmosphere repeatedly, and dissolved oxygen utilized in the decomposition of organic matter is replenished. However, during spring and summer, thermal stratification results in a decrease of vertical circulation of the water. Oxygen utilized in the decomposition of organic material is not replaced in the deep stratum of the reservoir, and a vertical dissolved-oxygen gradient develops.

Dissolved-oxygen data for Lake Conroe are presented in tables 1 to 28 and in figures 3 and 4. These data show that the dissolved-oxygen gradient usually is large at deep sites during summer stratification when algal growth in the near-surface stratum is prolific. The gradients at all sites decrease greatly during winter circulation.

The concentration of dissolved oxygen in the reservoir varies seasonally and areally. At the deeper sites during summer, dissolved-oxygen concentrations

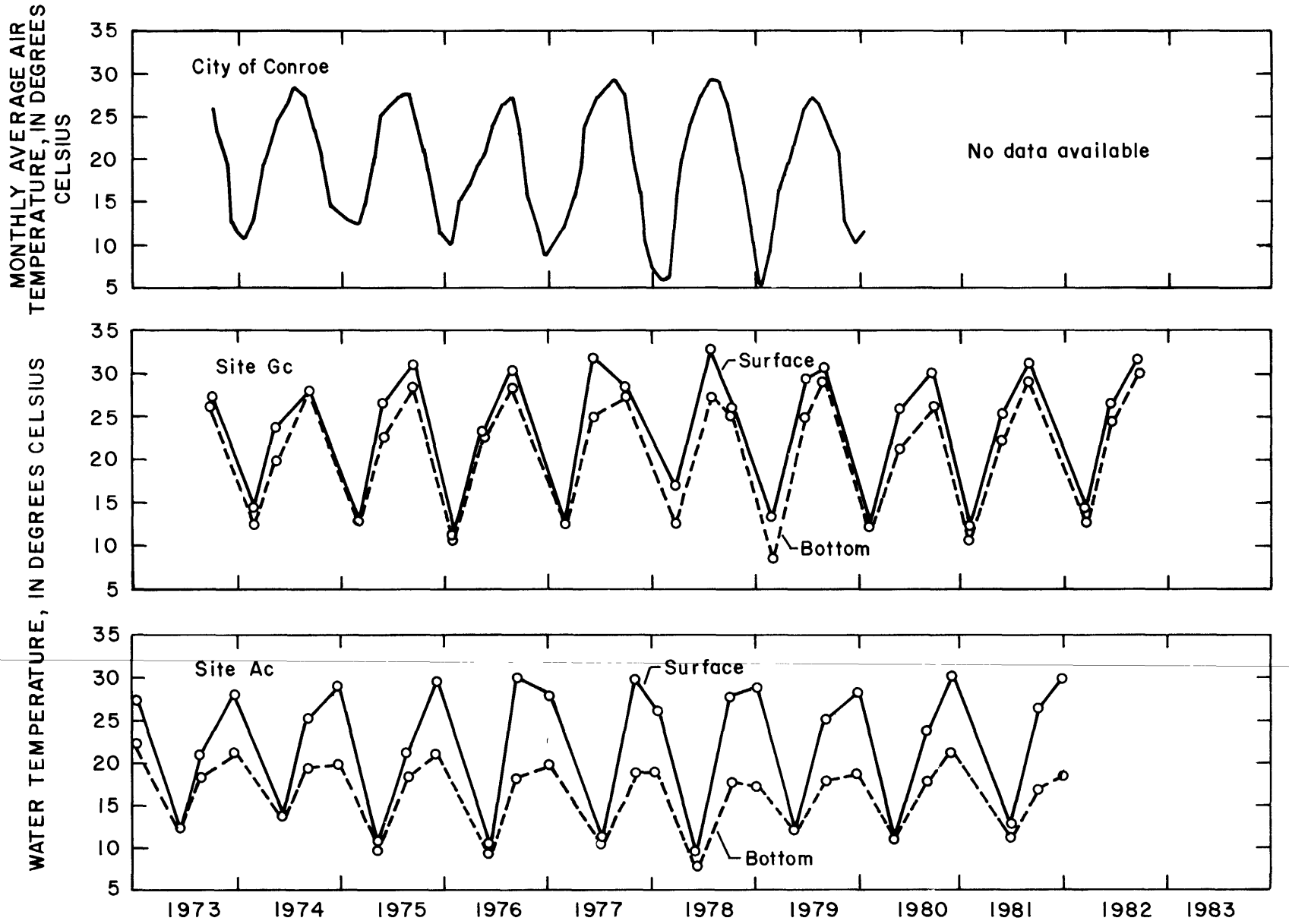


Figure 2.--Variations in monthly average air temperature at Conroe and water temperature at selected sites, September 1973 to September 1982.

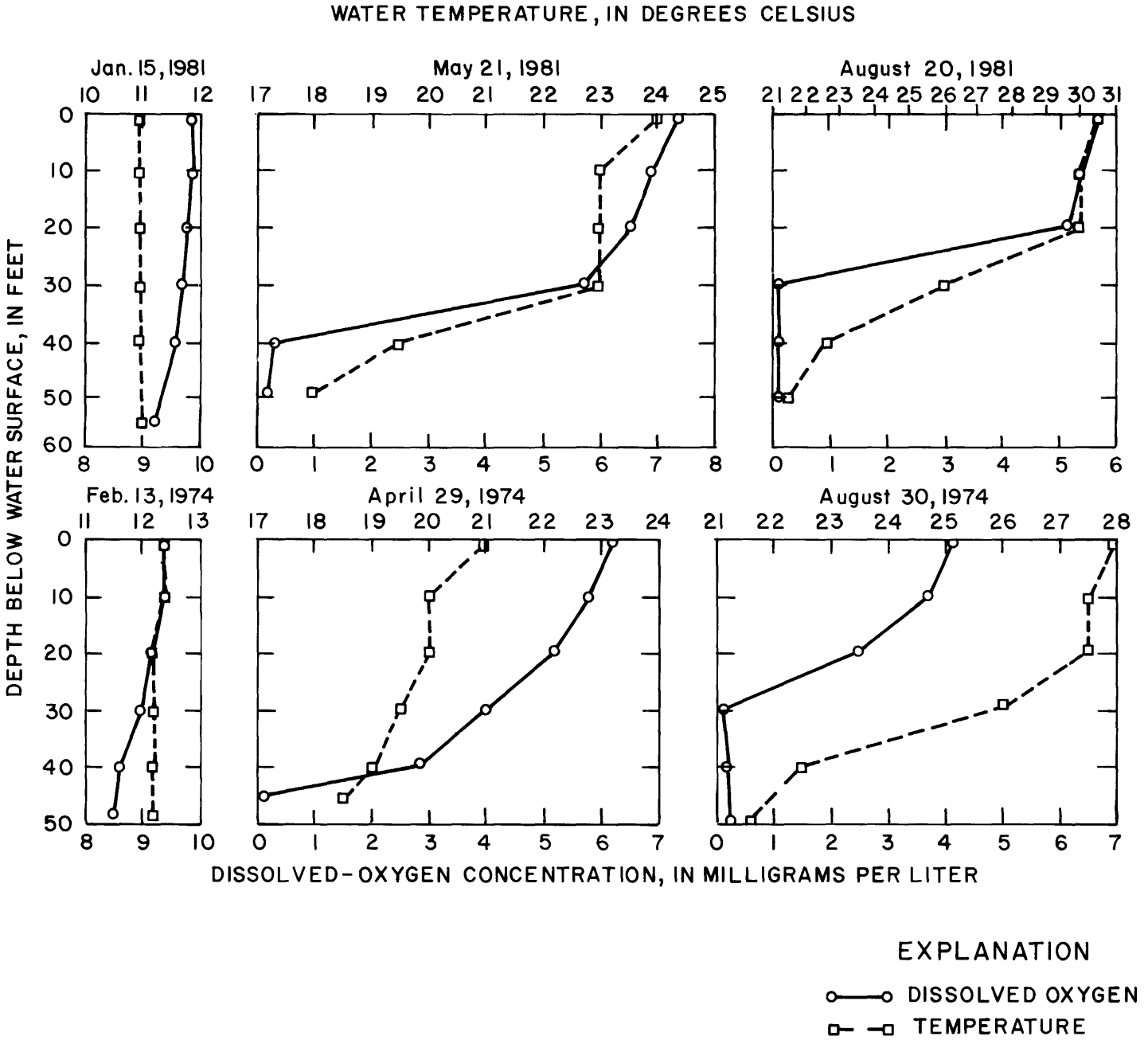


**Figure 3.--Seasonal profiles of water temperature and dissolved-oxygen concentrations at site $A_C$.**

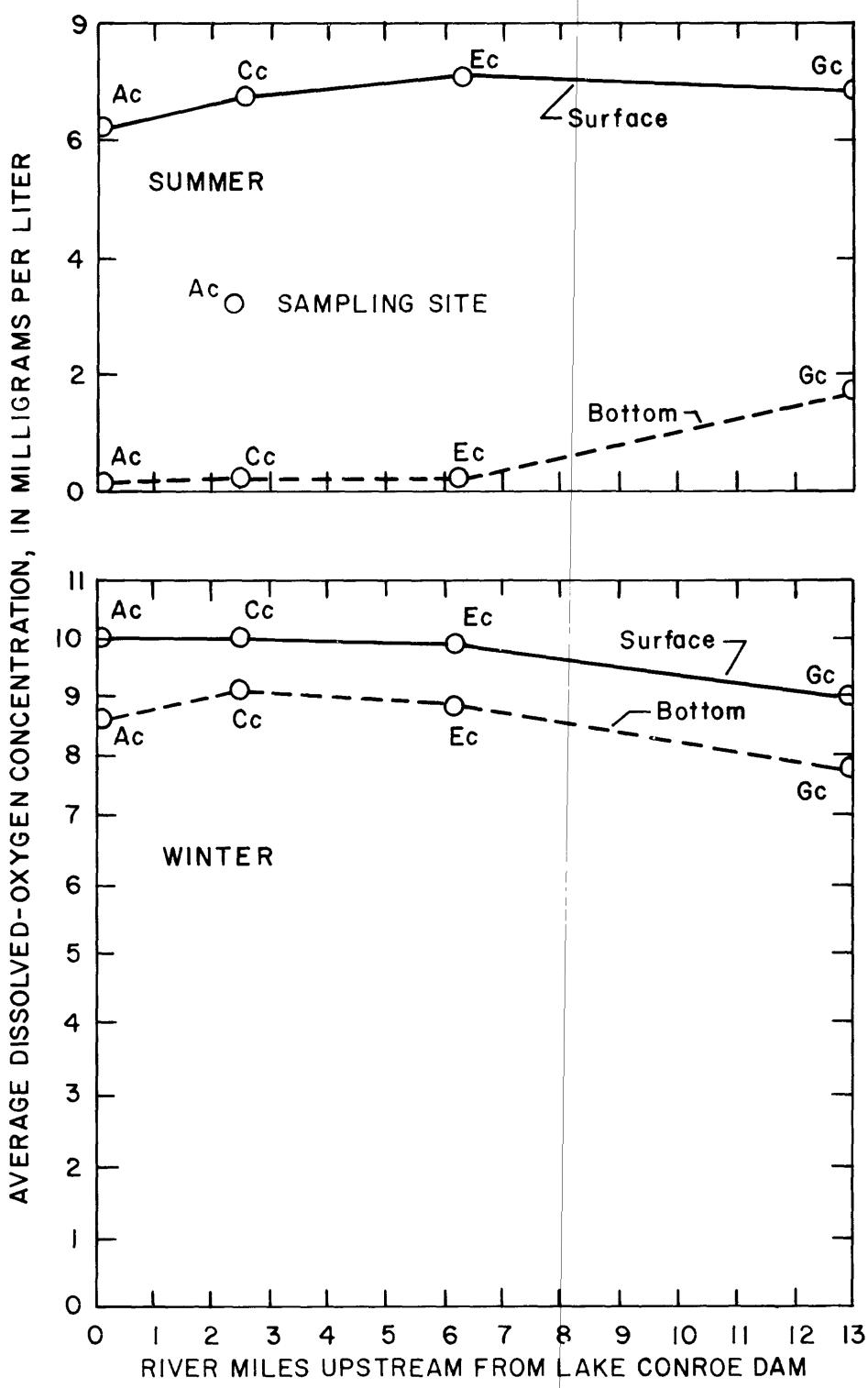


**Figure 4.--Variations of average dissolved-oxygen concentrations during summer and winter surveys.**

range from 0.2 mg/L (milligrams per liter) near the reservoir bottom to more than 9 mg/L at the water surface. During the winter, dissolved-oxygen concentrations ranged from about 6 mg/L near the reservoir bottom to about 12 mg/L at the water surface at the deeper sites. In the headwaters of the reservoir at site $G_C$, a shallow site, dissolved-oxygen concentrations ranged from 4.8 mg/L near the reservoir bottom to 10.8 mg/L at the water surface during the winter and from 0.0 mg/L near the reservoir bottom to 9.4 mg/L at the water surface during the summer.

The average concentration of dissolved oxygen at most sites in the downstream one-half of the lake was 3.2 mg/L during summer stratification and more than 9 mg/L during winter circulation. The average concentration at most sites in the headwaters of the lake was less than 4.3 mg/L during the summer and more than 7.9 mg/L during the winter. Water below depths of 25 to 35 feet usually contain less than 1 mg/L dissolved oxygen during the summer.

Oxygen utilized in the stabilization of unoxidized material from upstream sources and from tributaries by decaying algae and by pre-existing organic material along the bottom of the reservoir is not replaced during summer stratification; and water below depths of 30 feet usually contains less than 1 mg/L dissolved oxygen.

## Dissolved Solids, Chloride, and Sulfate, and Hardness

Some of the more important constituents or properties that affect the utility of a reservoir as a water supply include dissolved solids, dissolved chloride, dissolved sulfate, and hardness. Because the concentrations of these constituents or properties and specific conductance of a water are directly related, onsite measurements of specific conductance can be used to estimate concentrations of some constituents in a reservoir. During each reservoir survey, the specific conductance of water at each sampling site was determined at depth intervals of 5 to 10 feet. These data and results of analyses for dissolved solids, dissolved chloride, dissolved sulfate, and hardness of samples collected at the water surface and near the reservoir bottom at selected sites were used to estimate concentrations of dissolved constituents during each of the reservoir surveys and to compute volume-weighted-average concentrations of selected dissolved constituents within the reservoir (fig. 5) (Wells and Schertz, 1984). Regressions developed were significant at the 95-percent confidence level.

Data in figure 5 show that the volume-weighted-average concentration of dissolved solids (sum of dissolved constituents) generally was less than 120 mg/L, dissolved chloride generally was less than 22 mg/L, and dissolved sulfate was less than 10 mg/L in water in Lake Conroe. The water was moderately hard (hardness greater than 60 but less than 120 mg/L as calcium carbonate, Hem, 1970). The volume-weighted-average concentrations varied in response to rainfall-runoff from the intervening area.

Seasonal and areal variations occurred in the average concentrations of dissolved solids (fig. 6). Average concentrations of dissolved solids in Lake Conroe were slightly greater during the summer than during the winter and average dissolved-solids concentrations generally were greater near the bottom

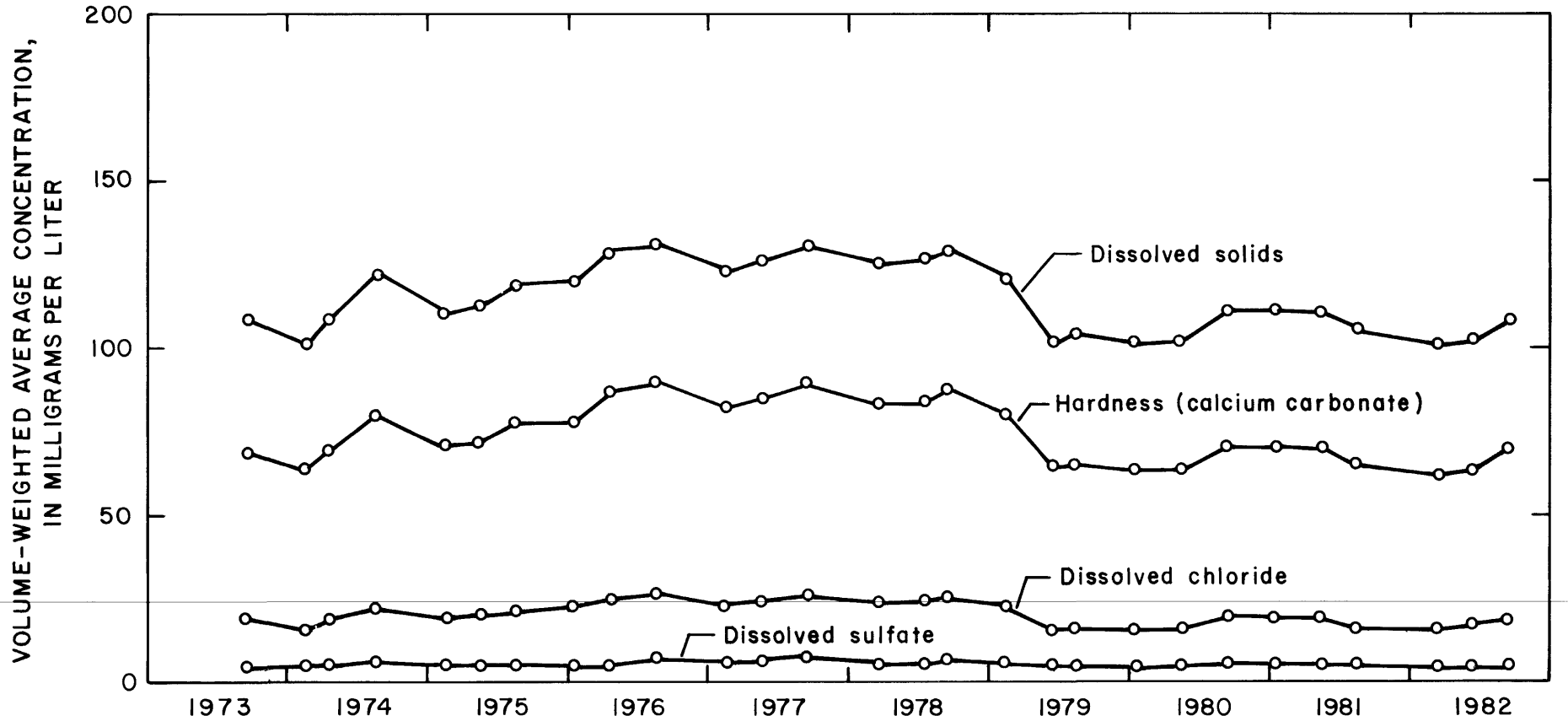


**Figure 5.--Variations in volume-weighted-average concentrations of dissolved solids, dissolved chloride, and dissolved sulfate, and hardness, September 1973 to September 1982.**

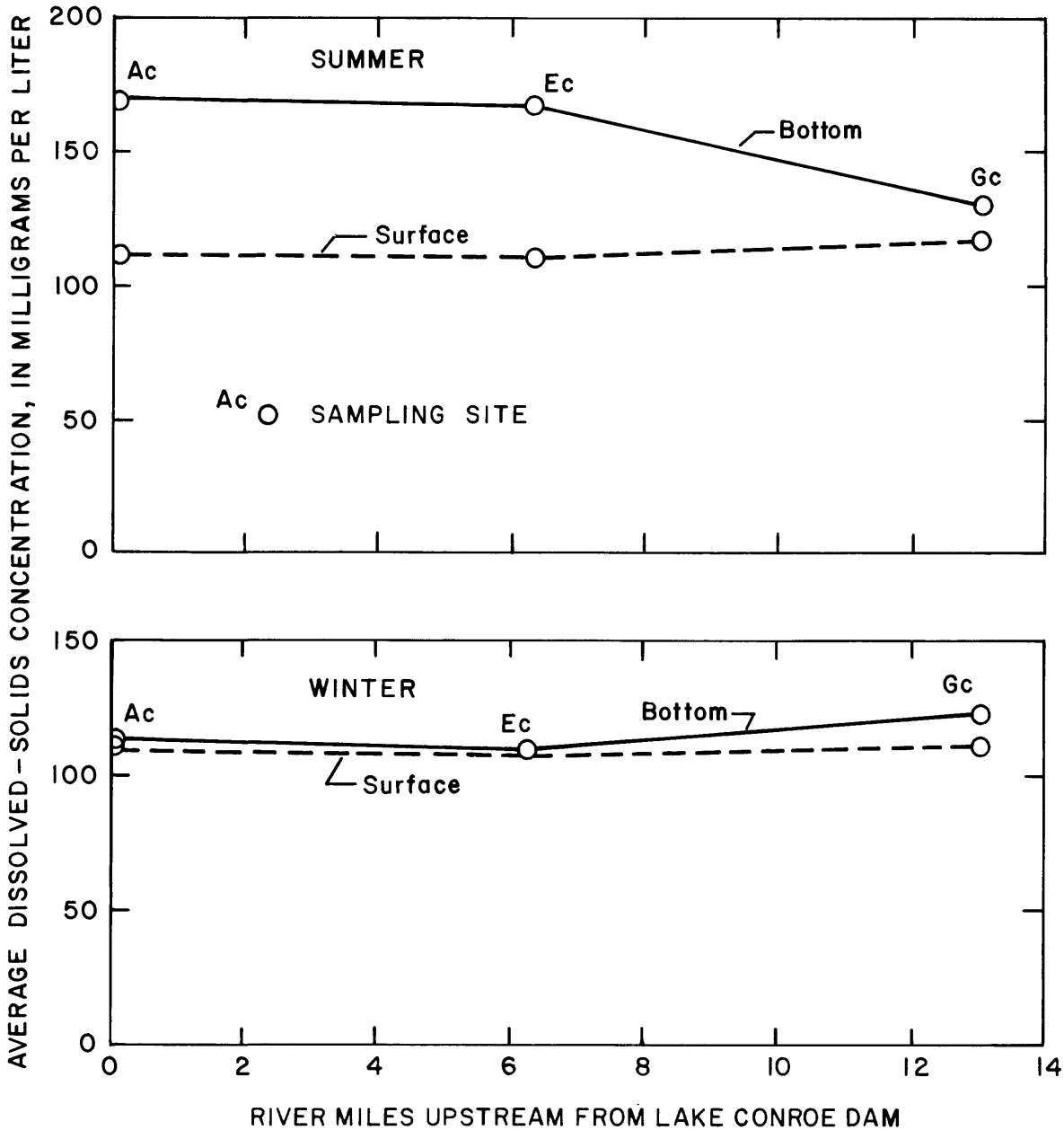


**Figure 6.--Variations of average dissolved-solids concentrations during summer and winter surveys, September 1973 to September 1982.**

of the reservoir than at the water surface. For example, during the summer, the average concentration of dissolved solids at site $A_C$ was 111 mg/L at the water surface and 171 mg/L near the reservoir bottom. During the winter, the average concentration of dissolved solids at site $A_C$ was 112 mg/L at the water surface and 114 mg/L near the reservoir bottom. At site $G_C$ near the headwaters of the lake, the average dissolved-solids concentration during the summer was about 118 mg/L at the water surface and 134 mg/L near the reservoir bottom. During the winter, average dissolved-solids concentrations were about 111 mg/L at the water surface and 124 mg/L near the reservoir bottom.

## Dissolved Trace Elements

Trace elements include those constituents, mostly cations, whose concentrations usually do not exceed 1 mg/L or 1,000 µg/L (micrograms per liter), although in exceptional waters one or more trace elements may be present in comparatively large concentrations and may be major components for that particular water. For the purpose of this report, trace elements include arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, mercury, selenium, silver, and zinc.

The occurrence of most of these trace elements in water is a matter of concern to water users and planners alike because of the potentially harmful effects of excessive concentrations on man and aquatic life. Undesirable concentrations of trace elements in water may render it unsuitable as a public water supply. Many trace elements also may be concentrated at successive steps in the aquatic food chain, making fish and other aquatic life undesirable for human consumption.

### Dissolved Iron and Manganese

The occurence and distribution of dissolved iron and manganese in waters of Lake Conroe are related to the dissolved-oxygen content (fig. 7). During summer stratification the hypolimnion is unable to replenish dissolved oxygen utilized in the decomposition of organic matter. During the period of anaerobic decomposition that follows, reducing conditions often result in the solution of iron and manganese from sediments at the bottom of the reservoir. The concentrations of iron and manganese in the bottom waters at deep sites continue to increase throughout the duration of summer stratification and eventually may reach high values before the overturn. After circulation begins and oxygen is replenished throughout the depth of the reservoir, most of the iron and manganese is oxidized to less soluble forms and settles to the bottom of the reservoir.

Throughout the year, water at the surface of the reservoir and water near the reservoir bottom during winter circulation usually contained less than 100 µg/L dissolved iron, and 100 µg/L dissolved manganese (fig. 8 and 9). However, during summer stratification, the concentrations of both constituents near the bottom of the reservoir are larger near the dam in response to increases in depth and decreases in the concentration of dissolved oxygen.

At site $G_C$, a shallow site in the headwaters of the lake, the iron and the manganese concentrations vary due to stratification and turnover of the reser-

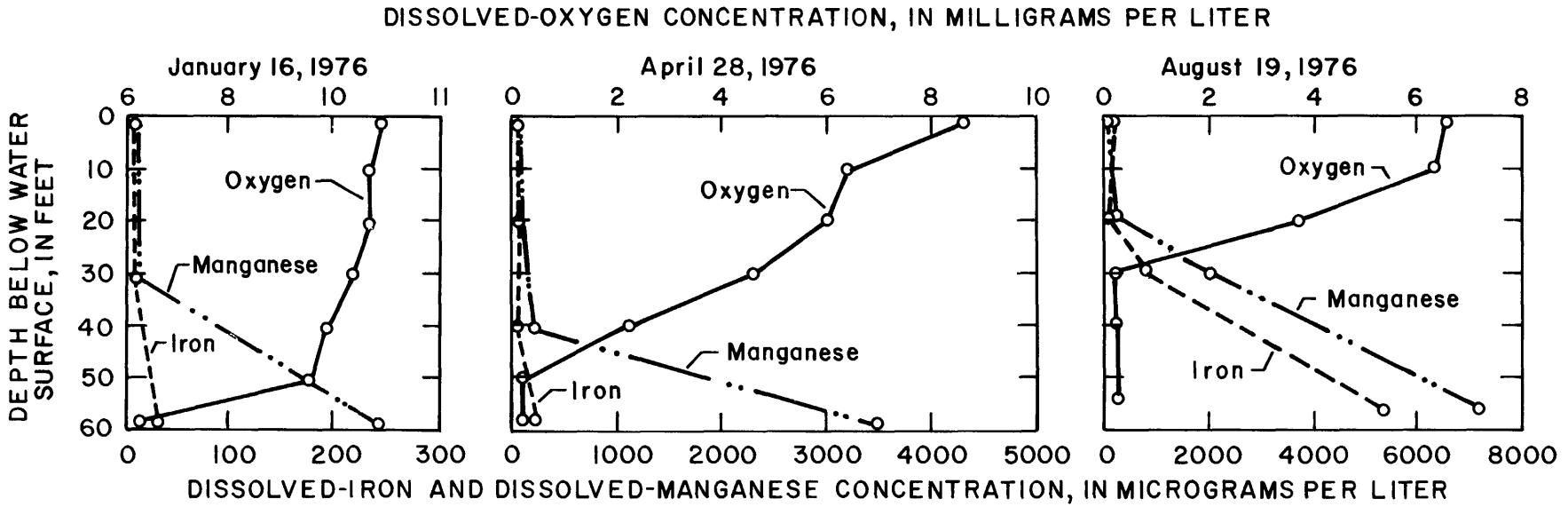


**Figure 7.--Seasonal profiles of dissolved-oxygen, dissolved-iron, and dissolved-manganese concentrations at site $A_C$.**

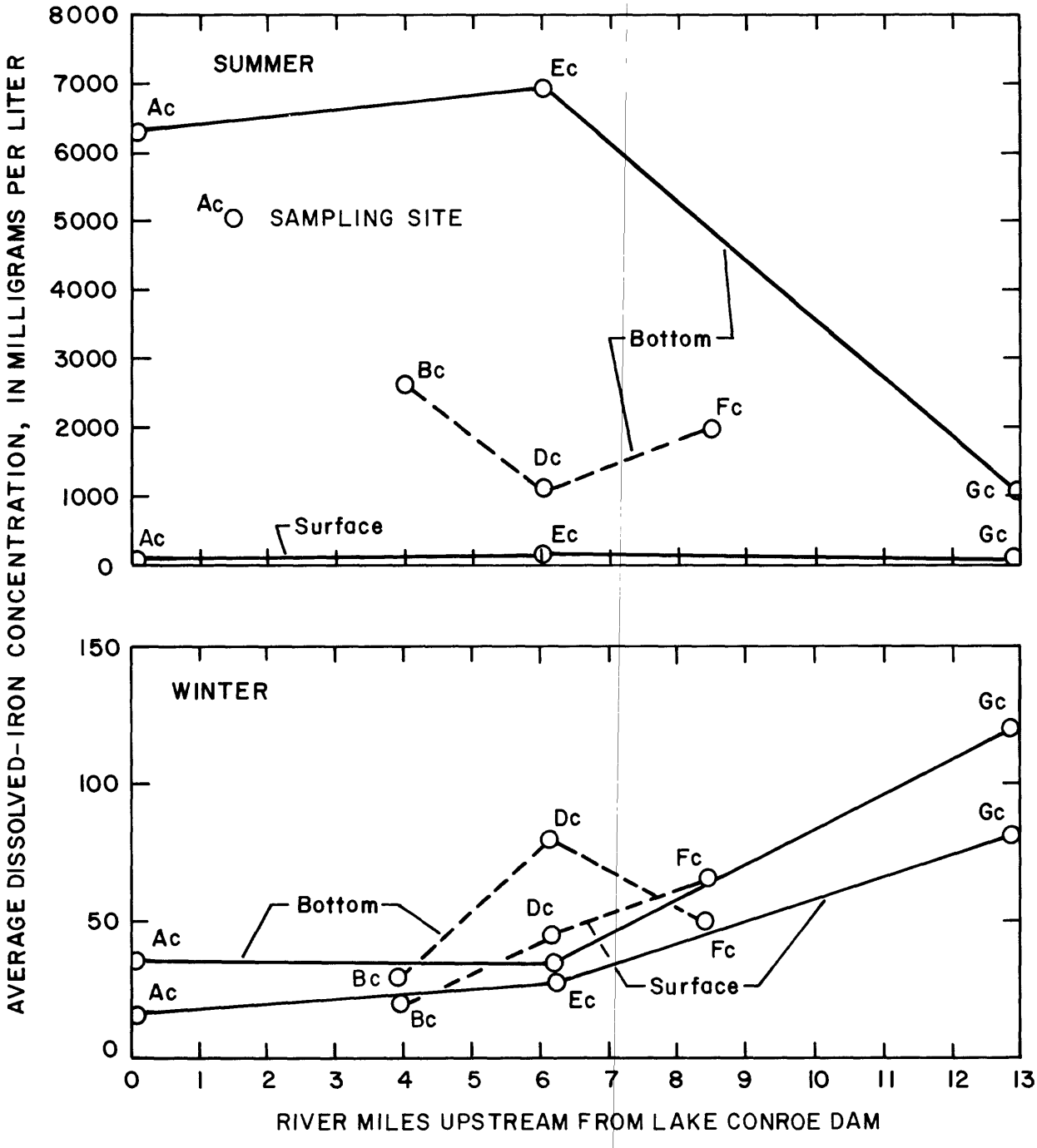


**Figure 8.--Variations of average concentrations of dissolved iron during summer and winter surveys.**

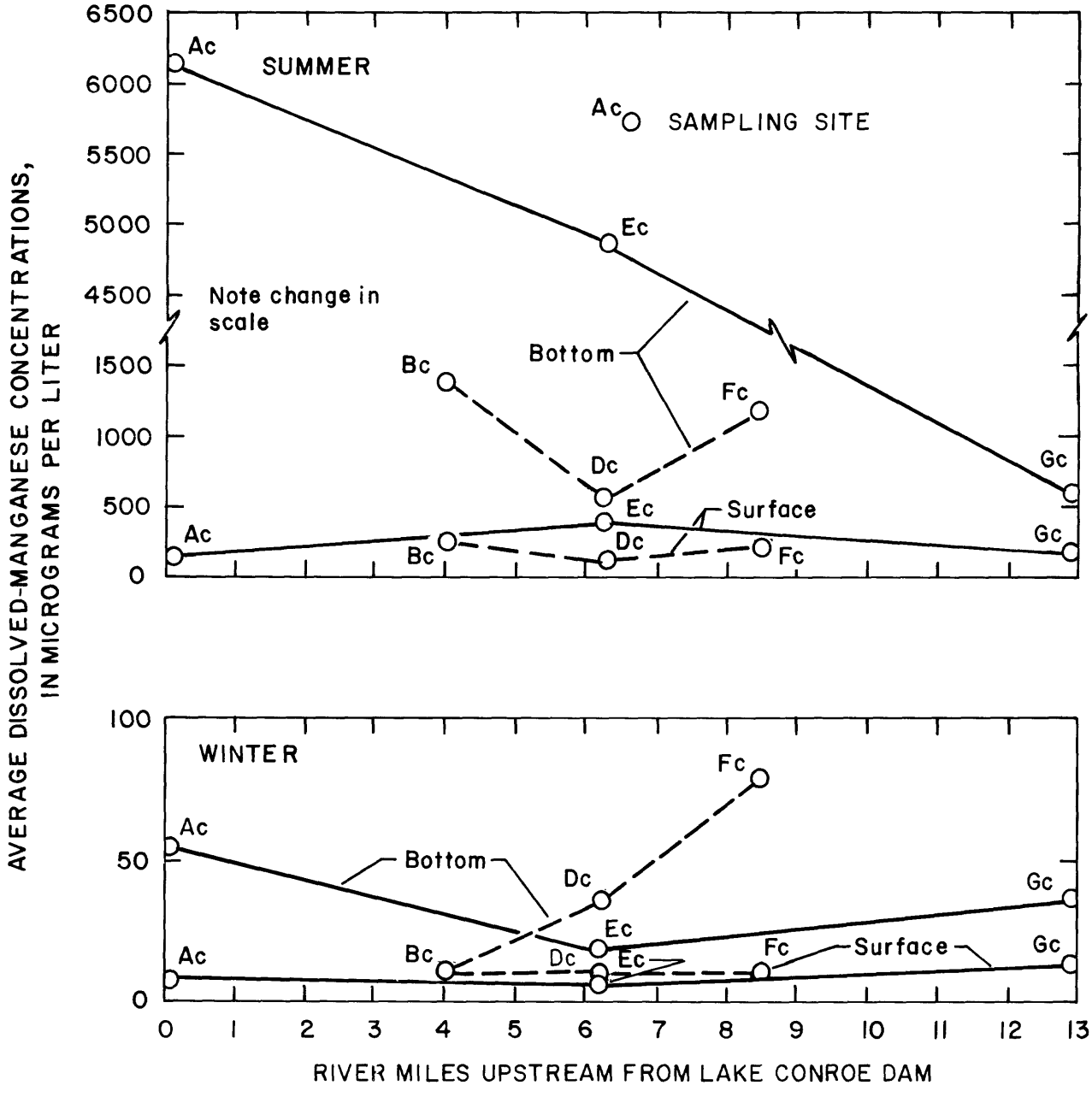


**Figure 9.--Variations of average concentrations of dissolved manganese during summer and winter surveys.**

voir. During the summer, the iron concentration at site $G_C$ has ranged from 0 to 3,000 µg/L and the manganese concentration has ranged from 0 to 2,000 µg/L.

At site $A_C$, a deep site near Conroe Dam (fig. 10), the iron and manganese concentrations usually are large near the reservoir bottom until the lake turns over. During the summer, iron concentrations near the reservoir bottom ranged from 1,500 to 11,000 µg/L and the manganese concentrations ranged from 3,200 to 7,800 µg/L.

### Other Trace Elements

Results of analyses for other trace elements in water samples collected at the water surface and near the reservoir bottom at site $A_C$ during surveys from March 1978 through August 1981 are given in tables 14 to 25. These data indicate that all the other trace elements were detected. Except for dissolved barium, concentrations of the other trace elements did not exceed 30 µg/L. Generally, concentrations at the water surface did not appear to be greater than concentrations near the reservoir bottom; and there were no seasonal variations.

### Total Nitrogen and Phosphorus

According to a literature review by Greeson (1971, p. 75), at least 21 elements in some chemical combination are essential nutrients in the biological productivity in waters of a lake or reservoir. Among these nutrients, nitrogen and phosphorus are the most dominant in controlling productivity because their concentrations are more likely to be in limited supply.

Sources that may contribute nitrogen and phosphorus to a reservoir include runoff from urban and agricultural areas, sewage effluent, industrial wastes, precipitation, decomposing plant and animal debris, and bottom sediments. Both total nitrogen and total phosphorus in the inflow to a reservoir may consist of four major components, dissolved and particulate inorganic forms, and dissolved and particulate organic forms.

As the water enters the reservoir, most of the particulate nitrogen and phosphorus eventually settle to the bottom. Part of the dissolved fractions are utilized by algae and other aquatic organisms as sources of energy. Eventually, these organisms die and settle to the bottom of the reservoir carrying their cellular nitrogen and phosphorus with them.

During summer strafication, decay of aquatic organisms and chemical reduction of bottom sediments decreases the concentration of dissolved oxygen and release nitrogen and phosphorus to the hypolimnion. They may remain there until the turnover, at which time they are recirculated.

Analyses of samples collected from Lake Conroe during the 1973-79 water years included total nitrite plus nitrate nitrogen and ammonia nitrogen (tables 1 to 19); thereafter, analyses included total nitrite plus nitrate nitrogen and total ammonia plus organic nitrogen (tables 20 to 28). Because many of the analyses did not include total organic nitrogen, most of the following discussion is limited to interpretations of the data for total

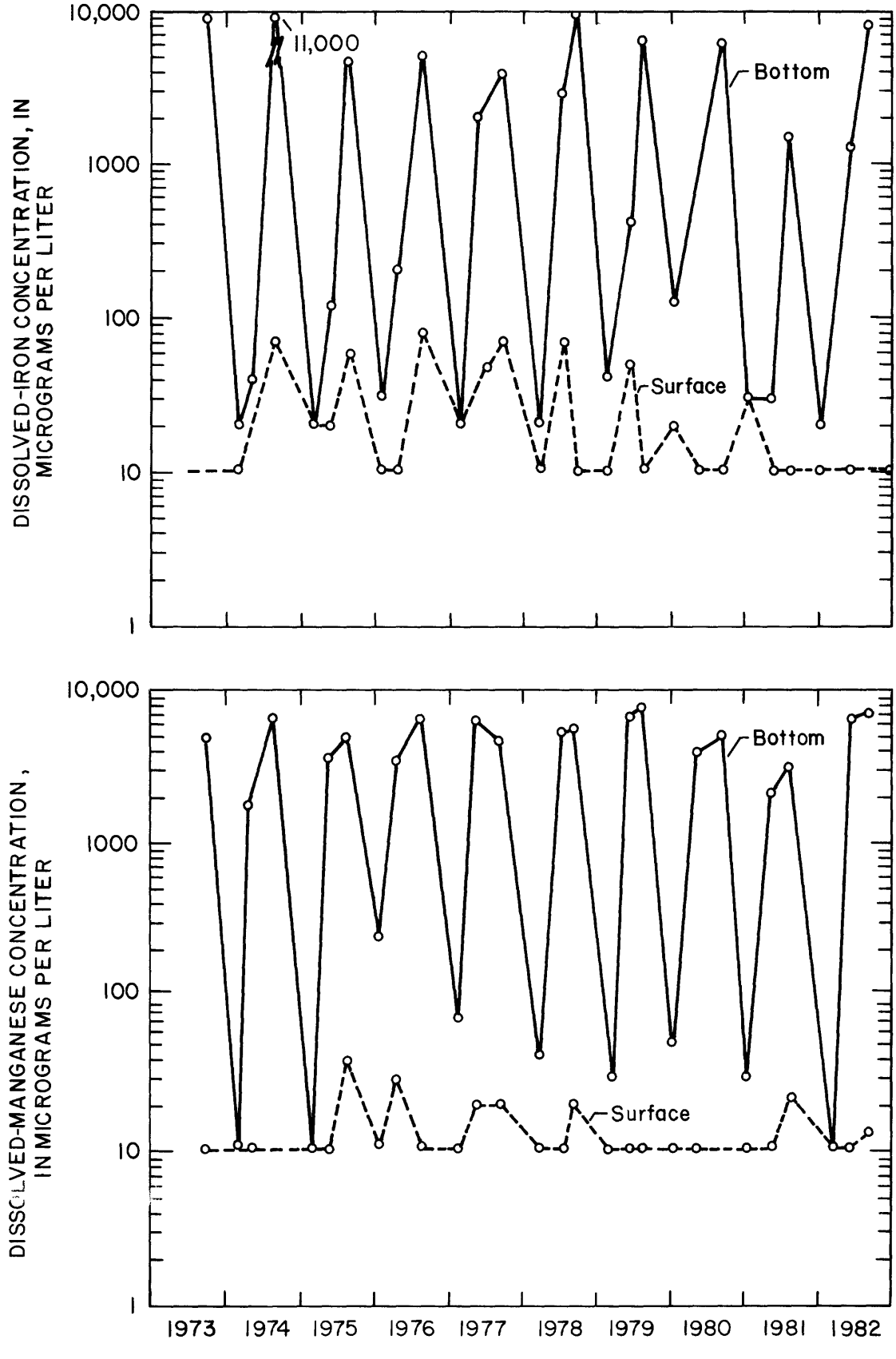


Figure 10.--Variations of dissolved-iron and dissolved-manganese concentrations at site $A_C$, September 1973 to September 1982.

inorganic nitrogen (sum of total ammonia, total nitrite, and total nitrate nitrogen) and total phosphorus.

The concentrations of total inorganic nitrogen as nitrogen and total phosphorus as phosphorus in Lake Conroe varied seasonally and areally (figs. 11 to 15). During winter circulation, the concentrations were relatively uniform throughout the lake. The concentration of total inorganic nitrogen near the reservoir bottom at site $A_C$ averaged 0.23 mg/L, whereas concentrations at the water surface averaged 0.14 mg/L. The concentrations of total phosphorus averaged about 0.06 mg/L both at the water surface and near the reservoir bottom.

When more complete stratification occurred during the summer, there was a trend for the concentrations of total inorganic nitrogen and total phosphorus to increase in the hypolimnion, whereas the concentrations in the epilimnion remained relatively small (figs. 11 to 13). For example, the concentrations of total inorganic nitrogen and total phosphorus in the hypolimnion at the headwaters site ($G_C$) averaged 0.41 and 0.23 mg/L, respectively, whereas the concentration of total inorganic nitrogen in the hypolimnion at site ($A_C$) averaged 2.75 mg/L and the concentration of total phosphorus averaged 0.59 mg/L (fig. 15). Average total inorganic-nitrogen and total phosphorus concentrations in the epilimnion were smaller than 0.10 mg/L throughout the lake during summer stratification.

During the period of record, the concentrations of both total inorganic nitrogen and total phosphorus at deep sites did not appear to increase with time (fig. 15). These data indicate that nutrients are being recycled and accumulation is prevented.

## Phytoplankton

Phytoplankton is a community of floating aquatic plants that drift passively with water currents. Analyses of phytoplankton in Lake Conroe during water-quality surveys are given in tables 29 to 32 at the end of this report. The most common freshwater phytoplankton considered in this study are the algae. Algae are common and normal inhabitants of water in lakes and reservoirs and are important sources of food and dissolved oxygen for fish and other aquatic animals. However, massive densities of algae (blooms), especially blue-green algae, may clog filters of water-treatment plants and may cause undesirable tastes, odors, and other problems in water supplies (Palmer, 1977). The respiration and decay of algae during and after blooms may cause oxygen depletion in a lake or reservoir and may result in fish kills or mortality of other aquatic organisms.

Some of the more important factors that affect the population of algae in a lake or reservoir include light, temperature, and available nutrients (Wetzel, 1975). Generally, algal productivity is greater in clear water than in turbid water and greater in warm water than in cold water. According to Ferguson (1968), the rate of algal growth doubles with each 11-°C increase in water temperature between 0° and 32°C.

The density and composition of an algal population in a lake or reservoir

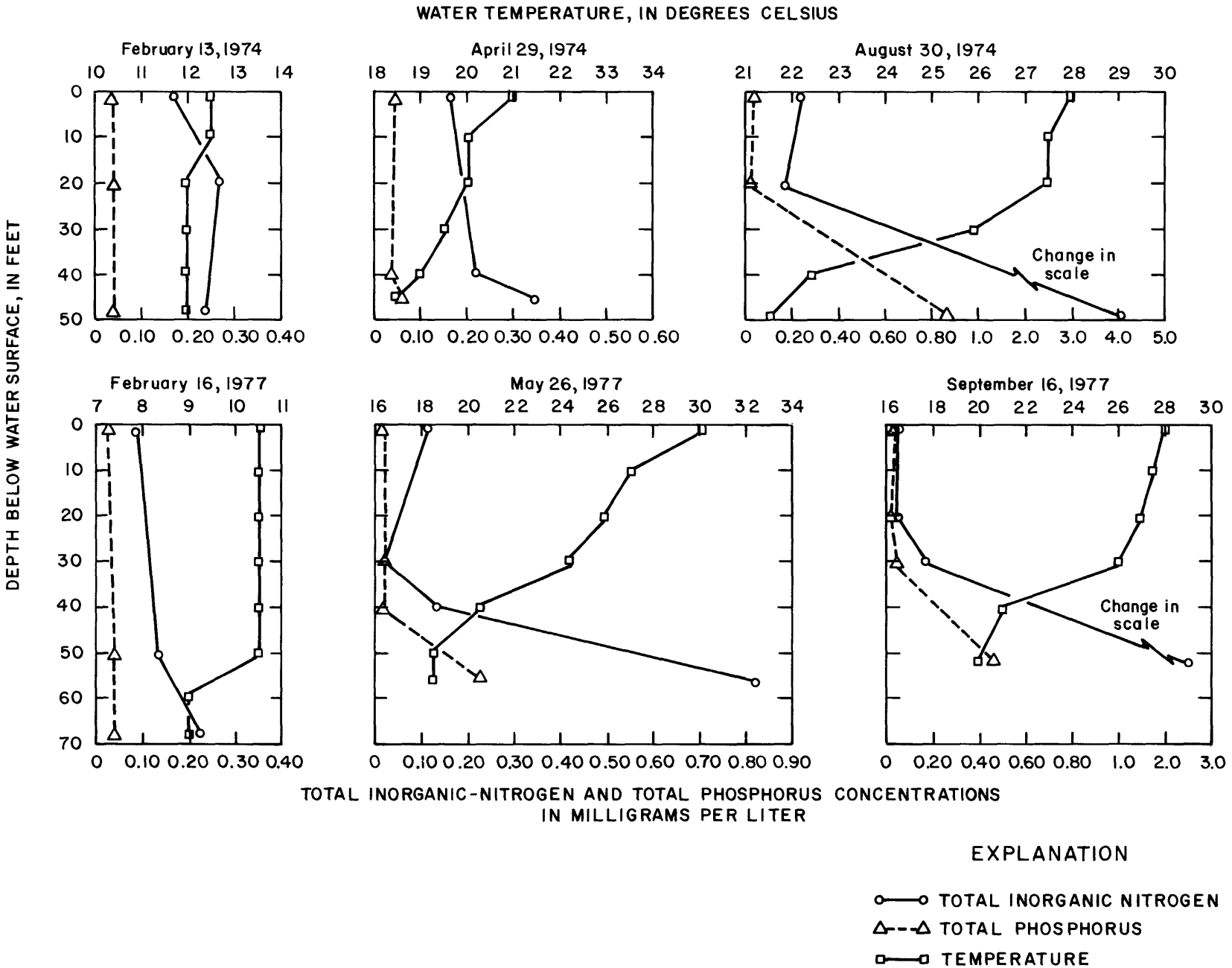


Figure 11.--Seasonal profiles of total inorganic-nitrogen and total phosphorus concentrations, and water temperature at site $A_C$.

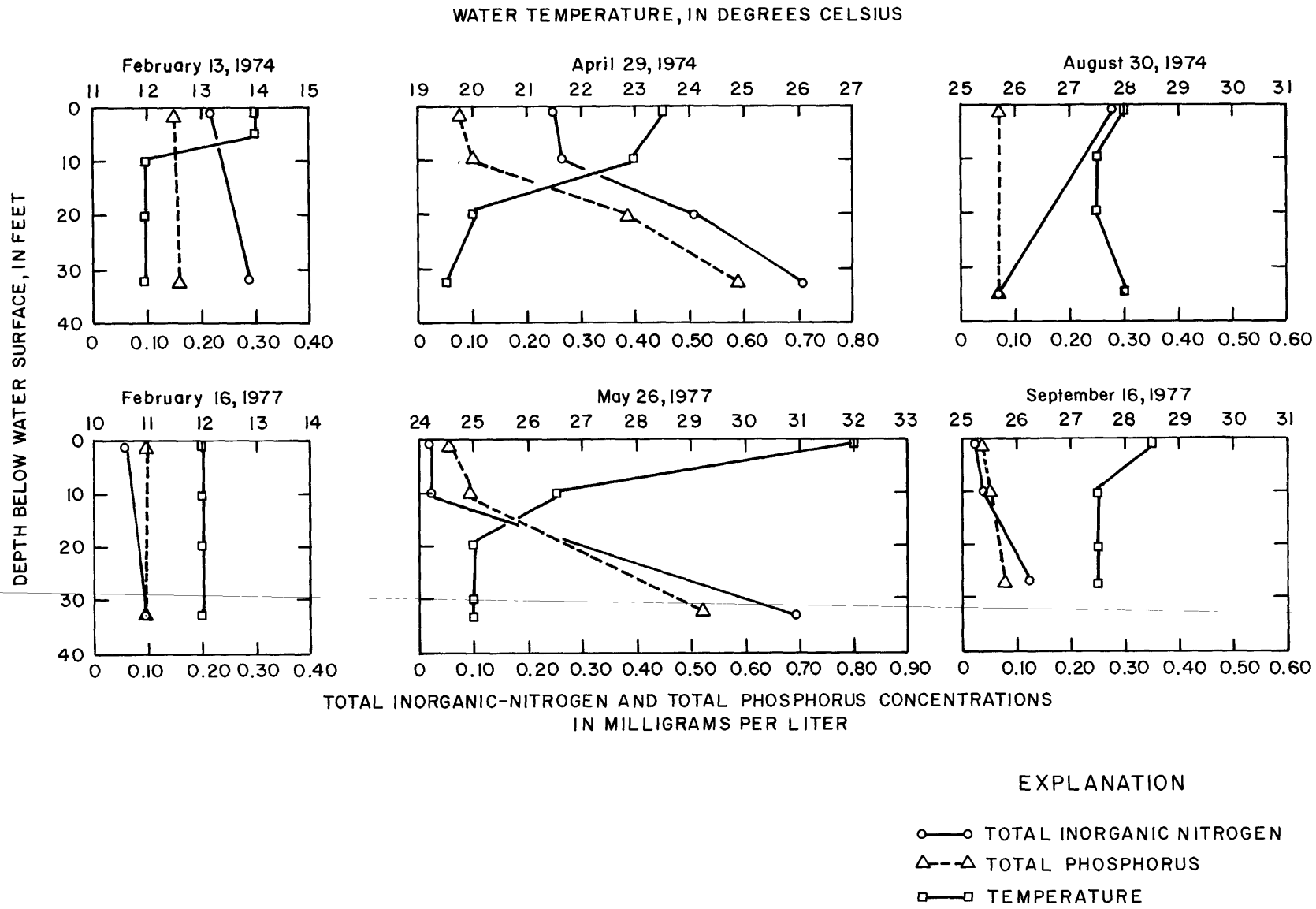


Figure 12.--Seasonal profiles of total inorganic-nitrogen and total phosphorus concentrations, and water temperature at site $G_C$.

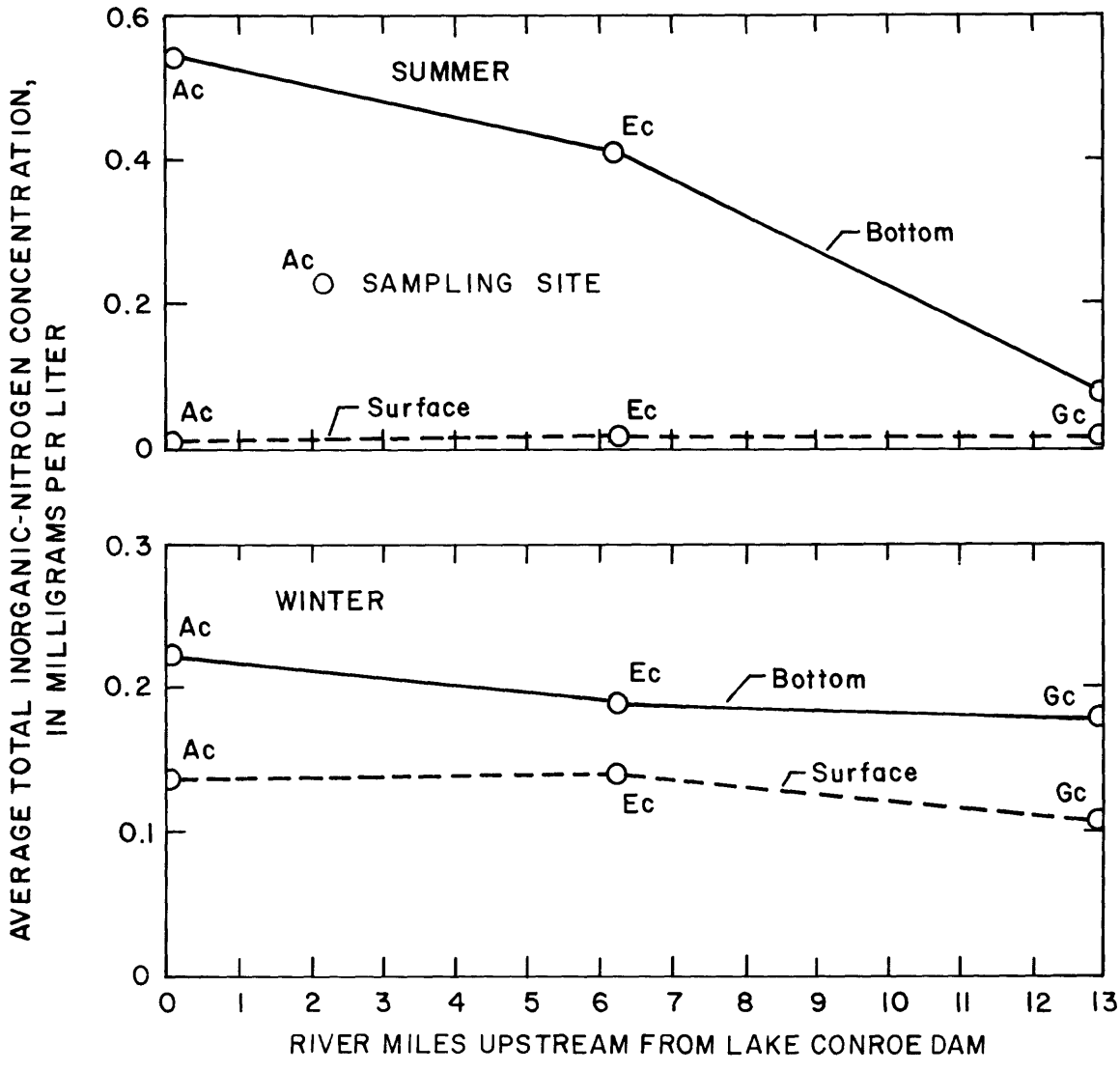


**Figure 13.--Variations of average total inorganic-nitrogen concentrations during summer and winter surveys, September 1973 to September 1982.**

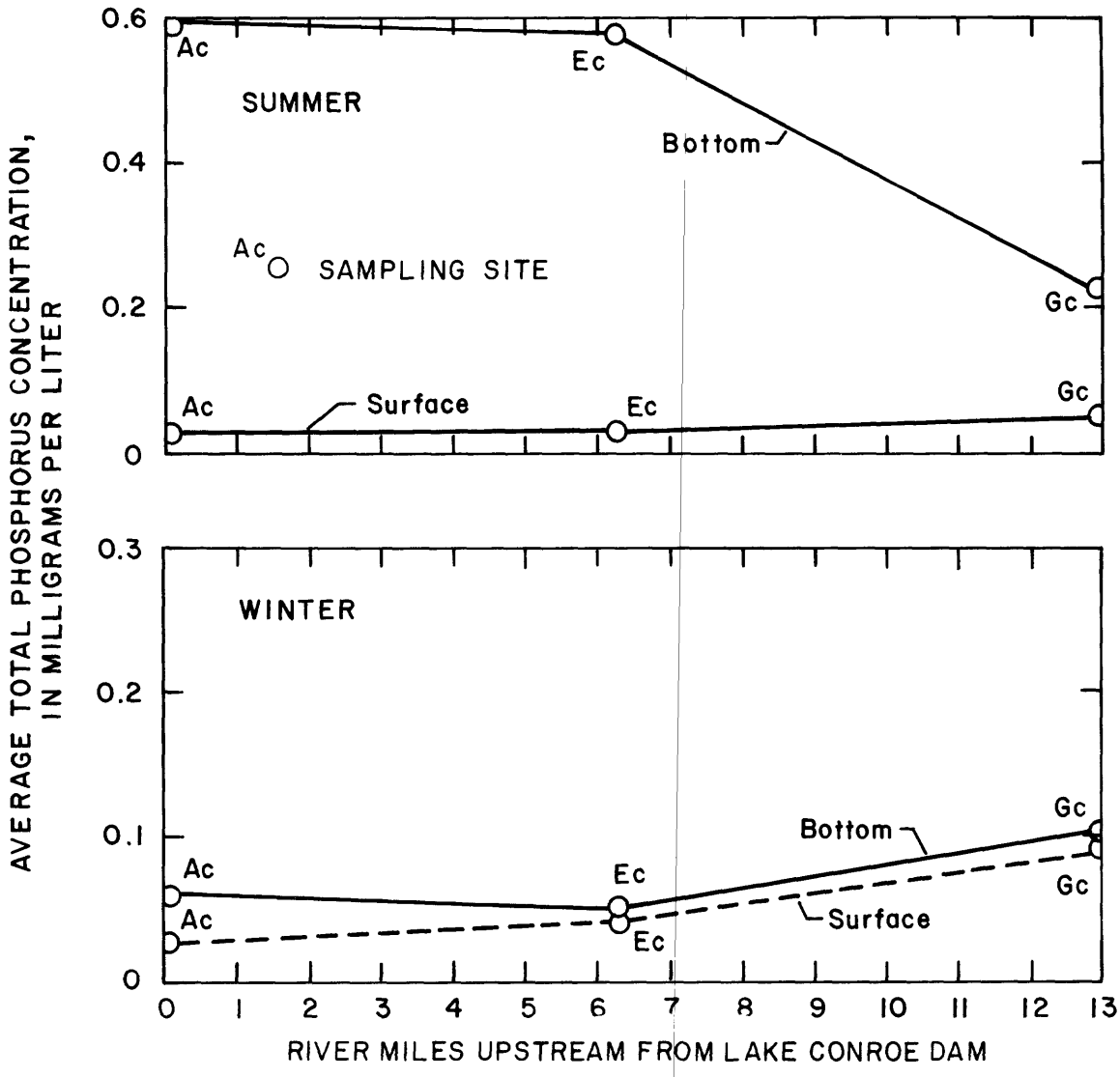


**Figure 14.--Variations of total phosphorus concentrations during summer and winter surveys, September 1973 to September 1982.**

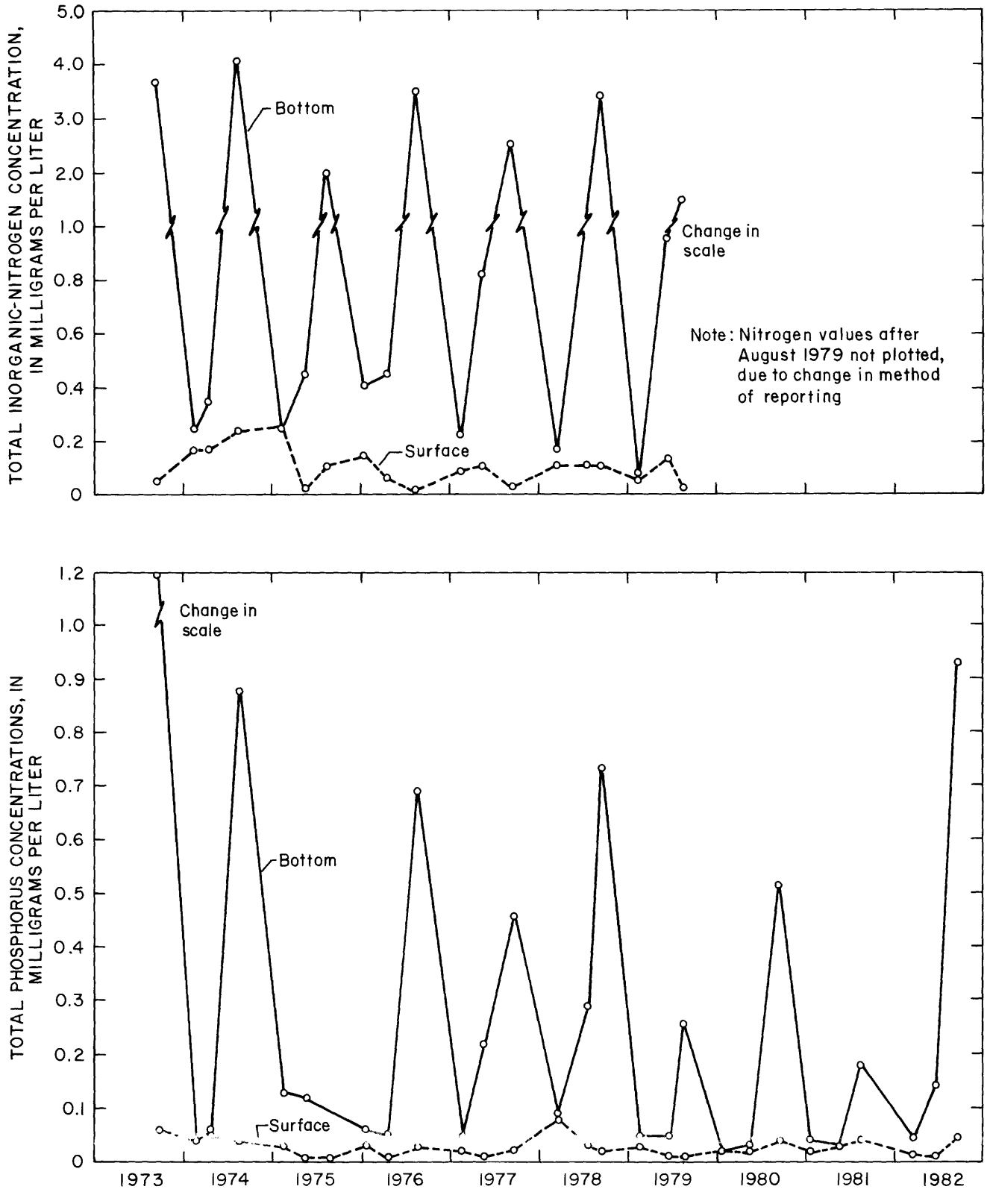


Figure 15.--Variations of total inorganic-nitrogen and total phosphorus concentrations at site $A_C$, September 1973 to September 1982.

may fluctuate rapidly during the course of a year in response to changes in light, temperature, and available nutrients. Blooms generally are associated with warm summer weather but also may occur in the winter.

During the 1978 water year, seasonal water-quality surveys were expanded to include the collection and analysis of samples for phytoplankton (algae) at site $A_C$ near the dam and site $G_C$ in the headwaters. All samples were collected at depths equivalent to one-half the depth of light penetration, as determined by measurements with Secchi disks. The data (figs. 16 and 17 and table 29) indicate that the density and composition of algal populations at both sites varied seasonally. At site $A_C$, total algae counts ranged from 2,400 to 110,000 cells/mL (cells per milliliter) and averaged about 30,000 cells/mL. At site $G_C$ algae counts ranged from 2,100 to 200,000 cells/mL and averaged about 51,000 cells/mL. The total algal population at both sites usually were minimum during the winter and were usually maximum during the summer when water temperatures and nutrient concentrations stimulated growth. The predominant algae during summer surveys at both sites and many spring surveys were blue-green algae (figs. 16 and 17).

## SUMMARY

Thermal stratification in Lake Conroe usually begins to develop in March and persists until October. During June, July, August, and September, thermal stratification usually results in three fairly distinct layers in deep areas: (1) The hypolimnion a cold stagnet lower stratum; (2) the metalimnion, a middle stratum characterized by a rapid decrease in temperature with increase in depth; and (3) the epilimnion, a warmer freely circulating surface stratum.

The concentrations and distribution of dissolved oxygen, iron, and manganese and total inorganic nitrogen and phosphorus are related to the pattern of thermal stratification. The concentrations of dissolved oxygen are smallest and the concentrations of dissolved solids, dissolved iron, dissolved manganese, total inorganic nitrogen, and total phosphorus are largest in the hypolimnion. When the lake is not stratified, these constituents have similar concentrations throughout the vertical profile.

The average concentration of dissolved oxygen at most sites in the downstream one-half of the lake averaged 3.2 mg/L during summer stratification and more than 9 mg/L during winter circulation. The concentration at most sites in the headwaters of the lake averaged less than 4.3 mg/L during the summer and less than 7.9 mg/L during the winter. Water below depths of 25 to 35 feet usually contain less than 1 mg/L dissolved oxygen during the summer.

The occurrence and distribution of dissolved iron and manganese are related to the dissolved-oxygen concentration in the water. Water throughout the lake during winter circulation and water at the surface during summer stratification usually contained less than 100 µg/L of dissolved iron and 100 µg/L of dissolved manganese. The concentration of both iron and manganese in water near the reservoir bottom at deep sites increased greatly during summer stratification. At site $A_C$, a deeper site near Lake Conroe Dam, the concentration of iron in water near the reservoir bottom ranged from 1,500 to to 11,000 µg/L and averaged about 6,000 µg/L during the summer. Manganese

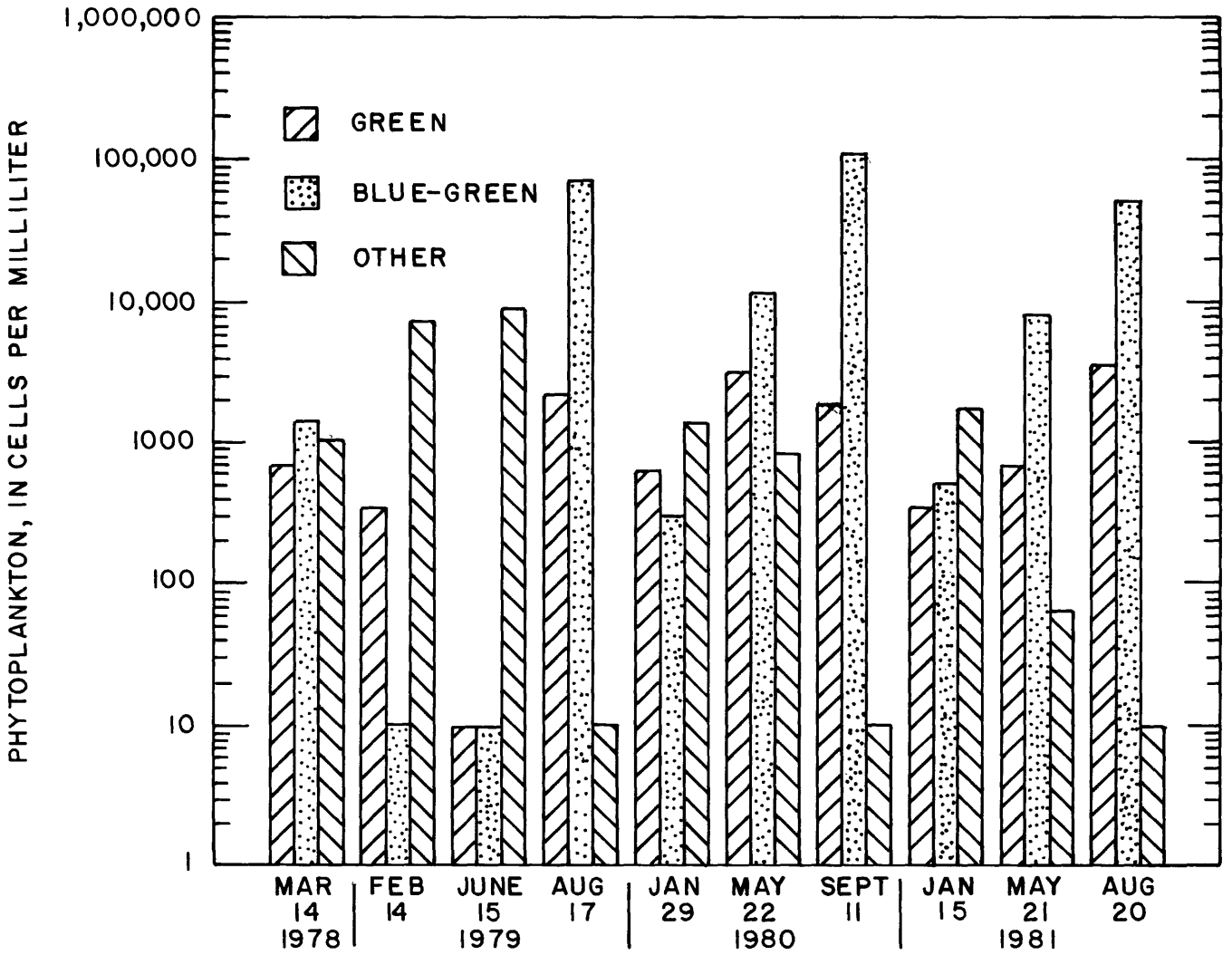


**Figure 16.--Seasonal variations of algal densities at site $A_C$, March 1978 to August 1981.**

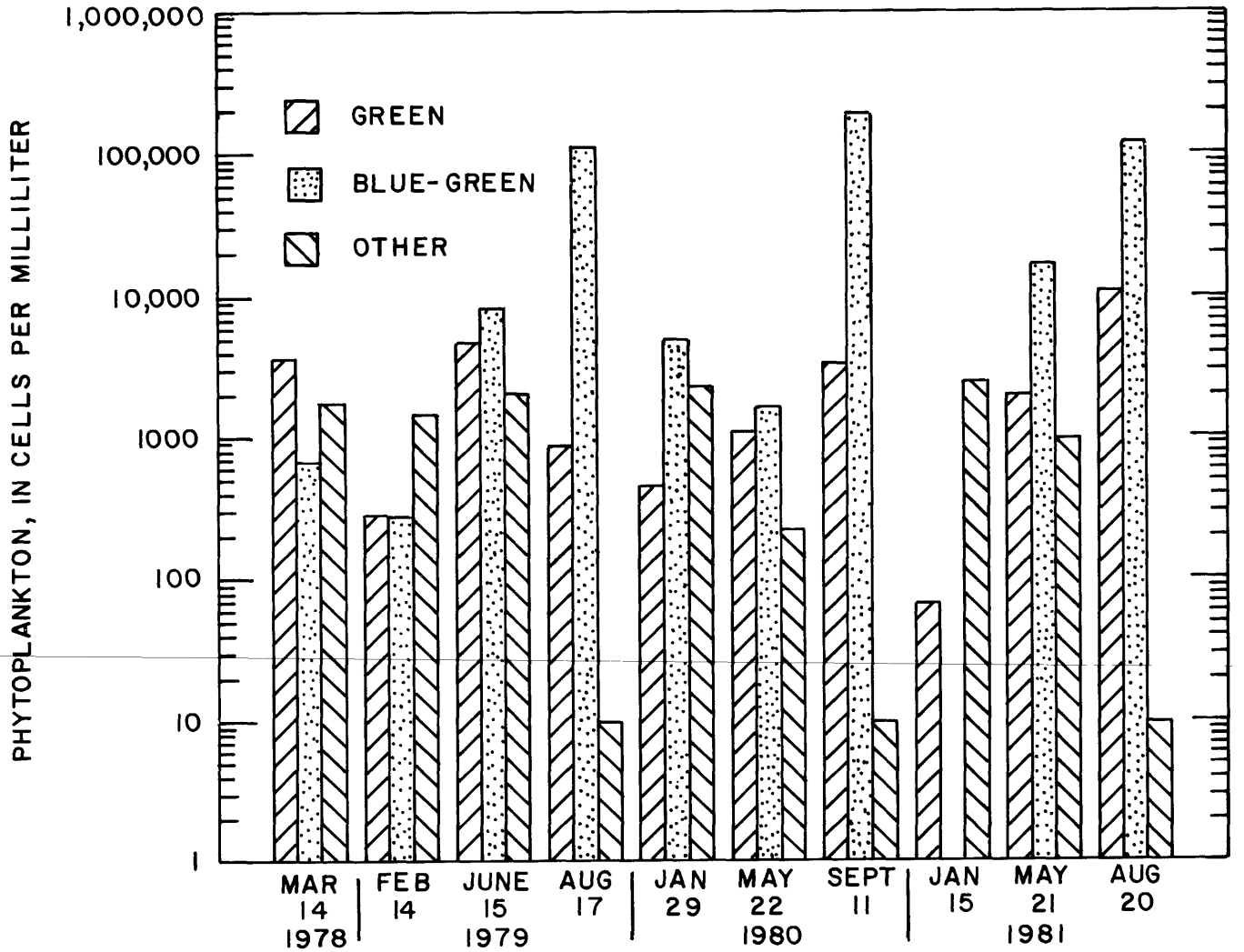


**Figure 17.--Seasonal variations of algal densities at site $G_C$, March 1978 to August 1981.**

concentrations in water at the reservoir bottom at this site during summer ranged from 3,200 to 7,800 µg/L and averaged about 5,000 µg/L.

The total inorganic-nitrogen and total phosphorus concentrations in Lake Conroe varied seasonally and areally. Concentrations usually were largest in the hypolimnion at deep sites during summer stratification when the decay of aquatic organisms and organic debris in the bottom sediments release nutrients to the water. The concentrations of total inorganic nitrogen and total phosphorus near the reservoir bottom at site $A_C$ during summer stratification averaged about 2.75 and 0.59 mg/L, respectively. The concentrations of both nutrients in water at the surface during the summer averaged less than 0.10 mg/L throughout the reservoir. During winter circulation, the nutrient concentrations did not vary with depth.

The concentrations of dissolved solids, dissolved chloride, and dissolved sulfate during the 1973-82 water years averaged generally less than 120, 22, and 10 mg/L, respectively. During summer periods of thermal stratification, the concentrations of dissolved solids at deep sites averaged 50 to 60 mg/L greater in the hypolimnion than in the epliminion.

The density and composition of algal populations varied seasonally. At site $A_C$ total algae counts ranged from 2,400 cells/mL to 110,000 cells/mL. At site $G_C$ algae counts ranged from 2,100 cells/mL to 200,000 cells/mL. Algae densities were greatest during the summer when blue-green algae were the predominant types.

## SELECTED REFERENCES


Dowell, C. L., and Petty, R. G., 1973, Dams and reservoirs in Texas, Part 2: Texas Water Development Board Report 126, 327 p.

Ferguson, F. A., 1968, A nonmyopic approach to the problem of excessive algal growth: Environmental Science and Technology, volume 2, p. 188-193.

Greeson, P. E., 1971, The limnology of Oneida Lake with emphasis on factors contributing to algal blooms: U.S. Geological Survey open-file report, 185 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water (2d ed.): U.S. Geological Survey Water-Supply Paper 1473, 363 p.

Hutchinson, G. E., 1957, A treatise on limnology; Volume I, Geography, physics, and chemistry: New York, John Wiley and Sons, 1015 p.

Palmer, M. C., 1977, Algae and water pollution: U.S. Environmental Protection Agency, 123 p.

U.S. Environmental Protection Agency, 1976 [1977], Quality Criteria for water, 1976: Washington, D.C., U.S. Government Printing Office, 256 p.

_____ 1977a, National interim primary drinking water regulations: Office of Water Supply, EPA-570/9-76-003, 159 p.

_____ 1977b, National secondary drinking water regulations: Federal Register, v. 42, no. 62, part I, p. 17143-17147.

U.S. Geological Survey, 1974-75, Water resources data for Texas, 1973-74--Part 2. Water-quality records: Austin, U.S. Geological Survey Water-data Reports (published annually).

U.S. Geological Survey, 1976-82, Water-resources data for Texas, Water years 1975-81, Volumes 1-3: Austin, U.S. Geological Survey Water-Data Reports, TX-75-1 to TX-82-1, TX-75-2 to TX-82-2, and TX-75-3 to TX 82-3 (published annually).

Weast, R. C., 1975, Handbook of chemistry and physics (56th ed.): Cleveland, Ohio, CRC Press, 2350 p.

Wells, F. C., and Schertz, T. L., 1984, Computation and use of volume-weighted-average concentrations to determine long-term variations of selected water-quality constituents in lakes and reservoirs: U.S. Geological Survey Water Resources Investigations Report 83-4287, 8 p.

Wetzel, R. G., 1975, Limnology: Philadelphia, W. B. Saunders Co., 743 p.

TABLE 1.--Chemical-quality survey of Lake Conroe, Sept. 19, 1973

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 1000 | 1.00 | 186 | 7.6 | 27.5 | 1.80 | 6.9 | 86 | 69 |
| 19... | 1002 | 10.0 | 186 | 7.6 | 27.5 | -- | 6.3 | 79 | -- |
| 19... | 1004 | 15.0 | 186 | 7.1 | 27.5 | -- | 4.0 | 50 | -- |
| 19... | 1006 | 20.0 | 186 | 6.9 | 26.5 | -- | 1.2 | 15 | -- |
| 19... | 1008 | 25.0 | 186 | 6.8 | 26.5 | -- | .2 | 2 | -- |
| 19... | 1010 | 30.0 | 186 | 6.8 | 26.0 | -- | .2 | 2 | -- |
| 19... | 1012 | 35.0 | 191 | 6.8 | 24.5 | -- | .2 | 2 | -- |
| 19... | 1014 | 45.0 | 311 | 6.6 | 22.5 | -- | .2 | 2 | 100 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 2 | 24 | 2.2 | 9.2 | .5 | 82 | 67 | <1.0 | 14 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 0 | 35 | 3.2 | 12 | .5 | 126 | 103 | .2 | 18 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 19... | .10 | 5.1 | 97 | .040 | <.010 | .060 | <10 | <10 |
| 19... | -- | -- | -- | .040 | <.010 | .040 | <10 | <10 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | .020 | <.010 | .040 | 20 | <10 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | .10 | 16 | 168 | .200 | 3.50 | 1.20 | 9400 | 5000 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 19... | 1020 | 1.00 | 186 | 7.7 | 27.5 | 6.7 | 84 |
| 19... | 1022 | 10.0 | 186 | 7.6 | 27.5 | 6.2 | 78 |
| 19... | 1024 | 20.0 | 186 | 6.9 | 26.5 | .8 | 10 |
| 19... | 1026 | 30.0 | 186 | 6.8 | 25.5 | .2 | 2 |
| 19... | 1028 | 40.0 | 205 | 6.7 | 23.0 | .2 | 2 |
| 19... | 1030 | 45.0 | 332 | 6.5 | 21.5 | .2 | 2 |
| 19... | 1032 | 50.0 | 332 | 6.5 | 22.0 | .2 | 2 |

TABLE 1.--Chemical-quality survey of Lake Conroe, Sept. 19, 1973-continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 1100 | 1.00 | 196 | 7.6 | 28.0 | 1.50 | 6.4 | 81 | 75 |
| 19... | 1102 | 10.0 | 196 | 7.6 | 27.5 | -- | 6.1 | 76 | -- |
| 19... | 1104 | 20.0 | 196 | 7.1 | 27.5 | -- | 3.5 | 44 | -- |
| 19... | 1106 | 26.0 | 235 | 6.5 | 26.0 | -- | .2 | 2 | 90 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 4 | 26 | 2.4 | 9.3 | .5 | 86 | 71 | .8 | 13 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 4 | 32 | 2.4 | 8.5 | .4 | 105 | 86 | .4 | 11 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 19... | <.10 | 4.8 | 100 | .010 | <.010 | .040 | <10 | <10 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | <.10 | 8.6 | 123 | .100 | 1.10 | .340 | 3800 | 1200 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 19... | 1120 | 1.00 | 189 | 8.0 | 28.0 | 7.5 | 95 |
| 19... | 1122 | 10.0 | 189 | 7.6 | 27.5 | 6.5 | 81 |
| 19... | 1124 | 20.0 | 189 | 7.5 | 27.0 | 5.9 | 73 |
| 19... | 1126 | 25.0 | 189 | 7.5 | 27.0 | 5.9 | 73 |
| 19... | 1128 | 30.0 | 197 | 6.8 | 25.5 | .2 | 2 |
| 19... | 1130 | 40.0 | 218 | 6.8 | 24.0 | .2 | 2 |
| 19... | 1132 | 52.0 | 234 | 6.8 | 24.0 | .2 | 2 |

TABLE 1.--Chemical-quality survey of Lake Conroe, Sept. 19, 1973--continued

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 19... | 1145 | 1.00 | 189 | 7.6 | 28.0 | 6.6 | 84 |
| 19... | 1148 | 10.0 | 189 | 7.5 | 27.5 | 6.2 | 78 |
| 19... | 1150 | 20.0 | 189 | 7.2 | 27.5 | 4.6 | 58 |
| 19... | 1152 | 25.0 | 189 | 6.9 | 27.5 | .7 | 9 |
| 19... | 1154 | 33.0 | 198 | 6.7 | 25.5 | .5 | 6 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 1215 | 1.00 | 189 | 7.7 | 28.5 | 1.20 | 7.3 | 94 | 69 |
| 19... | 1218 | 10.0 | 189 | 7.4 | 27.5 | -- | 6.5 | 81 | -- |
| 19... | 1220 | 15.0 | 189 | 7.3 | 27.5 | -- | 5.9 | 74 | -- |
| 19... | 1222 | 22.0 | 232 | 6.4 | 26.0 | -- | .3 | 4 | 81 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 2 | 24 | 2.3 | 9.4 | .5 | 83 | 68 | .6 | 14 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 3 | 28 | 2.7 | 12 | .6 | 95 | 78 | .4 | 20 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 19... | <.10 | 4.8 | 98 | .030 | <.010 | .050 | <10 | <10 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | <.10 | 12 | 130 | .080 | 1.40 | .320 | 3400 | 1500 |

TABLE 1.--Chemical-quality survey of Lake Conroe, Sept. 19, 1973--continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 1250 | 1.00 | 188 | 7.8 | 27.5 | .90 | 7.7 | 96 | 69 |
| 19... | 1252 | 10.0 | 188 | 7.4 | 27.0 | -- | 6.3 | 78 | -- |
| 19... | 1254 | 20.0 | 188 | 7.1 | 26.5 | -- | 4.6 | 56 | -- |
| 19... | 1256 | 25.0 | 188 | 6.8 | 26.5 | -- | .5 | 6 | -- |
| 19... | 1258 | 30.0 | 238 | 6.4 | 25.5 | -- | .3 | 4 | -- |
| 19... | 1300 | 38.0 | 337 | 6.3 | 25.5 | -- | .3 | 4 | 110 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 0 | 24 | 2.3 | 9.7 | .5 | 84 | 69 | .6 | 14 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 7 | 37 | 3.4 | 10 | .4 | 122 | 100 | .2 | 13 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 19... | <.10 | 5.4 | 98 | .020 | <.010 | .050 | <10 | <10 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | .050 | <.010 | .050 | 110 | 20 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | <.10 | 15 | 174 | .300 | 5.10 | 1.70 | 19000 | 6200 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 1330 | 1.00 | 188 | 7.4 | 28.5 | 1.40 | 6.6 | 85 | 70 |
| 19... | 1332 | 10.0 | 189 | 7.0 | 27.5 | -- | 4.5 | 56 | -- |
| 19... | 1334 | 17.0 | 200 | 6.6 | 27.5 | -- | .4 | 5 | 76 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 4 | 24 | 2.4 | 9.5 | .5 | 80 | 66 | .8 | 14 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 7 | 26 | 2.6 | 9.8 | .5 | 84 | 69 | .4 | 14 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 19... | <.10 | 4.7 | 96 | .010 | <.010 | .050 | <10 | <10 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | <.10 | 5.5 | 104 | .070 | .520 | .160 | 1500 | 880 |

TABLE 1.--Chemical-quality survey of Lake Conroe, Sept. 19, 1973--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 1400 | 1.00 | 233 | 7.0 | 27.5 | .90 | 4.3 | 54 | 86 |
| 19... | 1402 | 5.00 | 243 | 6.9 | 27.5 | -- | 2.9 | 36 | -- |
| 19... | 1404 | 10.0 | 291 | 6.7 | 26.0 | -- | .2 | 2 | -- |
| 19... | 1406 | 15.0 | 303 | 6.7 | 26.0 | -- | .2 | 2 | -- |
| 19... | 1408 | 25.0 | 303 | 6.7 | 26.0 | -- | .2 | 2 | 100 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 19... | 7 | 30 | 2.8 | 12 | .6 | 98 | 80 | 4.8 | 19 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 8 | 35 | 3.0 | 19 | .9 | 112 | 92 | .4 | 32 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 19... | .10 | 7.9 | 127 | .060 | <.010 | .070 | 80 | <10 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | .050 | .300 | .230 | 890 | 580 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | .10 | 17 | 164 | .060 | .390 | .250 | 1200 | 700 |

TABLE 2.--Chemical-quality survey of Lake Conroe, February 13, 1974

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

30212/095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 13... | 1015 | 1.00 | 194 | 7.5 | 12.5 | 9.4 | 88 | 74 |
| 13... | 1018 | 10.0 | 194 | 7.5 | 12.5 | 9.4 | 88 | -- |
| 13... | 1020 | 20.0 | 194 | 7.4 | 12.0 | 9.2 | 85 | -- |
| 13... | 1022 | 30.0 | 194 | 7.4 | 12.0 | 9.0 | 83 | -- |
| 13... | 1024 | 40.0 | 194 | 7.3 | 12.0 | 8.6 | 80 | -- |
| 13... | 1026 | 48.0 | 196 | 7.3 | 12.0 | 8.5 | 79 | 76 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 5 | 25 | 2.8 | 9.2 | .5 | 84 | 69 | 4.4 | 14 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 6 | 26 | 2.8 | 8.3 | .4 | 86 | 71 | 4.4 | 13 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 13... | .10 | 2.1 | 99 | .160 | <.010 | .040 | <10 | <10 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | .260 | <.010 | .040 | <10 | <10 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | .10 | 3.5 | 101 | .230 | <.010 | .040 | 20 | <10 |

302132095333/01 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 13... | 1035 | 1.00 | 194 | 7.5 | 12.5 | 9.4 | 88 |
| 13... | 1038 | 10.0 | 194 | 7.5 | 12.0 | 9.3 | 86 |
| 13... | 1040 | 20.0 | 194 | 7.5 | 12.0 | 9.1 | 84 |
| 13... | 1042 | 30.0 | 194 | 7.5 | 12.0 | 9.0 | 83 |
| 13... | 1044 | 40.0 | 194 | 7.5 | 11.5 | 8.7 | 79 |
| 13... | 1046 | 50.0 | 194 | 7.4 | 11.5 | 8.6 | 78 |
| 13... | 1048 | 61.0 | 196 | 7.4 | 11.5 | 8.3 | 75 |

TABLE 2.--Chemical-quality survey of Lake Conroe, February 13, 1974--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 13... | 1000 | 1.00 | 194 | 7.5 | 12.5 | 9.4 | 88 | 76 |
| 13... | 1002 | 10.0 | 194 | 7.4 | 12.5 | 9.4 | 88 | -- |
| 13... | 1004 | 20.0 | 194 | 7.3 | 12.5 | 8.8 | 82 | -- |
| 13... | 1006 | 32.0 | 196 | 7.1 | 12.0 | 7.2 | 67 | -- |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 6 | 26 | 2.8 | 7.4 | .4 | 86 | 71 | 4.0 | 12 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 13... | .10 | 3.0 | 98 | .180 | <.010 | .040 | <10 | <10 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | .310 | <.010 | .070 | 50 | <10 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 13... | 1115 | 1.00 | 190 | 7.6 | 12.5 | 9.3 | 87 |
| 13... | 1118 | 10.0 | 190 | 7.6 | 12.5 | 9.2 | 86 |
| 13... | 1120 | 20.0 | 190 | 7.6 | 12.5 | 9.2 | 86 |
| 13... | 1122 | 30.0 | 190 | 7.5 | 12.5 | 9.2 | 86 |
| 13... | 1124 | 40.0 | 190 | 7.5 | 12.5 | 8.8 | 82 |
| 13... | 1126 | 48.0 | 190 | 7.8 | 12.5 | 7.3 | 73 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 13... | 1100 | 1.00 | 190 | 7.6 | 13.0 | 9.6 | 91 |
| 13... | 1102 | 10.0 | 190 | 7.6 | 13.0 | 9.6 | 91 |
| 13... | 1104 | 20.0 | 190 | 7.6 | 12.5 | 9.4 | 88 |
| 13... | 1106 | 30.0 | 190 | 7.5 | 12.5 | 9.0 | 84 |
| 13... | 1108 | 36.0 | 190 | 7.4 | 12.5 | 7.8 | 73 |

TABLE 2.--Chemical-quality survey of Lake Conroe, February 13, 1974--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 1140 | 1.00 | 177 | 7.5 | 13.0 | .80 | 9.2 | 87 | 66 |
| 13... | 1142 | 10.0 | 177 | 7.5 | 13.0 | -- | 9.2 | 87 | -- |
| 13... | 1144 | 20.0 | 177 | 7.1 | 12.0 | -- | 6.4 | 59 | -- |
| 13... | 1146 | 26.0 | 177 | 7.1 | 12.0 | -- | 6.2 | 57 | -- |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 8 | 22 | 2.8 | 8.2 | .5 | 72 | 59 | 4.4 | 14 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 13... | .10 | 3.0 | 90 | .180 | <.010 | .050 | 70 | <10 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | .260 | <.010 | .050 | 70 | <10 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 1220 | 1.00 | 180 | 7.4 | 13.0 | .80 | 8.8 | 83 | 69 |
| 13... | 1222 | 10.0 | 180 | 7.4 | 12.5 | -- | 8.7 | 81 | -- |
| 13... | 1224 | 20.0 | 180 | 7.4 | 12.5 | -- | 8.7 | 81 | -- |
| 13... | 1226 | 30.0 | 180 | 7.2 | 12.5 | -- | 7.4 | 69 | -- |
| 13... | 1228 | 36.0 | 180 | 7.2 | 12.5 | -- | 6.8 | 64 | 66 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 10 | 23 | 2.7 | 7.9 | .4 | 72 | 59 | 4.6 | 15 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 9 | 22 | 2.7 | 8.4 | .5 | 70 | 57 | 4.4 | 15 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 13... | .10 | 4.2 | 93 | .160 | <.010 | .070 | 50 | <10 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | .270 | <.010 | .050 | 50 | <10 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | .10 | 4.7 | 93 | .260 | <.010 | .070 | 80 | <10 |

TABLE 2.--Chemical-quality survey of Lake Conroe, February 13, 1974--continued

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 1240 | 1.00 | 144 | 7.2 | 14.0 | .60 | 8.7 | 84 | 52 |
| 13... | 1242 | 10.0 | 144 | 7.2 | 12.5 | -- | 7.5 | 70 | -- |
| 13... | 1244 | 22.0 | 144 | 6.8 | 11.5 | -- | 3.7 | 34 | -- |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 7 | 17 | 2.4 | 6.8 | .4 | 55 | 45 | 3.0 | 13 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 13... | <.10 | .9 | 71 | .140 | <.010 | .070 | 150 | <10 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | .340 | <.010 | .080 | 210 | 160 |

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 1315 | 1.00 | 127 | 7.0 | 14.0 | .30 | 7.8 | 75 | 44 |
| 13... | 1318 | 5.00 | 127 | 6.9 | 14.0 | -- | 7.9 | 71 | -- |
| 13... | 1320 | 10.0 | 142 | 6.8 | 12.0 | -- | 4.9 | 45 | -- |
| 13... | 1322 | 20.0 | 160 | 6.8 | 12.0 | -- | 4.8 | 44 | -- |
| 13... | 1324 | 32.0 | 160 | 6.8 | 12.0 | -- | 4.8 | 44 | 56 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 6 | 14 | 2.2 | 7.4 | .5 | 46 | 38 | 4.6 | 12 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 13 | 18 | 2.6 | 8.8 | .5 | 53 | 43 | 6.0 | 17 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 13... | <.10 | 7.2 | 71 | .210 | <.010 | .150 | 170 | <10 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | <.10 | 11 | 91 | .280 | <.010 | .160 | 180 | 30 |

TABLE 3.--Chemical-quality survey of Lake Conroe, April 29, 1974

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 1500 | 1.00 | 197 | 7.0 | 21.0 | 1.80 | 6.2 | 69 | 76 |
| 29... | 1502 | 10.0 | 197 | 6.9 | 20.0 | -- | 5.8 | 64 | -- |
| 29... | 1504 | 20.0 | 197 | 6.8 | 20.0 | -- | 5.2 | 57 | -- |
| 29... | 1506 | 30.0 | 197 | 6.7 | 19.5 | -- | 4.0 | 43 | -- |
| 29... | 1508 | 40.0 | 197 | 6.7 | 19.0 | -- | 2.9 | 31 | -- |
| 29... | 1510 | 45.0 | 209 | 6.6 | 18.5 | -- | .0 | 0 | 79 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 6 | 27 | 2.2 | 7.8 | .4 | 3.3 | 86 | 71 | 5.1 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 4 | 28 | 2.2 | 8.2 | .4 | 3.3 | 92 | 75 | 5.3 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | |
| 29... | 15 | 2.5 | 110 | .030 | .140 | .050 | 20 | <10 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | .120 | .100 | .040 | 30 | <10 |
| 29... | 15 | 4.2 | 110 | .080 | .270 | .060 | 40 | 1800 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| APR | | | | | | | |
| 29... | 1530 | 1.00 | 197 | 7.0 | 20.5 | 6.4 | 70 |
| 29... | 1532 | 10.0 | 197 | 7.0 | 20.5 | 6.2 | 68 |
| 29... | 1534 | 20.0 | 197 | 6.9 | 20.0 | 5.7 | 62 |
| 29... | 1536 | 30.0 | 197 | 6.8 | 19.5 | 4.0 | 43 |
| 29... | 1538 | 40.0 | 197 | 6.8 | 19.0 | 2.4 | 26 |
| 29... | 1540 | 49.0 | 210 | 6.8 | 17.5 | .0 | 0 |

TABLE 3.--Chemical-quality survey of Lake Conroe, April 29, 1974--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 1400 | 1.00 | 204 | 7.4 | 23.0 | 1.40 | 7.3 | 84 | 79 |
| 29... | 1402 | 10.0 | 204 | 7.4 | 22.5 | -- | 7.1 | 81 | -- |
| 29... | 1404 | 20.0 | 204 | 6.7 | 21.0 | -- | 2.8 | 31 | -- |
| 29... | 1406 | 32.0 | 231 | 6.6 | 19.0 | -- | .0 | 0 | 81 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 4 | 28 | 2.1 | 7.7 | .4 | 3.2 | 92 | 75 | 5.1 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 0 | 29 | 2.1 | 8.2 | .4 | 3.2 | 102 | 84 | 5.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | |
| 29... | 15 | 3.0 | 110 | <.100 | .180 | .050 | 60 | <10 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 14 | 4.5 | 120 | .010 | .850 | .100 | 1100 | 1600 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| APR | | | | | | | |
| 29... | 1550 | 1.00 | 197 | 7.3 | 21.5 | 7.6 | 85 |
| 29... | 1552 | 10.0 | 197 | 7.3 | 21.5 | 7.6 | 85 |
| 29... | 1554 | 20.0 | 197 | 7.2 | 21.0 | 7.4 | 82 |
| 29... | 1556 | 30.0 | 197 | 7.1 | 21.0 | 6.8 | 76 |
| 29... | 1558 | 40.0 | 197 | 6.6 | 19.5 | .9 | 10 |
| 29... | 1600 | 50.0 | 197 | 6.6 | 19.0 | .0 | 0 |

302320095334001 SITE C1

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| APR | | | | | | | |
| 29... | 1540 | 1.00 | 197 | 7.3 | 21.5 | 7.4 | 83 |
| 29... | 1542 | 10.0 | 197 | 7.2 | 21.5 | 7.2 | 81 |
| 29... | 1544 | 20.0 | 197 | 7.0 | 21.0 | 6.7 | 74 |
| 29... | 1546 | 30.0 | 197 | 6.8 | 20.5 | 4.5 | 51 |
| 29... | 1548 | 35.0 | 197 | 6.7 | 19.5 | 1.8 | 19 |

TABLE 3.--Chemical-quality survey of Lake Conroe, April 29, 1974--continued

302448095374101 SITE Dc

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 1615 | 1.00 | 197 | 7.6 | 23.5 | 1.10 | 8.3 | 97 | 74 |
| 29... | 1617 | 10.0 | 197 | 7.6 | 23.0 | -- | 8.1 | 93 | -- |
| 29... | 1620 | 20.0 | 197 | 7.5 | 23.0 | -- | 7.8 | 90 | -- |
| 29... | 1622 | 24.0 | 217 | 6.4 | 20.5 | -- | .0 | 0 | 79 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 4 | 26 | 2.2 | 8.6 | .5 | 3.3 | 85 | 70 | 5.2 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 0 | 28 | 2.3 | 8.5 | .4 | 3.3 | 98 | 80 | 3.9 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | |
| 29... | 16 | 1.8 | 100 | <.100 | .130 | .050 | 30 | 40 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 16 | 4.2 | 120 | <.100 | .320 | .040 | 880 | 3100 |

302607095360901 SITE Ec

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 1700 | 1.00 | 196 | 7.6 | 22.5 | 1.50 | 8.0 | 91 | 73 |
| 29... | 1702 | 10.0 | 196 | 7.5 | 22.5 | -- | 7.8 | 89 | -- |
| 29... | 1704 | 20.0 | 196 | 7.4 | 22.0 | -- | 7.8 | 89 | -- |
| 29... | 1706 | 30.0 | 196 | 7.0 | 21.5 | -- | 6.8 | 76 | -- |
| 29... | 1708 | 35.0 | 226 | 6.5 | 19.0 | -- | .0 | 0 | -- |
| 29... | 1710 | 40.0 | 226 | 6.5 | 18.5 | -- | .0 | 0 | -- |
| 29... | 1712 | 43.0 | 226 | 6.4 | 18.5 | -- | .0 | 0 | 79 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 4 | 26 | 2.0 | 8.4 | .4 | 3.4 | 84 | 69 | 5.3 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 0 | 28 | 2.3 | 8.1 | .4 | 3.5 | 107 | 88 | 2.9 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | |
| 29... | 16 | 2.0 | 100 | <.100 | .170 | .040 | 70 | <10 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | <.100 | .160 | .050 | 190 | 280 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | <.100 | .960 | .510 | 5600 | 3800 |
| 29... | 16 -- | 6.3 | 130 | <.100 | .970 | .490 | 5800 | 3700 |

TABLE 7.--Chemical-quality survey of Lake Conroe, April 29, 1974--continued

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 1740 | 1.00 | 196 | 7.4 | 23.5 | 1.50 | 7.9 | 92 | 74 |
| 29... | 1742 | 10.0 | 196 | 7.2 | 23.0 | -- | 7.0 | 80 | -- |
| 29... | 1744 | 15.0 | 196 | 7.1 | 22.5 | -- | 6.4 | 73 | -- |
| 29... | 1746 | 20.0 | 215 | 6.2 | 21.0 | -- | .0 | 0 | 76 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 7 | 26 | 2.1 | 8.4 | .4 | 3.2 | 82 | 67 | 5.8 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 5 | 26 | 2.6 | 11 | .6 | 3.4 | 86 | 71 | 4.3 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | |
| 29... | 17 | 1.9 | 100 | <.100 | .090 | .050 | 40 | <10 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 21 | 3.0 | 120 | <.100 | .220 | .070 | 1600 | 1400 |

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 1830 | 1.00 | 215 | 6.9 | 23.5 | .90 | 5.6 | 65 | 85 |
| 29... | 1832 | 10.0 | 260 | 6.9 | 23.0 | -- | 4.4 | 51 | -- |
| 29... | 1834 | 20.0 | 335 | 6.6 | 20.0 | -- | .0 | 0 | -- |
| 29... | 1836 | 33.0 | 381 | 6.5 | 19.5 | -- | .0 | 0 | 120 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 10 | 30 | 2.5 | 14 | .7 | 3.5 | 92 | 75 | 7.2 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 19 | 41 | 3.4 | 23 | 1 | 3.6 | 120 | 98 | 8.6 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | |
| 29... | 28 | 4.9 | 140 | <.100 | .150 | .080 | 50 | 160 |
| 29... | -- | -- | -- | <.100 | .160 | .100 | 140 | 290 |
| 29... | -- | -- | -- | <.100 | .410 | .390 | 1700 | 2000 |
| 29... | 50 | 11 | 200 | <.100 | .600 | .590 | 3300 | 1900 |

TABLE 4.--Chemical-quality survey of Lake Conroe, August 30, 1974

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 30... | 0855 | 1.00 | 219 | 7.0 | 28.0 | 1.50 | 4.1 | 52 | 84 |
| 30... | 0858 | 10.0 | 219 | 7.0 | 27.5 | -- | 3.7 | 46 | -- |
| 30... | 0900 | 20.0 | 219 | 6.9 | 27.5 | -- | 2.4 | 30 | -- |
| 30... | 0902 | 30.0 | 240 | 6.8 | 26.0 | -- | .1 | 1 | -- |
| 30... | 0904 | 40.0 | 250 | 6.7 | 22.5 | -- | .2 | 2 | -- |
| 30... | 0906 | 50.0 | 287 | 6.7 | 21.5 | -- | .2 | 2 | 100 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 30... | 6 | 29 | 2.7 | 9.4 | .5 | 3.5 | 95 | 78 | 4.3 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 0 | 36 | 3.0 | 9.4 | .4 | 4.1 | 145 | 119 | 3.5 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 30... | 18 | 3.3 | 120 | <.100 | .140 | .040 | 70 | <10 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | <.100 | .080 | .030 | 90 | <10 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 16 | 13 | 170 | <.100 | 4.00 | .880 | 11000 | 6700 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 30... | 0925 | 1.00 | 219 | 6.9 | 27.5 | 3.8 | 48 |
| 30... | 0928 | 10.0 | 219 | 6.9 | 27.5 | 3.5 | 44 |
| 30... | 0930 | 20.0 | 219 | 6.9 | 27.0 | 3.0 | 37 |
| 30... | 0932 | 30.0 | 240 | 6.8 | 26.0 | .4 | 5 |
| 30... | 0934 | 35.0 | 240 | 6.7 | 24.5 | .3 | 4 |
| 30... | 0936 | 40.0 | 250 | 6.8 | 22.5 | .4 | 5 |
| 30... | 0938 | 48.0 | 287 | 6.7 | 21.5 | .4 | 4 |

TABLE 4.--Chemical-quality survey of Lake Conroe, August 30, 1974--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 30... | 0830 | 1.00 | 221 | 7.1 | 28.0 | 1.20 | 4.2 | 53 | 82 |
| 30... | 0832 | 10.0 | 221 | 7.1 | 28.0 | -- | 4.1 | 52 | -- |
| 30... | 0834 | 20.0 | 221 | 7.1 | 28.0 | -- | 4.0 | 51 | -- |
| 30... | 0836 | 27.0 | 237 | 6.7 | 28.0 | -- | 1.4 | 18 | 89 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 30... | 1 | 29 | 2.4 | 9.7 | .5 | 3.7 | 99 | 81 | 5.5 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 3 | 31 | 2.9 | 9.1 | .4 | 3.5 | 106 | 87 | 4.5 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 30... | 17 | 3.4 | 120 | <.100 | .040 | .030 | 60 | 60 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 17 | 4.6 | 130 | <.100 | .450 | .050 | 890 | 980 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 30... | 1000 | 1.00 | 220 | 7.0 | 28.0 | 5.1 | 65 |
| 30... | 1002 | 10.0 | 220 | 7.0 | 28.0 | 4.9 | 62 |
| 30... | 1004 | 20.0 | 220 | 6.9 | 27.5 | 4.6 | 58 |
| 30... | 1006 | 30.0 | 220 | 6.8 | 27.0 | 4.4 | 54 |
| 30... | 1008 | 40.0 | 260 | 6.4 | 23.0 | .4 | 5 |
| 30... | 1010 | 55.0 | 280 | 6.3 | 23.0 | .4 | 5 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 30... | 0945 | 1.00 | 220 | 7.1 | 28.0 | 5.5 | 70 |
| 30... | 0948 | 10.0 | 220 | 7.1 | 28.0 | 5.4 | 68 |
| 30... | 0950 | 20.0 | 220 | 7.1 | 27.5 | 5.0 | 62 |
| 30... | 0952 | 30.0 | 220 | 6.7 | 26.0 | .4 | 5 |
| 30... | 0954 | 37.0 | 260 | 6.6 | 24.0 | .4 | 5 |

TABLE 4.--Chemical-quality survey of Lake Conroe, August 30, 1974--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 30... | 1020 | 1.00 | 219 | 7.0 | 28.5 | 4.8 | 62 | 81 |
| 30... | 1022 | 10.0 | 219 | 7.0 | 28.5 | 4.8 | 62 | -- |
| 30... | 1024 | 20.0 | 219 | 6.9 | 28.0 | 4.5 | 57 | -- |
| 30... | 1026 | 25.0 | 219 | 7.0 | 28.0 | 4.5 | 57 | 81 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 30... | 2 | 28 | 2.6 | 9.5 | .5 | 3.5 | 96 | 79 | 4.6 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 4 | 28 | 2.7 | 9.7 | .5 | 3.4 | 94 | 77 | 4.6 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 30... | 17 | 3.3 | 120 | <.100 | .040 | .040 | 20 | <10 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 17 | 3.2 | 110 | <.100 | .200 | .140 | 50 | 30 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 30... | 1050 | 1.00 | 219 | 7.2 | 28.5 | 1.30 | 4.6 | 59 | 89 |
| 30... | 1052 | 10.0 | 219 | 7.2 | 28.0 | -- | 4.6 | 58 | -- |
| 30... | 1054 | 20.0 | 219 | 7.0 | 28.0 | -- | 4.6 | 58 | -- |
| 30... | 1056 | 30.0 | 219 | 7.0 | 28.0 | -- | 4.2 | 53 | -- |
| 30... | 1058 | 39.0 | 297 | 6.3 | 26.0 | -- | .4 | 5 | 110 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 30... | 11 | 31 | 2.8 | 9.5 | .5 | 3.4 | 95 | 78 | 4.3 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 0 | 37 | 3.4 | 11 | .5 | 4.0 | 144 | 118 | 2.3 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 30... | 17 | 3.4 | 120 | <.100 | .090 | .040 | 110 | 20 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | <.100 | .100 | .040 | 690 | 600 |
| 30... | 18 | 8.1 | 170 | <.100 | 1.90 | .560 | 8700 | 4800 |

TABLE 4.--Chemical-quality survey of Lake Conroe, August 30, 1974--continued

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 30... | 1130 | 1.00 | 220 | 6.9 | 29.0 | 3.6 | 46 | 88 |
| 30... | 1132 | 10.0 | 220 | 6.8 | 28.5 | 3.0 | 38 | -- |
| 30... | 1134 | 21.0 | 244 | 6.4 | 28.5 | 1.2 | 15 | 97 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 30... | 10 | 31 | 2.5 | 10 | .5 | 2.4 | 95 | 78 | 4.1 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 8 | 34 | 3.0 | 9.9 | .5 | 4.1 | 108 | 89 | 4.1 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 30... | 18 | 3.5 | 120 | <.100 | .100 | .040 | 110 | 50 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 19 | 7.0 | 140 | .050 | .640 | .100 | 3800 | 1800 |

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 30... | 1205 | 1.00 | 247 | 6.9 | 28.0 | .80 | 4.0 | 51 | 90 |
| 30... | 1207 | 10.0 | 247 | 6.9 | 27.5 | -- | 3.9 | 49 | -- |
| 30... | 1210 | 20.0 | 247 | 6.9 | 27.5 | -- | 3.8 | 48 | -- |
| 30... | 1212 | 35.0 | 247 | 6.8 | 28.0 | -- | 3.8 | 48 | 90 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 30... | 5 | 31 | 3.0 | 11 | .5 | 3.7 | 104 | 85 | 4.0 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 9 | 31 | 3.1 | 12 | .6 | 3.5 | 99 | 81 | 4.7 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 30... | 21 | 6.1 | 130 | <.100 | .180 | .070 | 120 | <10 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 21 | 5.6 | 130 | .010 | .060 | .070 | 130 | 60 |

TABLE 5.--Chemical-quality survey of Lake Conroe, Feburary 12, 1975

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 1130 | 1.00 | 206 | 8.0 | 13.5 | 1.00 | 7.3 | 70 | 76 |
| 12... | 1132 | 10.0 | 206 | 7.9 | 13.0 | -- | 7.3 | 69 | -- |
| 12... | 1134 | 20.0 | 206 | 7.8 | 13.0 | -- | 7.3 | 69 | -- |
| 12... | 1136 | 30.0 | 206 | 7.6 | 13.0 | -- | 7.2 | 68 | -- |
| 12... | 1138 | 40.0 | 206 | 7.6 | 13.0 | -- | 7.2 | 68 | -- |
| 12... | 1140 | 47.0 | 206 | 7.6 | 13.0 | -- | 7.2 | 68 | 76 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 5 | 27 | 2.2 | 8.5 | .4 | 3.1 | 88 | 72 | 4.8 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 4 | 27 | 2.0 | 8.2 | .4 | 3.2 | 88 | 72 | 4.9 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 15 | .10 | 4.6 | 110 | .230 | .030 | .030 | 20 | <10 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | .230 | .040 | .020 | <10 | <10 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 16 | .10 | 4.7 | 110 | .230 | .020 | .130 | 20 | <10 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 1100 | 1.00 | 206 | 7.6 | 13.0 | .80 | 7.3 | 69 | 79 |
| 12... | 1102 | 10.0 | 210 | 7.5 | 13.0 | -- | 7.2 | -- | -- |
| 12... | 1104 | 20.0 | 210 | 7.5 | 12.5 | -- | 7.1 | 66 | -- |
| 12... | 1106 | 30.0 | 216 | 7.3 | 12.5 | -- | 7.0 | 65 | 83 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 3 | 28 | 2.2 | 7.8 | .4 | 3.2 | 93 | 76 | 4.6 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 3 | 30 | 2.0 | 7.7 | .4 | 3.3 | 98 | 80 | 5.2 |

TABLE 5.- Chemical-quality survey of Lake Conroe, February 12, 1975--continued

302245095365301 SITE $B_C$--continued

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 15 | .10 | 4.3 | 110 | .190 | .030 | .020 | 40 | <10 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | .190 | .020 | .040 | 20 | <10 |
| 12... | 15 | .10 | 4.7 | 120 | .180 | .080 | .030 | 30 | <10 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 12... | 1200 | 1.00 | 205 | 7.7 | 13.5 | 7.1 | 68 |
| 12... | 1202 | 10.0 | 205 | 7.6 | 13.0 | 7.3 | 69 |
| 12... | 1204 | 20.0 | 205 | 7.6 | 13.0 | 7.3 | 69 |
| 12... | 1206 | 30.0 | 205 | 7.6 | 13.0 | 7.3 | 69 |
| 12... | 1208 | 40.0 | 205 | 7.6 | 13.0 | 7.3 | 69 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 1220 | 1.00 | 210 | 7.5 | 13.0 | 1.10 | 8.0 | 75 | 75 |
| 12... | 1222 | 10.0 | 210 | 7.5 | 13.0 | -- | 8.0 | 75 | -- |
| 12... | 1224 | 20.0 | 210 | 7.5 | 13.0 | -- | 8.0 | 75 | -- |
| 12... | 1226 | 33.0 | 210 | 7.5 | 13.0 | -- | 8.0 | 75 | 74 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 5 | 26 | 2.5 | 9.4 | .5 | 3.0 | 85 | 70 | 4.9 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 3 | 26 | 2.2 | 9.4 | .5 | 3.3 | 86 | 71 | 5.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 17 | .10 | 5.0 | 110 | .180 | .030 | .020 | 20 | <10 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 18 | .10 | 5.1 | 110 | .180 | .090 | .070 | 20 | 90 |

TABLE 5.--Chemical-quality survey of Lake Conroe, February 12, 1975--continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 1415 | 1.00 | 204 | 7.4 | 13.0 | .90 | 7.2 | 68 | 76 |
| 12... | 1418 | 10.0 | 204 | 7.4 | 13.0 | -- | 7.2 | 68 | -- |
| 12... | 1420 | 20.0 | 204 | 7.4 | 13.0 | -- | 7.2 | 68 | -- |
| 12... | 1422 | 30.0 | 204 | 7.4 | 13.0 | -- | 7.1 | 67 | -- |
| 12... | 1424 | 42.0 | 204 | 7.3 | 13.0 | -- | 7.0 | 66 | 74 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 9 | 27 | 2.2 | 9.0 | .5 | 2.9 | 83 | 68 | 5.5 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 6 | 26 | 2.2 | 9.0 | .5 | 3.3 | 83 | 68 | 5.7 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 17 | .10 | 5.3 | 110 | .230 | .040 | .020 | 20 | <10 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | .230 | .050 | .030 | 40 | <10 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 17 | .10 | 5.6 | 110 | .230 | .050 | .040 | <10 | <10 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 1300 | 1.00 | 199 | 7.2 | 14.0 | .90 | 6.8 | 65 | 69 |
| 12... | 1302 | 10.0 | 199 | 7.2 | 13.0 | -- | 7.0 | 66 | -- |
| 12... | 1304 | 21.0 | 199 | 7.0 | 13.0 | -- | 7.0 | 66 | 69 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 7 | 24 | 2.3 | 9.4 | .5 | 3.1 | 77 | 63 | 5.3 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 8 | 24 | 2.3 | 9.0 | .5 | 3.0 | 76 | 62 | 5.7 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 18 | .10 | 5.4 | 110 | .180 | .030 | .030 | 40 | <10 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 18 | .10 | 5.4 | 110 | .180 | .080 | .030 | 280 | 70 |

TABLE 5.--Chemical-quality survey of Lake Conroe, February 12, 1975--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 1330 | 1.00 | 142 | 6.9 | 12.5 | 6.5 | 61 | 44 | 7 |
| 12... | 1332 | 10.0 | 145 | 6.9 | 12.5 | 6.5 | 61 | -- | -- |
| 12... | 1334 | 18.0 | 151 | 6.9 | 12.5 | 6.5 | 61 | 47 | 7 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 12... | 15 | 1.7 | 9.3 | .6 | 2.7 | 46 | -- | 6.4 | 15 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 16 | 1.8 | 9.6 | .6 | 2.4 | 49 | 40 | 6.8 | 17 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 12... | .10 | 9.8 | 83 | .060 | .060 | .120 | 160 | 40 |
| 12... | -- | -- | -- | .050 | .080 | .120 | 210 | 40 |
| 12... | .10 | 9.5 | 87 | .060 | .060 | .120 | 140 | 50 |

TABLE 6.--Chemical-quality survey of Lake Conroe, May. 19, 19/4

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

30212/095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 1530 | 1.00 | 208 | 7.6 | 25.5 | 1.50 | 4.8 | 58 | 74 |
| 19... | 1532 | 10.0 | 208 | 7.2 | 24.5 | -- | 3.3 | 39 | -- |
| 19... | 1534 | 20.0 | 208 | 7.1 | 24.0 | -- | 2.1 | 25 | -- |
| 19... | 1536 | 30.0 | 215 | 7.0 | 22.0 | -- | 1.6 | 18 | -- |
| 19... | 1538 | 40.0 | 215 | 7.0 | 20.0 | -- | 1.6 | 17 | -- |
| 19... | 1540 | 55.0 | 241 | 7.1 | 19.5 | -- | 1.6 | 17 | 87 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 5 | 26 | 2.3 | 9.6 | .5 | 3.2 | 85 | 70 | 3.7 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 0 | 31 | 2.3 | 10 | .5 | 3.4 | 110 | 90 | 3.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 17 | .10 | 4.0 | 110 | .010 | <.010 | .010 | 20 | <10 |
| 19... | -- | -- | -- | -- | .030 | .030 | .020 | 40 | 80 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | .200 | .020 | .010 | 40 | 560 |
| 19... | 17 | .10 | 7.6 | 130 | <.100 | .350 | .120 | 120 | 3600 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 19... | 1505 | 1.00 | 210 | 7.5 | 25.5 | 5.5 | 66 |
| 19... | 1507 | 10.0 | 210 | 7.3 | 24.5 | 4.0 | 48 |
| 19... | 1510 | 20.0 | 210 | 7.0 | 23.5 | 2.2 | 26 |
| 19... | 1512 | 30.0 | 210 | 7.0 | 22.0 | 1.9 | 22 |
| 19... | 1514 | 40.0 | 215 | 7.0 | 20.0 | 1.9 | 21 |
| 19... | 1516 | 54.0 | 250 | 7.2 | 19.0 | 1.9 | 20 |

TABLE 6.--Chemical-quality survey of Lake Conroe, May 19, 1975--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 1430 | 1.00 | 206 | 8.1 | 27.5 | 1.00 | 6.2 | 78 | 76 |
| 19... | 1432 | 10.0 | 206 | 7.1 | 26.5 | -- | 3.4 | 41 | -- |
| 19... | 1434 | 20.0 | 210 | 6.9 | 25.0 | -- | 1.9 | 23 | -- |
| 19... | 1436 | 29.0 | 226 | 6.8 | 24.0 | -- | 1.9 | 22 | 81 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 4 | 27 | 2.0 | 8.7 | .5 | 3.1 | 88 | 72 | 3.3 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 0 | 29 | 2.2 | 8.6 | .4 | 3.2 | 100 | 82 | 2.5 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 16 | .10 | 4.0 | 110 | <.100 | <.010 | .020 | 30 | <10 |
| 19... | -- | -- | -- | -- | .010 | .010 | .020 | 110 | 230 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 15 | .10 | 5.9 | 120 | <.100 | .520 | .030 | 1100 | 2300 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 19... | 1610 | 1.00 | 208 | 7.9 | 25.0 | 4.0 | 48 |
| 19... | 1612 | 10.0 | 208 | 7.9 | 25.0 | 4.0 | 48 |
| 19... | 1614 | 20.0 | 210 | 7.8 | 24.5 | 4.0 | 48 |
| 19... | 1616 | 30.0 | 213 | 7.0 | 22.0 | 3.0 | 34 |
| 19... | 1618 | 40.0 | 220 | 7.0 | 20.5 | 2.0 | 22 |
| 19... | 1620 | 47.0 | 225 | 7.1 | 21.0 | 2.0 | 22 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 19... | 1555 | 1.00 | 206 | 8.1 | 26.0 | 6.7 | 82 |
| 19... | 1557 | 10.0 | 205 | 8.0 | 25.5 | 6.2 | 75 |
| 19... | 1559 | 20.0 | 205 | 8.0 | 25.0 | 5.0 | 60 |
| 19... | 1601 | 30.0 | 210 | 7.0 | 22.5 | 2.1 | 24 |
| 19... | 1603 | 40.0 | 215 | 7.0 | 21.0 | 2.1 | 23 |
| 19... | 1605 | 47.0 | 220 | 7.1 | 20.5 | 2.1 | 23 |

TABLE 6.--Chemical-quality survey of Lake Conroe, May 19, 1975--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 1630 | 1.00 | 201 | 8.1 | 27.0 | 1.30 | 7.8 | 96 | 71 |
| 19... | 1632 | 10.0 | 205 | 7.3 | 25.0 | -- | 5.0 | 60 | -- |
| 19... | 1634 | 20.0 | 196 | 6.9 | 24.0 | -- | 1.6 | 19 | -- |
| 19... | 1636 | 27.0 | 196 | 6.8 | 21.5 | -- | .6 | 7 | 69 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 5 | 25 | 2.1 | 10 | .5 | 3.1 | 80 | 66 | 3.6 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 5 | 24 | 2.2 | 7.8 | .4 | 3.0 | 78 | 64 | 2.9 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 18 | .10 | 4.0 | 110 | <.100 | <.010 | .020 | 30 | <10 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | .020 | .040 | .010 | 40 | 60 |
| 19... | 16 | .10 | 4.8 | 100 | <.100 | .080 | .020 | 40 | 410 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 1700 | 1.00 | 207 | 8.0 | 25.5 | 1.60 | 6.9 | 83 | 74 |
| 19... | 1702 | 10.0 | 205 | 8.0 | 25.5 | -- | 6.8 | 82 | -- |
| 19... | 1704 | 20.0 | 200 | 7.5 | 25.0 | -- | 5.7 | 68 | -- |
| 19... | 1706 | 30.0 | 200 | 6.8 | 23.0 | -- | .4 | 5 | -- |
| 19... | 1708 | 37.0 | 242 | 7.1 | 21.5 | -- | .4 | 4 | 86 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 8 | 26 | 2.3 | 9.7 | .5 | 3.3 | 82 | 67 | 4.0 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 0 | 30 | 2.8 | 11 | .5 | 3.4 | 110 | 90 | 2.5 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 18 | .10 | 4.0 | 110 | <.100 | <.010 | .010 | 30 | <10 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | <.100 | .020 | .020 | 30 | 40 |
| 19... | -- | -- | -- | -- | .040 | .080 | .030 | 150 | 700 |
| 19... | 18 | .10 | 7.2 | 130 | .010 | .560 | .100 | 1200 | 4200 |

TABLE 6.--Chemical-quality survey of Lake Conroe, May 19, 1975--continued

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 1730 | 1.00 | 196 | 8.1 | 26.5 | 1.20 | 8.3 | 101 | 69 |
| 19... | 1732 | 10.0 | 200 | 7.5 | 25.5 | -- | 6.4 | 77 | -- |
| 19... | 1734 | 19.0 | 180 | 6.8 | 25.0 | -- | 3.0 | 36 | 64 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 9 | 24 | 2.3 | 9.6 | .5 | 3.0 | 74 | 61 | 3.5 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 8 | 22 | 2.1 | 9.3 | .5 | 3.0 | 68 | 56 | 3.3 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 18 | .10 | 3.8 | 100 | <.100 | .010 | .030 | 70 | <10 |
| 19... | -- | -- | -- | -- | <.100 | .010 | .020 | 40 | <10 |
| 19... | 16 | .10 | 4.0 | 93 | <.100 | <.010 | .020 | 70 | <10 |

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 1800 | 1.00 | 154 | 7.6 | 26.5 | .70 | 7.8 | 95 | 50 |
| 19... | 1802 | 10.0 | 115 | 6.4 | 24.0 | -- | 1.6 | 19 | -- |
| 19... | 1804 | 20.0 | 118 | 6.4 | 23.0 | -- | 1.0 | 11 | -- |
| 19... | 1806 | 35.0 | 121 | 6.4 | 22.5 | -- | .4 | 5 | 40 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 5 | 17 | 1.8 | 9.0 | .6 | 2.9 | 55 | 45 | 3.6 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 2 | 14 | 1.3 | 6.2 | .4 | 2.5 | 46 | 38 | 3.7 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 19... | 14 | .10 | 6.5 | 82 | <.100 | .020 | .070 | 110 | 20 |
| 19... | -- | -- | -- | -- | <.100 | .030 | .160 | 270 | 250 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 9.2 | .10 | 9.1 | 70 | <.100 | .230 | .260 | 1000 | 530 |

TABLE 7.--Chemical-quality survey of Lake Conroe, August 28, 1975

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 1630 | 1.00 | 210 | 7.7 | 29.5 | .90 | 6.2 | 81 | 77 |
| 28... | 1632 | 10.0 | 210 | 7.4 | 29.0 | -- | 4.8 | 62 | -- |
| 28... | 1634 | 20.0 | 210 | 7.4 | 28.5 | -- | 4.6 | 59 | -- |
| 28... | 1636 | 25.0 | 210 | 7.4 | 28.5 | -- | 4.6 | 59 | -- |
| 28... | 1638 | 30.0 | 230 | 7.0 | 26.0 | -- | .2 | 2 | -- |
| 28... | 1640 | 40.0 | 240 | 6.9 | 22.0 | -- | .2 | 2 | -- |
| 28... | 1642 | 52.0 | 275 | 6.8 | 20.0 | -- | .2 | 2 | 95 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 0 | 27 | 2.3 | 9.9 | .5 | 3.1 | 94 | 77 | 4.5 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 0 | 34 | 2.5 | 9.4 | .4 | 3.5 | 140 | 115 | 2.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 17 | .20 | 4.6 | 110 | <.100 | <.010 | .010 | 60 | 40 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | <.100 | <.010 | .010 | 100 | 350 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | <.100 | <.010 | .020 | 1100 | 3200 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 18 | .10 | 12 | 160 | <.100 | 1.90 | .390 | 4800 | 5000 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 28... | 1615 | 1.00 | 210 | 7.7 | 29.5 | 6.4 | 83 |
| 28... | 1617 | 10.0 | 210 | 7.4 | 28.5 | 5.1 | 65 |
| 28... | 1620 | 20.0 | 210 | 7.3 | 28.5 | 4.5 | 58 |
| 28... | 1622 | 30.0 | 230 | 7.0 | 26.5 | .3 | 4 |
| 28... | 1624 | 40.0 | 240 | 6.9 | 21.5 | .3 | 3 |
| 28... | 1626 | 53.0 | 275 | 6.6 | 20.0 | .3 | 3 |

TABLE 7.--Chemical-quality survey of Lake Conroe, August 28, 1975--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 1600 | 1.00 | 212 | 7.9 | 30.5 | .90 | 7.0 | 92 | 79 |
| 28... | 1602 | 10.0 | 212 | 7.4 | 29.5 | -- | 5.2 | 68 | -- |
| 28... | 1604 | 20.0 | 212 | 7.4 | 29.5 | -- | 5.2 | 68 | -- |
| 28... | 1606 | 25.0 | 214 | 7.0 | 29.5 | -- | 1.2 | 15 | -- |
| 28... | 1608 | 31.0 | 255 | 6.7 | 28.5 | -- | .6 | 8 | 95 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 4 | 28 | 2.2 | 9.4 | .5 | 3.0 | 92 | 75 | 3.0 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 0 | 34 | 2.5 | 9.3 | .4 | 3.4 | 130 | 107 | 1.9 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 18 | .10 | 4.7 | 110 | <.100 | <.010 | .090 | 20 | <10 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | <.100 | <.010 | .010 | 250 | 200 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 17 | .10 | 7.8 | 150 | <.100 | <.010 | .030 | 3300 | 2000 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 28... | 1715 | 1.00 | 208 | 7.9 | 30.0 | 6.8 | 89 |
| 28... | 1717 | 10.0 | 208 | 7.5 | 29.0 | 5.2 | 67 |
| 28... | 1719 | 20.0 | 208 | 7.4 | 29.0 | 5.0 | 64 |
| 28... | 1721 | 25.0 | 208 | 7.3 | 28.5 | 4.3 | 55 |
| 28... | 1723 | 30.0 | 230 | 7.0 | 26.5 | .2 | 2 |
| 28... | 1725 | 40.0 | 270 | 6.8 | 22.0 | .2 | 2 |
| 28... | 1727 | 47.0 | 280 | 6.8 | 21.5 | .2 | 2 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 28... | 1700 | 1.00 | 208 | 7.9 | 30.0 | 6.6 | 87 |
| 28... | 1702 | 10.0 | 208 | 7.4 | 29.0 | 5.0 | 64 |
| 28... | 1704 | 20.0 | 208 | 7.4 | 28.5 | 4.5 | 58 |
| 28... | 1706 | 30.0 | 230 | 7.0 | 26.5 | .2 | 2 |
| 28... | 1708 | 40.0 | 270 | 6.8 | 22.0 | .2 | 2 |
| 28... | 1710 | 47.0 | 270 | 6.9 | 22.0 | .2 | 2 |

TABLE 7.--Chemical-quality survey of Lake Conroe, August 28, 1975--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 1740 | 1.00 | 208 | 8.2 | 30.5 | 1.00 | 7.9 | 104 | 84 |
| 28... | 1742 | 10.0 | 208 | 7.5 | 29.5 | -- | 5.0 | 65 | -- |
| 28... | 1744 | 20.0 | 208 | 7.3 | 29.0 | -- | 4.3 | 55 | -- |
| 28... | 1746 | 26.0 | 208 | 7.1 | 29.0 | -- | 3.6 | 46 | 76 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 13 | 30 | 2.3 | 9.5 | .5 | 3.0 | 88 | 72 | 3.1 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 5 | 27 | 2.2 | 9.5 | .5 | 3.1 | 88 | 72 | 3.4 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 18 | .10 | 4.7 | 110 | <.100 | <.010 | .060 | 210 | 20 |
| 28... | -- | -- | -- | -- | <.100 | <.010 | .020 | 60 | 20 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 18 | .10 | 4.7 | 110 | <.100 | <.010 | .040 | 60 | 100 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 1800 | 1.00 | 207 | 8.4 | 31.0 | 8.4 | 112 | 84 | 13 |
| 28... | 1802 | 10.0 | 207 | 7.7 | 29.0 | 5.8 | 74 | -- | -- |
| 28... | 1804 | 20.0 | 207 | 7.4 | 28.5 | 5.2 | 67 | -- | -- |
| 28... | 1806 | 30.0 | 250 | 6.7 | 26.0 | .2 | 2 | -- | -- |
| 28... | 1808 | 40.0 | 301 | 6.6 | 24.0 | .2 | 2 | 110 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 30 | 2.3 | 9.6 | .5 | 3.0 | 88 | 72 | 3.9 | 18 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 41 | 2.9 | 9.8 | .4 | 3.6 | 150 | 123 | <1.0 | 18 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 28... | .10 | 4.6 | 110 | <.100 | <.010 | .030 | 30 | 40 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | <.100 | <.010 | .030 | 140 | 270 |
| 28... | -- | -- | -- | <.100 | .270 | .170 | 3600 | 4200 |
| 28... | .10 | 14 | 179 | <.100 | 1.10 | .830 | 8100 | 4900 |

TABLE 7.--Chemical-quality survey of Lake Conroe, August 28, 1975--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 1740 | 1.00 | 208 | 8.2 | 30.5 | 1.00 | 7.9 | 104 | 84 |
| 28... | 1742 | 10.0 | 208 | 7.5 | 29.5 | -- | 5.0 | 65 | -- |
| 28... | 1744 | 20.0 | 208 | 7.3 | 29.0 | -- | 4.3 | 55 | -- |
| 28... | 1746 | 26.0 | 208 | 7.1 | 29.0 | -- | 3.6 | 46 | 76 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 13 | 30 | 2.3 | 9.5 | .5 | 3.0 | 88 | 72 | 3.1 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 5 | 27 | 2.2 | 9.5 | .5 | 3.1 | 88 | 72 | 3.4 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 18 | .10 | 4.7 | 110 | <.100 | <.010 | .060 | 210 | 20 |
| 28... | -- | -- | -- | -- | <.100 | <.010 | .020 | 60 | 20 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 18 | .10 | 4.7 | 110 | <.100 | <.010 | .040 | 60 | 100 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 1800 | 1.00 | 207 | 8.4 | 31.0 | 8.4 | 112 | 84 | 13 |
| 28... | 1802 | 10.0 | 207 | 7.7 | 29.0 | 5.8 | 74 | -- | -- |
| 28... | 1804 | 20.0 | 207 | 7.4 | 28.5 | 5.2 | 67 | -- | -- |
| 28... | 1806 | 30.0 | 250 | 6.7 | 26.0 | .2 | 2 | -- | -- |
| 28... | 1808 | 40.0 | 301 | 6.6 | 24.0 | .2 | 2 | 110 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 30 | 2.3 | 9.6 | .5 | 3.0 | 88 | 72 | 3.9 | 18 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 41 | 2.9 | 9.8 | .4 | 3.6 | 150 | 123 | <1.0 | 18 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 28... | .10 | 4.6 | 110 | <.100 | <.010 | .030 | 30 | 40 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | <.100 | <.010 | .030 | 140 | 270 |
| 28... | -- | -- | -- | <.100 | .270 | .170 | 3600 | 4200 |
| 28... | .10 | 14 | 179 | <.100 | 1.10 | .830 | 8100 | 4900 |

TABLE 7.--Chemical-quality survey of Lake Conroe, August 28, 1975--continued

302714095372201 SITE F

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 1825 | 1.00 | 205 | 8.5 | 31.0 | 1.00 | 9.0 | 120 | 80 |
| 28... | 1827 | 10.0 | 205 | 7.4 | 29.5 | -- | 4.5 | 58 | -- |
| 28... | 1829 | 15.0 | 205 | 7.4 | 29.5 | -- | 4.5 | 58 | -- |
| 28... | 1831 | 24.0 | 214 | 6.7 | 29.0 | -- | .4 | 5 | 79 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 8 | 29 | 1.8 | 9.8 | .5 | 3.0 | 88 | 72 | 3.7 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 5 | 28 | 2.3 | 9.9 | .5 | 3.1 | 92 | 75 | 3.4 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 17 | .10 | 4.7 | 110 | <.100 | <.010 | .050 | 30 | 20 |
| 28... | -- | -- | -- | -- | .010 | <.010 | .020 | 60 | 100 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 19 | .10 | 5.8 | 120 | .010 | .070 | .120 | 570 | 920 |

303129095360501 SITE G

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 1900 | 1.00 | 218 | 8.2 | 31.0 | .80 | 8.8 | 117 | 76 |
| 28... | 1902 | 10.0 | 218 | 7.3 | 29.0 | -- | 4.9 | 63 | -- |
| 28... | 1904 | 20.0 | 218 | 7.1 | 28.5 | -- | 3.7 | 47 | -- |
| 28... | 1906 | 30.0 | 218 | 7.1 | 28.5 | -- | 3.7 | 47 | -- |
| 28... | 1908 | 35.0 | 221 | 7.1 | 28.5 | -- | 3.6 | 46 | 74 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 6 | 27 | 2.2 | 11 | .6 | 3.2 | 86 | 71 | 3.4 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 6 | 26 | 2.3 | 12 | .6 | 3.1 | 84 | 69 | 3.9 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 28... | 21 | .10 | 6.3 | 120 | .010 | <.010 | .020 | 130 | <10 |
| 28... | -- | -- | -- | -- | .010 | <.010 | .020 | 20 | 20 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 22 | .10 | 7.2 | 120 | <.100 | <.010 | .030 | 30 | 90 |

TABLE 8.--Chemical-quality survey of Lake Conroe, January 16, 1976

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 0945 | 1.00 | 224 | 7.8 | 10.5 | .80 | 10.8 | 96 | 83 |
| 16... | 0948 | 10.0 | 224 | 7.8 | 10.5 | -- | 10.6 | 95 | -- |
| 16... | 0950 | 20.0 | 224 | 7.7 | 10.0 | -- | 10.6 | 94 | -- |
| 16... | 0952 | 30.0 | 224 | 7.6 | 10.0 | -- | 10.3 | 91 | -- |
| 16... | 0954 | 40.0 | 224 | 7.6 | 10.0 | -- | 9.8 | 87 | -- |
| 16... | 0956 | 50.0 | 224 | 7.5 | 10.0 | -- | 9.5 | 84 | -- |
| 16... | 0958 | 58.0 | 234 | 7.2 | 9.5 | -- | 6.2 | 54 | 89 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 8 | 30 | 1.9 | 10 | .5 | 2.9 | 92 | 75 | 3.8 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 9 | 32 | 2.1 | 10 | .5 | 2.9 | 97 | 80 | 4.5 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 18 | .20 | 4.4 | 120 | .140 | .010 | .030 | <10 | <10 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | .100 | .030 | .030 | <10 | <10 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 19 | .20 | 5.9 | 120 | .210 | .200 | .060 | 30 | 240 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 16... | 1005 | 1.00 | 224 | 7.8 | 10.5 | 10.8 | 96 |
| 16... | 1008 | 10.0 | 224 | 7.8 | 10.5 | 10.7 | 96 |
| 16... | 1010 | 20.0 | 224 | 7.8 | 10.5 | 10.7 | 96 |
| 16... | 1012 | 30.0 | 224 | 7.8 | 10.5 | 10.7 | 96 |
| 16... | 1014 | 40.0 | 224 | 7.6 | 10.0 | 9.9 | 88 |
| 16... | 1016 | 50.0 | 230 | 7.4 | 9.5 | 8.4 | 74 |

TABLE 8.--Chemical-quality survey of Lake Conroe, January 16, 1976--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 0915 | 1.00 | 229 | 7.8 | 11.0 | .80 | 11.0 | 99 | 88 |
| 16... | 0917 | 10.0 | 229 | 7.8 | 10.5 | -- | 11.0 | 98 | -- |
| 16... | 0919 | 20.0 | 229 | 7.7 | 10.5 | -- | 10.7 | 96 | -- |
| 16... | 0921 | 27.0 | 237 | 7.1 | 9.5 | -- | 7.0 | 61 | 91 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 8 | 32 | 2.0 | 10 | .5 | 3.0 | 97 | 80 | 4.1 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 9 | 33 | 2.1 | 11 | .5 | 3.0 | 100 | 82 | 4.3 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 18 | .30 | 4.4 | 120 | .140 | .010 | .030 | <10 | <10 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | .140 | .010 | .030 | <10 | <10 |
| 16... | 18 | .20 | 4.9 | 130 | .130 | .020 | .050 | <10 | <10 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 16... | 1030 | 1.00 | 224 | 7.8 | 10.5 | 10.9 | 97 |
| 16... | 1032 | 10.0 | 224 | 7.8 | 10.5 | 10.8 | 96 |
| 16... | 1034 | 20.0 | 224 | 7.8 | 10.5 | 10.7 | 96 |
| 16... | 1036 | 30.0 | 224 | 7.8 | 10.5 | 10.6 | 95 |
| 16... | 1038 | 40.0 | 224 | 7.6 | 10.0 | 9.9 | 88 |
| 16... | 1040 | 56.0 | 224 | 7.5 | 10.0 | 9.2 | 81 |

302320095334001 SITE CL

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 16... | 1020 | 1.00 | 224 | 7.8 | 10.5 | 10.9 | 97 |
| 16... | 1022 | 10.0 | 224 | 7.8 | 10.5 | 10.7 | 96 |
| 16... | 1024 | 20.0 | 224 | 7.7 | 10.5 | 10.5 | 94 |
| 16... | 1026 | 30.0 | 224 | 7.7 | 10.0 | 10.5 | 93 |
| 16... | 1028 | 43.0 | 224 | 7.6 | 10.0 | 9.7 | 86 |

TABLE 8.--Chemical-quality survey of Lake Conroe, January 16, 1976--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 1100 | 1.00 | 223 | 7.8 | 11.0 | .90 | 10.9 | 98 | 81 |
| 16... | 1102 | 10.0 | 223 | 7.8 | 11.0 | -- | 10.7 | 96 | -- |
| 16... | 1104 | 20.0 | 223 | 7.3 | 10.0 | -- | 9.0 | 80 | -- |
| 16... | 1106 | 27.0 | 223 | 7.3 | 10.0 | -- | 8.7 | 77 | 81 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 6 | 29 | 2.0 | 10 | .5 | 3.0 | 92 | 75 | 4.9 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 6 | 29 | 2.0 | 10 | .5 | 2.9 | 92 | 75 | 4.1 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 19 | .20 | 4.2 | 120 | .080 | .020 | .030 | 50 | <10 |
| 16... | -- | -- | -- | -- | .130 | .020 | .030 | 20 | <10 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 19 | .20 | 4.5 | 120 | .130 | .030 | .050 | <10 | <10 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 1130 | 1.00 | 222 | 7.7 | 11.0 | 10.5 | 95 | 81 | 7 |
| 16... | 1132 | 10.0 | 222 | 7.7 | 11.0 | 10.5 | 95 | -- | -- |
| 16... | 1134 | 20.0 | 222 | 7.7 | 11.0 | 10.5 | 95 | -- | -- |
| 16... | 1136 | 32.0 | 222 | 7.6 | 11.0 | 10.2 | 92 | 81 | 7 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 29 | 2.1 | 10 | .5 | 3.0 | 90 | 74 | 4.1 | 19 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 29 | 2.0 | 10 | .5 | 3.0 | 90 | 74 | 4.6 | 19 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | |
| 16... | .20 | 4.3 | 120 | .120 | .020 | .040 | 30 | <10 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | .150 | .010 | .040 | 40 | <10 |
| 16... | .30 | 4.3 | 120 | .110 | .010 | .040 | <10 | <10 |

TABLE 8.--Chemical-quality survey of Lake Conroe, January 16, 1976--continued

302714095372201 SITE $F_c$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 1200 | 1.00 | 220 | 8.0 | 11.5 | 11.2 | 98 | 81 | 9 |
| 16... | 1202 | 10.0 | 220 | 7.9 | 11.0 | 11.0 | 100 | -- | -- |
| 16... | 1205 | 24.0 | 220 | 7.0 | 10.0 | 6.1 | 54 | 79 | 10 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 29 | 2.0 | 10 | .5 | 3.0 | 88 | 72 | 4.4 | 19 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 28 | 2.1 | 10 | .5 | 3.0 | 84 | 69 | 5.9 | 21 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | |
| 16... | .20 | 3.9 | 110 | .050 | .020 | .030 | <10 | <10 |
| 16... | -- | -- | -- | .040 | .010 | .030 | <10 | <10 |
| 16... | .20 | 4.3 | 120 | .060 | .060 | .040 | <10 | <10 |

303129095360501 SITE $G_c$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 1240 | 1.00 | 266 | 7.7 | 11.0 | .60 | 10.8 | 97 | 84 |
| 16... | 1242 | 10.0 | 266 | 7.6 | 11.0 | -- | 10.8 | 97 | -- |
| 16... | 1244 | 20.0 | 276 | 7.6 | 11.0 | -- | 10.6 | 95 | -- |
| 16... | 1246 | 34.0 | 302 | 7.3 | 10.5 | -- | 9.1 | 81 | 92 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 18 | 30 | 2.3 | 16 | .8 | 3.6 | 82 | 67 | 7.9 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 27 | 33 | 2.4 | 19 | .9 | 4.0 | 79 | 65 | 11 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 16... | 32 | .20 | 6.5 | 140 | .040 | .030 | .060 | <10 | <10 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | .020 | .030 | .060 | 70 | <10 |
| 16... | 38 | .30 | 8.5 | 160 | .110 | .110 | .060 | 50 | 100 |

TABLE 9.--Chemical-quality survey of Lake Conroe, April 28, 1976

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 1715 | 1.00 | 239 | 8.1 | 21.5 | 1.50 | 8.8 | 99 | 84 |
| 28... | 1717 | 10.0 | 239 | 7.6 | 21.0 | -- | 6.4 | 71 | -- |
| 28... | 1720 | 20.0 | 239 | 7.5 | 20.5 | -- | 6.0 | 66 | -- |
| 28... | 1722 | 30.0 | 243 | 7.3 | 19.5 | -- | 4.6 | 49 | -- |
| 28... | 1724 | 40.0 | 243 | 7.1 | 18.5 | -- | 2.5 | 27 | -- |
| 28... | 1726 | 50.0 | 264 | 7.1 | 17.5 | -- | .2 | 2 | -- |
| 28... | 1728 | 58.0 | 271 | 7.1 | 18.5 | -- | .2 | 2 | 93 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 5 | 30 | 2.3 | 11 | .5 | 3.0 | 97 | 80 | 6.0 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 0 | 33 | 2.6 | 11 | .5 | 3.0 | 120 | 98 | 5.4 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 20 | .30 | 3.9 | 120 | .040 | .020 | .010 | <10 | 30 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | .090 | .040 | .010 | <10 | 40 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | .240 | .010 | .010 | <10 | 190 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 20 | .40 | 6.9 | 150 | <.100 | .350 | .050 | 210 | 3500 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| APR | | | | | | | |
| 28... | 1740 | 1.00 | 239 | 8.1 | 21.5 | 8.6 | 97 |
| 28... | 1742 | 10.0 | 239 | 7.7 | 21.0 | 7.3 | 81 |
| 28... | 1744 | 20.0 | 239 | 7.5 | 20.0 | 5.9 | 64 |
| 28... | 1746 | 30.0 | 243 | 7.3 | 19.5 | 4.6 | 49 |
| 28... | 1748 | 40.0 | 243 | 7.2 | 18.5 | 2.5 | 27 |
| 28... | 1750 | 50.0 | 264 | 7.2 | 19.0 | .3 | 3 |
| 28... | 1752 | 57.0 | 271 | 7.2 | 17.5 | .2 | 2 |

TABLE 9.--Chemical-quality survey of Lake Conroe, April 28, 1976--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 1055 | 1.00 | 242 | 8.3 | 22.5 | 1.00 | 7.9 | 90 | 90 |
| 29... | 1057 | 10.0 | 244 | 8.2 | 22.0 | -- | 7.8 | 89 | -- |
| 29... | 1059 | 20.0 | 244 | 7.3 | 20.5 | -- | 3.6 | 40 | -- |
| 29... | 1101 | 29.0 | 246 | 7.2 | 20.0 | -- | 2.1 | 23 | 90 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 8 | 32 | 2.4 | 11 | .5 | 3.1 | 100 | 82 | 5.3 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 8 | 32 | 2.5 | 12 | .6 | 3.1 | 100 | 82 | 5.4 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 20 | .30 | 3.6 | 130 | <.100 | .040 | .010 | <10 | <10 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | .060 | .030 | .010 | 20 | <10 |
| 29... | 20 | .30 | 4.6 | 130 | .060 | .060 | .010 | 60 | 80 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| APR | | | | | | | |
| 28... | 1810 | 1.00 | 239 | 8.5 | 22.0 | 9.6 | 109 |
| 28... | 1812 | 10.0 | 239 | 8.5 | 22.0 | 9.5 | 108 |
| 28... | 1814 | 20.0 | 239 | 8.4 | 22.0 | 9.0 | 102 |
| 28... | 1816 | 30.0 | 239 | 7.4 | 20.0 | 4.7 | 51 |
| 28... | 1818 | 40.0 | 243 | 7.2 | 19.5 | 2.6 | 28 |
| 28... | 1820 | 48.0 | 243 | 7.2 | 19.5 | 1.4 | 15 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| APR | | | | | | | |
| 28... | 1755 | 1.00 | 239 | 8.6 | 22.0 | 9.8 | 111 |
| 28... | 1757 | 10.0 | 239 | 8.5 | 22.0 | 9.8 | 111 |
| 28... | 1759 | 20.0 | 239 | 8.5 | 22.0 | 9.6 | 109 |
| 28... | 1801 | 30.0 | 239 | 7.3 | 19.5 | 4.0 | 43 |
| 28... | 1803 | 43.0 | 243 | 7.2 | 19.5 | 3.8 | 41 |

TABLE 9.--Chemical-quality survey of Lake Conroe, April 28, 1976--continued

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 1918 | 1.00 | 244 | 8.6 | 23.0 | 1.10 | 9.0 | 103 | 87 |
| 28... | 1920 | 10.0 | 244 | 8.5 | 22.5 | -- | 9.0 | 102 | -- |
| 28... | 1922 | 20.0 | 244 | 8.3 | 22.5 | -- | 7.8 | 89 | -- |
| 28... | 1924 | 25.0 | 255 | 7.3 | 22.5 | -- | .6 | 7 | 88 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 8 | 31 | 2.4 | 12 | .6 | 3.1 | 96 | 79 | 5.4 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 6 | 31 | 2.5 | 12 | .6 | 3.1 | 100 | 82 | 5.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 22 | .30 | 3.5 | 130 | <.100 | .030 | .020 | <10 | 30 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | <.100 | .030 | .010 | <10 | 120 |
| 28... | 22 | .30 | 4.8 | 130 | <.100 | .070 | .030 | <10 | 1000 |

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 0948 | 1.00 | 329 | 7.7 | 23.0 | .70 | 6.2 | 71 | 100 |
| 29... | 0950 | 10.0 | 332 | 7.6 | 23.0 | -- | 5.6 | 64 | -- |
| 29... | 0952 | 20.0 | 335 | 7.5 | 23.0 | -- | 4.5 | 52 | -- |
| 29... | 0954 | 34.0 | 356 | 7.3 | 22.5 | -- | 3.1 | 35 | 110 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 23 | 37 | 3.0 | 21 | .9 | 3.8 | 100 | 82 | 9.3 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 29 | 39 | 3.3 | 24 | 1 | 4.0 | 100 | 82 | 10 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 29... | 42 | .30 | 6.0 | 170 | <.100 | .040 | .050 | <10 | <10 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | <.100 | .040 | .050 | <10 | 220 |
| 29... | 50 | .30 | 7.9 | 190 | <.100 | .020 | .070 | 30 | 400 |

TABLE 9.--Chemical-quality survey of Lake Conroe, April 28, 1976--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 1830 | 1.00 | 242 | 8.6 | 23.0 | 1.10 | 9.2 | 106 | 88 |
| 28... | 1832 | 10.0 | 242 | 8.5 | 22.5 | -- | 8.8 | 100 | -- |
| 28... | 1834 | 20.0 | 242 | 8.3 | 22.5 | -- | 8.0 | 91 | -- |
| 28... | 1836 | 27.0 | 252 | 7.3 | 21.5 | -- | .4 | 4 | 90 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 8 | 31 | 2.5 | 12 | .6 | 3.1 | 97 | 80 | 6.4 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 8 | 32 | 2.4 | 12 | .6 | 3.1 | 100 | 82 | 4.5 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 22 | .30 | 3.6 | 130 | <.100 | .040 | .010 | <10 | 20 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | <.100 | .040 | .010 | <10 | 160 |
| 28... | 21 | .40 | 5.4 | 130 | .010 | .170 | .050 | 110 | 860 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 1850 | 1.00 | 241 | 8.6 | 22.5 | 9.2 | 105 | 85 | 7 |
| 28... | 1852 | 10.0 | 241 | 8.6 | 22.5 | 9.2 | 105 | -- | -- |
| 28... | 1854 | 20.0 | 241 | 8.4 | 22.0 | 8.5 | 97 | -- | -- |
| 28... | 1856 | 30.0 | 241 | 7.4 | 20.5 | 3.4 | 37 | -- | -- |
| 28... | 1858 | 37.0 | 249 | 7.2 | 20.5 | .7 | 8 | 88 | 6 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | |
| 28... | 30 | 2.4 | 12 | .6 | 3.1 | 95 | 78 | 5.9 | 21 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 31 | 2.5 | 12 | .6 | 3.1 | 100 | 82 | 6.3 | 21 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | |
| 28... | .30 | 3.7 | 130 | <.100 | .030 | .010 | <10 | <10 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | <.100 | .020 | .010 | 40 | 50 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | .30 | 5.8 | 130 | .130 | .060 | .050 | 150 | 1200 |

TABLE 10.--Chemical-quality survey of Lake Conroe, August 19, 1976

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

30212/095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 19... | 1040 | 1.00 | 242 | 8.1 | 30.0 | 1.30 | 6.5 | 8/ | 82 |
| 19... | 1042 | 10.0 | 242 | 8.0 | 29.5 | -- | 6.3 | 83 | -- |
| 19... | 1044 | 20.0 | 242 | /.5 | 28.5 | -- | 3.7 | 48 | -- |
| 19... | 1046 | 30.0 | 255 | 7.1 | 26.0 | -- | .2 | 2 | -- |
| 19... | 1048 | 40.0 | 268 | 7.1 | 22.5 | -- | .2 | 2 | -- |
| 19... | 1050 | 54.0 | 345 | 6.9 | 21.5 | -- | .2 | 2 | 120 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 19... | 3 | 30 | 1.8 | 12 | .6 | 3.1 | 96 | 79 | 4.0 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 0 | 45 | 2.8 | 12 | .5 | 3.6 | 170 | 139 | 2.1 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 19... | 22 | .20 | 5.5 | 130 | .010 | <.010 | .030 | 80 | <10 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | .010 | .010 | .030 | 80 | 190 |
| 19... | -- | -- | -- | -- | .010 | .0/0 | .060 | /20 | 2000 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 21 | .20 | 15 | 200 | .010 | 3.50 | .690 | 5300 | /100 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 19... | 1105 | 1.00 | 242 | 8.2 | 29.5 | 6.6 | 87 |
| 19... | 1108 | 10.0 | 242 | 8.1 | 29.0 | 6.4 | 84 |
| 19... | 1110 | 20.0 | 242 | 7.5 | 28.5 | 3.6 | 47 |
| 19... | 1112 | 30.0 | 258 | /.2 | 25.5 | .2 | 2 |
| 19... | 1114 | 44.0 | 266 | /.1 | 23.5 | .2 | 2 |

TABLE 10.--Chemical-quality survey of Lake Conroe, August 19, 1976--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 19... | 1025 | 1.00 | 242 | 8.1 | 29.0 | 29.5 | 6.8 | 89 |
| 19... | 1028 | 10.0 | 242 | 8.1 | 29.5 | -- | 6.6 | 87 |
| 19... | 1030 | 20.0 | 242 | 7.6 | 29.0 | -- | 4.8 | 63 |
| 19... | 1032 | 29.0 | 272 | 6.8 | 29.0 | -- | .3 | 4 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 19... | 1120 | 1.00 | 242 | 8.2 | 30.0 | 6.4 | 85 |
| 19... | 1122 | 10.0 | 242 | 8.1 | 29.5 | 6.3 | 83 |
| 19... | 1124 | 20.0 | 242 | 7.9 | 28.5 | 5.6 | 73 |
| 19... | 1126 | 30.0 | 259 | 7.1 | 25.5 | .2 | 2 |
| 19... | 1128 | 39.0 | 273 | 7.0 | 24.5 | .2 | 2 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 19... | 1135 | 1.00 | 242 | 8.1 | 29.5 | 6.2 | 82 |
| 19... | 1138 | 10.0 | 242 | 8.1 | 29.0 | 6.1 | 80 |
| 19... | 1140 | 20.0 | 242 | 8.0 | 28.5 | 5.7 | 74 |
| 19... | 1142 | 30.0 | 259 | 7.2 | 25.0 | .2 | 2 |
| 19... | 1144 | 44.0 | 268 | 7.0 | 23.5 | .2 | 2 |

302448095374101 SITE DC

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 19... | 1155 | 1.00 | 242 | 8.5 | 31.0 | 7.3 | 99 |
| 19... | 1157 | 10.0 | 242 | 8.4 | 30.0 | 6.9 | 92 |
| 19... | 1159 | 20.0 | 242 | 8.0 | 30.0 | 5.4 | 72 |
| 19... | 1601 | 26.0 | 268 | 7.0 | 29.0 | .2 | 3 |

TABLE 10.--Chemical-quality survey of Lake Conroe, August 19, 1976--continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 19... | 1210 | 1.00 | 241 | 8.4 | 31.0 | 1.30 | 7.0 | 95 | 83 |
| 19... | 1212 | 10.0 | 241 | 8.2 | 29.5 | -- | 6.2 | 82 | -- |
| 19... | 1214 | 20.0 | 241 | 7.5 | 29.0 | -- | 2.5 | 33 | -- |
| 19... | 1216 | 30.0 | 265 | 7.1 | 25.5 | -- | .2 | 2 | -- |
| 19... | 1218 | 44.0 | 318 | 6.8 | 23.5 | -- | .2 | 2 | 110 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 19... | 5 | 30 | 2.0 | 12 | .6 | 3.1 | 95 | 78 | 4.8 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 0 | 40 | 2.7 | 11 | .5 | 3.4 | 150 | 123 | 1.3 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 19... | 22 | .20 | 5.6 | 130 | <.100 | <.010 | .060 | 90 | 190 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | <.100 | .190 | .070 | 1400 | 2800 |
| 19... | 21 | .20 | 12 | 170 | <.100 | 1.20 | .640 | 4800 | 4200 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 19... | 1240 | 1.00 | 241 | 8.5 | 31.0 | 7.4 | 100 |
| 19... | 1242 | 10.0 | 241 | 8.4 | 30.0 | 6.8 | 91 |
| 19... | 1245 | 21.0 | 252 | 7.2 | 30.0 | .2 | 3 |

TABLE 10.--Chemical-quality survey of Lake Conroe, August 19, 1976--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 19... | 1300 | 1.00 | 248 | 7.7 | 30.5 | .80 | 6.1 | 81 | 80 |
| 19... | 1302 | 10.0 | 248 | 7.5 | 29.5 | -- | 5.1 | 67 | -- |
| 19... | 1304 | 20.0 | 272 | 6.9 | 29.0 | -- | .2 | 3 | -- |
| 19... | 1306 | 27.0 | 293 | 6.7 | 28.5 | -- | .2 | 3 | 91 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 19... | 5 | 29 | 1.8 | 14 | .7 | 3.1 | 92 | 75 | 4.8 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 1 | 33 | 2.1 | 19 | .9 | 2.5 | 110 | 90 | 4.2 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 19... | 25 | .30 | 7.9 | 130 | <.100 | <.010 | .050 | 180 | 110 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | .010 | .210 | .170 | 880 | 1500 |
| 19... | 35 | .20 | 16 | 170 | <.100 | .530 | .390 | 3000 | 2000 |

TABLE 11.--Chemical-quality survey of Lake Conroe, February 16, 1977

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

30212/095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 16... | 1015 | 1.00 | 235 | 7.9 | 10.5 | .70 | 11.7 | 108 | 82 |
| 16... | 1017 | 10.0 | 235 | 7.9 | 10.5 | -- | 11.7 | 108 | -- |
| 16... | 1020 | 20.0 | 235 | 7.9 | 10.5 | -- | 11.6 | 107 | -- |
| 16... | 1022 | 30.0 | 235 | 7.9 | 10.5 | -- | 11.6 | 107 | -- |
| 16... | 1024 | 40.0 | 235 | 7.6 | 10.5 | -- | 11.6 | 107 | -- |
| 16... | 1026 | 50.0 | 235 | 7.6 | 10.5 | -- | 10.6 | 98 | -- |
| 16... | 1028 | 60.0 | 243 | 7.2 | 9.0 | -- | 7.6 | 68 | -- |
| 16... | 1030 | 68.0 | 243 | 7.2 | 9.0 | -- | 7.6 | 68 | 87 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 16... | 7 | 29 | 2.3 | 12 | .6 | 3.2 | 92 | 75 | 4.8 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 8 | 31 | 2.4 | 12 | .6 | 3.2 | 96 | 79 | 5.1 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 16... | 22 | .10 | 2.6 | 120 | .080 | .010 | .020 | 20 | <10 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | .080 | .050 | .040 | 20 | <10 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 22 | .10 | 3.9 | 130 | .110 | .110 | .040 | 20 | 70 |

302132095333/01 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 16... | 0940 | 1.00 | 235 | 7.9 | 10.5 | .70 | 11.8 | 109 |
| 16... | 0942 | 10.0 | 235 | 7.9 | 10.5 | -- | 11.6 | 107 |
| 16... | 0944 | 20.0 | 235 | 7.9 | 10.5 | -- | 11.6 | 107 |
| 16... | 0946 | 30.0 | 235 | 7.9 | 10.5 | -- | 11.6 | 107 |
| 16... | 0948 | 40.0 | 235 | 7.7 | 10.5 | -- | 11.6 | 107 |
| 16... | 0950 | 51.0 | 235 | 7.6 | 10.5 | -- | 11.6 | 107 |

TABLE 11.--Chemical-quality survey of Lake Conroe, February 16, 1977--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 16... | 0915 | 1.00 | 235 | 7.9 | 10.5 | 11.5 | 106 |
| 16... | 0917 | 10.0 | 235 | 7.8 | 10.5 | 11.4 | 106 |
| 16... | 0919 | 20.0 | 235 | 7.7 | 10.5 | 11.3 | 105 |
| 16... | 0921 | 32.0 | 235 | 7.4 | 10.0 | 10.1 | 93 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 16... | 1055 | 1.00 | 235 | 7.9 | 10.0 | 11.7 | 107 |
| 16... | 1058 | 10.0 | 235 | 7.9 | 10.0 | 11.6 | 106 |
| 16... | 1100 | 20.0 | 235 | 7.8 | 10.0 | 11.2 | 103 |
| 16... | 1102 | 30.0 | 235 | 7.8 | 10.0 | 11.2 | 103 |
| 16... | 1104 | 38.0 | 235 | 7.7 | 10.0 | 10.8 | 99 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 16... | 1040 | 1.00 | 235 | 7.9 | 10.0 | 11.7 | 107 |
| 16... | 1042 | 10.0 | 235 | 7.9 | 10.0 | 11.6 | 106 |
| 16... | 1044 | 20.0 | 235 | 7.8 | 10.0 | 11.4 | 105 |
| 16... | 1046 | 30.0 | 235 | 7.8 | 10.0 | 11.4 | 105 |
| 16... | 1048 | 42.0 | 235 | 7.7 | 10.0 | 11.2 | 103 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 16... | 1115 | 1.00 | 235 | 7.8 | 10.5 | 11.4 | 106 |
| 16... | 1117 | 10.0 | 235 | 7.7 | 10.0 | 11.2 | 103 |
| 16... | 1120 | 20.0 | 235 | 7.7 | 10.0 | 11.2 | 103 |
| 16... | 1122 | 29.0 | 235 | 7.7 | 10.0 | 10.9 | 100 |

TABLE 11.--Chemical-quality survey of Lake Conroe, February 16, 1977--continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 16... | 1130 | 1.00 | 230 | 7.8 | 10.5 | .90 | 11.6 | 107 | 76 |
| 16... | 1132 | 10.0 | 230 | 7.8 | 10.0 | -- | 11.6 | 106 | -- |
| 16... | 1134 | 20.0 | 230 | 7.7 | 10.0 | -- | 11.2 | 103 | -- |
| 16... | 1136 | 30.0 | 230 | 7.7 | 10.0 | -- | 11.0 | 101 | -- |
| 16... | 1138 | 42.0 | 230 | 7.6 | 10.0 | -- | 10.9 | 100 | 88 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 16... | 6 | 26 | 2.6 | 12 | .6 | 3.2 | 85 | 70 | 5.8 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 13 | 30 | 3.2 | 12 | .6 | 3.2 | 92 | 75 | 5.4 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 16... | 22 | 3.3 | 120 | .070 | .020 | .020 | 30 | <10 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 22 | 3.1 | 120 | .080 | .030 | .020 | 30 | <10 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 16... | 1145 | 1.00 | 220 | 7.5 | 10.5 | 10.6 | 98 |
| 16... | 1147 | 10.0 | 220 | 7.5 | 10.5 | 10.4 | 96 |
| 16... | 1149 | 23.0 | 220 | 7.4 | 10.5 | 9.9 | 92 |

TABLE 11.--Chemical-quality survey of Lake Conroe, February 16, 1977--continued

303129095360501 SITE Gc

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 16... | 1210 | 1.00 | 162 | 6.9 | 12.0 | .50 | 7.6 | 73 | 49 |
| 16... | 1212 | 10.0 | 162 | 6.9 | 12.0 | -- | 7.5 | 72 | -- |
| 16... | 1214 | 20.0 | 198 | 6.9 | 12.0 | -- | 7.9 | 76 | -- |
| 16... | 1216 | 33.0 | 198 | 7.0 | 12.0 | -- | 7.9 | 76 | 60 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 16... | 12 | 17 | 1.6 | 10 | .7 | 3.1 | 45 | 37 | 9.0 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 17 | 21 | 1.9 | 13 | .8 | 3.3 | 52 | 43 | 11 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 16... | 20 | 9.3 | 92 | .020 | .040 | .100 | 130 | <10 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 26 | 9.7 | 110 | .040 | .050 | .090 | 130 | 30 |

TABLE 12.--Chemical-quality survey of Lake Conroe, May 26, 1977

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302212095335501 SITE A C

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 26... | 1515 | 1.00 | 233 | 8.1 | 30.0 | 7.7 | 103 | 81 | 11 |
| 26... | 1517 | 10.0 | 233 | 8.3 | 27.0 | 8.2 | 104 | -- | -- |
| 26... | 1519 | 20.0 | 233 | 7.7 | 26.0 | 6.9 | 86 | -- | -- |
| 26... | 1521 | 30.0 | 235 | 7.1 | 24.5 | 3.6 | 44 | -- | -- |
| 26... | 1523 | 40.0 | 246 | 6.9 | 20.5 | .2 | 2 | -- | -- |
| 26... | 1525 | 50.0 | 275 | 7.1 | 18.5 | .2 | 2 | -- | -- |
| 26... | 1527 | 56.0 | 290 | 7.2 | 18.5 | .2 | 2 | 100 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 26... | 29 | 2.2 | 12 | .6 | 3.0 | 86 | 71 | 6.0 | 24 |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | 36 | 2.5 | 12 | .5 | 3.1 | 130 | 107 | 4.8 | 23 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 26... | .10 | 2.7 | 120 | <.100 | <.010 | .010 | 40 | 20 |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | .010 | .010 | .020 | 30 | 140 |
| 26... | -- | -- | -- | .010 | .120 | .020 | 20 | 520 |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | .20 | 8.5 | 160 | .010 | .810 | .220 | 2100 | 6500 |

302132095333/01 SITE A 1

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 26... | 1453 | 1.00 | 233 | 8.1 | 29.5 | 8.1 | 107 |
| 26... | 1455 | 10.0 | 233 | 8.1 | 27.0 | 8.3 | 105 |
| 26... | 1457 | 20.0 | 235 | 7.5 | 25.5 | 6.8 | 85 |
| 26... | 1459 | 30.0 | 237 | 7.2 | 24.5 | 4.0 | 49 |
| 26... | 1501 | 40.0 | 248 | 6.9 | 20.5 | .2 | 2 |
| 26... | 1503 | 50.0 | 283 | 7.2 | 19.0 | .2 | 2 |
| 26... | 1505 | 60.0 | 290 | 7.3 | 19.0 | .2 | 2 |

TABLE 12.--Chemical-quality survey of Lake Conroe, May 26, 1977--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 26... | 1426 | 1.00 | 233 | 8.3 | 30.5 | 8.2 | 109 |
| 26... | 1428 | 10.0 | 233 | 7.6 | 26.0 | 6.8 | 85 |
| 26... | 1430 | 20.0 | 238 | 7.1 | 26.0 | 4.3 | 54 |
| 26... | 1432 | 28.0 | 239 | 6.8 | 26.0 | .3 | 4 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 26... | 1600 | 1.00 | 233 | 8.4 | 30.0 | 8.7 | 116 |
| 26... | 1602 | 10.0 | 233 | 8.0 | 26.5 | 7.8 | 99 |
| 26... | 1604 | 20.0 | 234 | 7.6 | 25.5 | 6.7 | 84 |
| 26... | 1606 | 30.0 | 239 | 6.9 | 24.0 | 3.3 | 40 |
| 26... | 1608 | 40.0 | 254 | 6.8 | 20.5 | .3 | 3 |
| 26... | 1610 | 50.0 | 281 | 7.1 | 19.5 | .3 | 3 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 26... | 1545 | 1.00 | 233 | 8.5 | 30.0 | 8.7 | 116 |
| 26... | 1547 | 10.0 | 233 | 7.8 | 26.0 | 7.6 | 95 |
| 26... | 1549 | 20.0 | 233 | 7.6 | 25.5 | 6.8 | 85 |
| 26... | 1551 | 30.0 | 236 | 7.3 | 24.5 | 4.7 | 57 |
| 26... | 1553 | 42.0 | 253 | 6.8 | 21.0 | .2 | 2 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 26... | 1630 | 1.00 | 233 | 8.7 | 30.5 | 9.0 | 120 |
| 26... | 1632 | 10.0 | 233 | 7.8 | 26.0 | 7.0 | 88 |
| 26... | 1634 | 20.0 | 233 | 7.3 | 25.5 | 4.5 | 56 |
| 26... | 1636 | 25.0 | 237 | 6.9 | 25.5 | .5 | 6 |

TABLE 12.--Chemical-quality survey of Lake Conroe, May 26, 1977--continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 26... | 1650 | 1.00 | 233 | 8.3 | 30.0 | 1.50 | 9.0 | 120 | 84 |
| 26... | 1652 | 10.0 | 233 | 8.1 | 26.5 | -- | 4.3 | 54 | -- |
| 26... | 1654 | 20.0 | 236 | 7.0 | 25.5 | -- | 3.9 | 49 | -- |
| 26... | 1656 | 30.0 | 241 | 6.8 | 22.5 | -- | .3 | 4 | -- |
| 26... | 1658 | 36.0 | 263 | 6.8 | 22.0 | -- | .2 | 2 | 90 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 26... | 13 | 30 | 2.1 | 12 | .6 | 3.0 | 86 | 71 | 4.6 |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | 0 | 32 | 2.4 | 12 | .6 | 3.0 | 110 | 90 | 4.8 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 26... | 25 | 2.8 | 120 | <.100 | .010 | .020 | 40 | 4 |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | .010 | .010 | .020 | 20 | 50 |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | 24 | 5.7 | 140 | <.100 | .480 | .210 | 1000 | 3600 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 26... | 1712 | 1.00 | 226 | 8.7 | 30.0 | 9.1 | 121 |
| 26... | 1714 | 10.0 | 231 | 8.1 | 26.5 | 7.9 | 100 |
| 26... | 1716 | 20.0 | 234 | 7.3 | 26.0 | 5.4 | 68 |
| 26... | 1718 | 25.0 | 241 | 6.7 | 25.0 | .2 | 2 |

TABLE 12.--Chemical-quality survey of Lake Conroe, May 26, 1977--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 26... | 1735 | 1.00 | 219 | 9.1 | 32.0 | .90 | 10.7 | 147 | 76 |
| 26... | 1738 | 10.0 | 205 | 7.0 | 26.5 | -- | 3.1 | 39 | -- |
| 26... | 1740 | 20.0 | 205 | 6.8 | 25.0 | -- | .2 | 2 | -- |
| 26... | 1742 | 30.0 | 217 | 6.8 | 25.0 | -- | .2 | 2 | -- |
| 26... | 1744 | 34.0 | 227 | 6.9 | 25.0 | -- | .2 | 2 | 74 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 26... | 12 | 27 | 2.1 | 12 | .6 | 3.0 | 78 | 64 | 8.5 |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | 8 | 26 | 2.1 | 13 | .7 | 3.1 | 80 | 66 | 6.3 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 26... | 21 | 3.2 | 120 | .010 | .010 | .060 | 40 | 20 |
| 26... | -- | -- | -- | .010 | .010 | .090 | 80 | 100 |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | 25 | 4.3 | 120 | <.100 | .610 | .520 | 1600 | 1300 |

TABLE 13.--Chemical-quality survey of Lake Conroe, September 16, 1977

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --paramneter not determined; <-less than)

30212/095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 16... | 1105 | 1.00 | 242 | 7.9 | 28.0 | 1.20 | 7.6 | 97 | 81 |
| 16... | 1107 | 10.0 | 242 | 7.7 | 27.5 | -- | 6.8 | 87 | -- |
| 16... | 1110 | 20.0 | 244 | 7.2 | 27.0 | -- | 3.8 | 48 | -- |
| 16... | 1112 | 30.0 | 252 | 7.1 | 26.0 | -- | .2 | 2 | -- |
| 16... | 1114 | 40.0 | 273 | 6.9 | 21.0 | -- | .2 | 2 | -- |
| 16... | 1116 | 52.0 | 312 | 6.8 | 20.0 | -- | .2 | 2 | 110 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 16... | 8 | 29 | 2.2 | 13 | .7 | 3.0 | 90 | 74 | 4.8 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 0 | 38 | 2.8 | 15 | .7 | 3.6 | 140 | 115 | 2.7 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 16... | 24 | .10 | 3.8 | 120 | .020 | .010 | .020 | 70 | 20 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | .030 | .020 | .020 | 50 | 100 |
| 16... | -- | -- | -- | -- | .030 | .140 | .050 | 390 | 1300 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 24 | .20 | 11 | 170 | .020 | 2.60 | .460 | 4100 | 4700 |

302132095333701 SITE $A_T$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 16... | 1120 | 1.00 | 242 | 7.9 | 28.0 | 7.6 | 97 |
| 16... | 1122 | 10.0 | 242 | 7.6 | 27.5 | 6.3 | 81 |
| 16... | 1124 | 20.0 | 244 | 7.5 | 27.0 | 5.8 | 73 |
| 16... | 1126 | 30.0 | 249 | 7.1 | 26.5 | .2 | 3 |
| 16... | 1128 | 43.0 | 278 | 6.9 | 21.5 | .2 | 2 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 16... | 1030 | 1.00 | 242 | 8.1 | 28.0 | 7.9 | 101 |
| 16... | 1032 | 10.0 | 242 | 8.0 | 28.0 | 7.8 | 100 |
| 16... | 1034 | 20.0 | 242 | 7.8 | 28.0 | 6.9 | 88 |
| 16... | 1036 | 25.0 | 245 | 7.4 | 28.0 | 4.4 | 56 |

TABLE 13.--Chemical-quality survey of Lake Conroe, September 16, 1977--continued

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 16... | 1130 | 1.00 | 242 | 7.9 | 28.0 | 7.5 | 96 |
| 16... | 1132 | 10.0 | 242 | 7.8 | 27.5 | 7.1 | 91 |
| 16... | 1134 | 20.0 | 242 | 7.6 | 27.5 | 6.6 | 85 |
| 16... | 1136 | 30.0 | 244 | 7.2 | 26.5 | 2.5 | 32 |
| 16... | 1138 | 40.0 | 290 | 6.9 | 21.5 | .2 | 2 |
| 16... | 1140 | 47.0 | 304 | 6.9 | 21.0 | .2 | 2 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 16... | 1142 | 1.00 | 242 | 8.1 | 28.5 | 7.9 | 103 |
| 16... | 1144 | 10.0 | 242 | 7.9 | 28.0 | 7.5 | 96 |
| 16... | 1146 | 20.0 | 242 | 7.8 | 28.0 | 7.2 | 92 |
| 16... | 1148 | 30.0 | 243 | 7.7 | 27.5 | 6.4 | 82 |
| 16... | 1150 | 35.0 | 296 | 7.2 | 24.5 | .2 | 2 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 16... | 1200 | 1.00 | 240 | 8.0 | 28.0 | 8.0 | 103 |
| 16... | 1202 | 10.0 | 240 | 7.9 | 28.0 | 7.4 | 95 |
| 16... | 1204 | 20.0 | 240 | 7.3 | 28.0 | 4.5 | 58 |
| 16... | 1206 | 26.0 | 240 | 7.2 | 28.0 | 3.6 | 46 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 16... | 1215 | 1.00 | 240 | 8.2 | 28.5 | 1.20 | 8.6 | 112 | 81 |
| 16... | 1217 | 10.0 | 240 | 8.1 | 28.0 | -- | 7.9 | 101 | -- |
| 16... | 1220 | 20.0 | 240 | 7.5 | 28.0 | -- | 5.9 | 76 | -- |
| 16... | 1222 | 30.0 | 243 | 7.3 | 27.5 | -- | 4.0 | 51 | -- |
| 16... | 1224 | 42.0 | 359 | 6.7 | 22.5 | -- | .2 | 2 | 120 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 16... | 8 | 29 | 2.2 | 14 | .7 | 3.1 | 90 | 74 | 4.7 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 0 | 44 | 2.8 | 13 | .5 | 3.7 | 180 | 148 | 2.4 |

TABLE 13.--Chemical-quality survey of Lake Conroe, September 16, 1977--continued

302607095360901 SITE $E_C$--continued

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 16... | 25 | 3.8 | 130 | .020 | .010 | .010 | 140 | 50 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | .060 | .090 | .030 | 310 | 430 |
| 16... | 24 | 14 | 210 | .020 | 3.80 | .740 | 10000 | 7400 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 16... | 1230 | 1.00 | 239 | 8.1 | 29.0 | 8.3 | 109 |
| 16... | 1232 | 10.0 | 239 | 8.0 | 28.5 | 7.8 | 101 |
| 16... | 1234 | 23.0 | 240 | 7.7 | 28.0 | 6.8 | 87 |

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 16... | 1300 | 1.00 | 246 | 8.1 | 28.5 | .80 | 8.8 | 114 | 82 |
| 16... | 1302 | 10.0 | 255 | 7.5 | 27.5 | -- | 6.3 | 81 | -- |
| 16... | 1304 | 20.0 | 255 | 7.2 | 27.5 | -- | 4.1 | 53 | -- |
| 16... | 1306 | 27.0 | 255 | 7.2 | 27.5 | -- | 3.8 | 49 | 82 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 16... | 9 | 29 | 2.3 | 15 | .8 | 2.8 | 89 | 73 | 4.3 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 9 | 29 | 2.3 | 16 | .8 | 2.5 | 89 | 73 | 4.1 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 16... | 26 | 5.0 | 130 | .020 | .010 | .040 | 30 | <10 |
| 16... | -- | -- | -- | .030 | .010 | .050 | 30 | 30 |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 28 | 5.7 | 130 | .030 | .040 | .080 | 50 | 140 |

TABLE 14.--Chemical-quality survey of Lake Conroe, March 14, 1978

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_c$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | |
| 14... | 0945 | 1.00 | 238 | 7.8 | 11.5 | 1.80 | 9.6 | 91 | 93 | 22 |
| 14... | 0947 | 10.0 | 238 | 7.8 | 11.5 | -- | 9.6 | 91 | -- | -- |
| 14... | 0949 | 20.0 | 238 | 7.7 | 11.0 | -- | 9.3 | 87 | -- | -- |
| 14... | 0951 | 30.0 | 238 | 7.7 | 10.5 | -- | 9.1 | 84 | -- | -- |
| 14... | 0953 | 40.0 | 238 | 7.7 | 10.5 | -- | 8.9 | 82 | -- | -- |
| 14... | 0955 | 54.0 | 238 | 7.5 | 10.5 | -- | 8.5 | 79 | 91 | 17 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | |
| 14... | 33 | 2.5 | 13 | .6 | 3.0 | 86 | 71 | 0 | 6.4 | 28 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 32 | 2.5 | 13 | .6 | 3.1 | 90 | 74 | 0 | 6.9 | 29 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 14... | .10 | 3.3 | 130 | .100 | .010 | .080 | 2 | 400 | ND |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | .130 | .030 | .090 | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | .10 | 4.0 | 140 | .090 | .080 | .090 | 1 | 400 | <2 |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 14... | ND | <2 | <10 | ND | <10 | <.1 | <1 | ND | <20 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | <10 | -- | <10 | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | ND | 2 | 20 | ND | 40 | <.1 | <1 | <2 | 20 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAR | | | | | | | |
| 14... | 1020 | 1.00 | 238 | 8.0 | 12.0 | 9.5 | 91 |
| 14... | 1022 | 10.0 | 238 | 8.0 | 11.5 | 9.5 | 90 |
| 14... | 1024 | 20.0 | 238 | 8.0 | 11.5 | 9.5 | 90 |
| 14... | 1026 | 30.0 | 238 | 7.8 | 11.0 | 9.1 | 85 |
| 14... | 1028 | 40.0 | 238 | 7.7 | 10.5 | 8.8 | 81 |
| 14... | 1030 | 52.0 | 238 | 7.7 | 10.5 | 8.4 | 78 |

TABLE 14.--Chemical-quality survey of Lake Conroe, March 14, 1978--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAR | | | | | | | |
| 14... | 0920 | 1.00 | 238 | 8.0 | 13.5 | 9.4 | 93 |
| 14... | 0922 | 10.0 | 238 | 8.0 | 13.0 | 9.3 | 91 |
| 14... | 0924 | 20.0 | 238 | 7.7 | 11.0 | 8.3 | 78 |
| 14... | 0926 | 30.0 | 238 | 7.5 | 10.5 | 7.2 | 67 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAR | | | | | | | |
| 14... | 1100 | 1.00 | 238 | 8.2 | 13.5 | 9.7 | 96 |
| 14... | 1102 | 10.0 | 238 | 8.0 | 12.5 | 9.6 | 93 |
| 14... | 1104 | 20.0 | 238 | 7.8 | 12.0 | 9.2 | 88 |
| 14... | 1106 | 30.0 | 238 | 7.7 | 11.5 | 9.0 | 85 |
| 14... | 1108 | 40.0 | 238 | 7.6 | 11.0 | 8.6 | 80 |
| 14... | 1110 | 49.0 | 238 | 7.6 | 11.0 | 7.9 | 74 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAR | | | | | | | |
| 14... | 1045 | 1.00 | 238 | 8.1 | 12.5 | 9.7 | 94 |
| 14... | 1047 | 10.0 | 238 | 8.0 | 12.0 | 9.5 | 91 |
| 14... | 1049 | 20.0 | 238 | 7.8 | 11.5 | 9.3 | 88 |
| 14... | 1051 | 30.0 | 238 | 7.6 | 11.0 | 8.8 | 82 |
| 14... | 1053 | 40.0 | 238 | 7.6 | 10.5 | 8.4 | 78 |
| 14... | 1055 | 48.0 | 238 | 7.5 | 10.5 | 7.9 | 73 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAR | | | | | | | |
| 14... | 1130 | 1.00 | 238 | 8.0 | 13.5 | 9.6 | 95 |
| 14... | 1132 | 10.0 | 238 | 8.0 | 12.5 | 9.6 | 93 |
| 14... | 1135 | 20.0 | 238 | 7.7 | 12.0 | 8.9 | 86 |
| 14... | 1137 | 28.0 | 238 | 7.6 | 12.0 | 8.3 | 80 |

TABLE 14.--Chemical-quality survey of Lake Conroe, March 14, 1978--continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 14... | 1145 | 1.00 | 230 | 8.4 | 14.0 | 1.20 | 10.8 | 108 | 85 |
| 14... | 1147 | 10.0 | 236 | 7.9 | 12.5 | -- | 9.7 | 94 | -- |
| 14... | 1149 | 20.0 | 236 | 7.6 | 12.5 | -- | 9.4 | 91 | -- |
| 14... | 1151 | 30.0 | 236 | 7.4 | 11.5 | -- | 8.6 | 81 | -- |
| 14... | 1153 | 39.0 | 238 | 7.2 | 11.5 | -- | 6.5 | 61 | 87 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 14... | 19 | 30 | 2.4 | 12 | .6 | 3.0 | 80 | 66 | 0 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 19 | 31 | 2.3 | 12 | .6 | 3.0 | 83 | 68 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 14... | 8.4 | 28 | 3.8 | 130 | .060 | .080 | .100 | 40 | <10 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 8.4 | 28 | 4.1 | 130 | .100 | .090 | .110 | 20 | 80 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAR | | | | | | | |
| 14... | 1215 | 1.00 | 226 | 8.1 | 15.0 | 10.1 | 103 |
| 14... | 1217 | 10.0 | 226 | 7.8 | 13.0 | 9.7 | 95 |
| 14... | 1219 | 20.0 | 226 | 7.3 | 12.0 | 7.9 | 76 |
| 14... | 1221 | 27.0 | 226 | 7.3 | 12.0 | 5.2 | 50 |

TABLE 14.--Chemical-quality survey of Lake Conroe, March 14, 1978--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 14... | 1245 | 1.00 | 195 | 7.9 | 16.5 | .60 | 9.8 | 103 | 66 |
| 14... | 1247 | 10.0 | 199 | 7.2 | 13.5 | -- | 8.0 | 79 | -- |
| 14... | 1249 | 20.0 | 208 | 7.0 | 12.5 | -- | 6.8 | 66 | -- |
| 14... | 1252 | 32.0 | 208 | 7.0 | 12.5 | -- | 6.2 | 60 | 63 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 14... | 24 | 23 | 2.0 | 12 | .7 | 3.3 | 51 | 42 | 0 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 22 | 22 | 2.0 | 13 | .7 | 3.1 | 50 | 41 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 14... | 13 | 28 | 9.1 | 120 | .040 | .040 | .150 | 70 | <10 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 15 | 30 | 11 | 120 | .150 | .110 | .150 | 120 | 40 |

TABLE 15.--Chemical-quality survey of Lake Conroe, July 13, 1978

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE Ac

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | | |
| 13... | 1005 | 1.00 | 230 | 7.5 | 30.0 | 1.80 | 5.8 | 77 | 79 | 15 |
| 13... | 1007 | 10.0 | 230 | 7.4 | 29.5 | -- | 5.4 | 71 | -- | -- |
| 13... | 1009 | 20.0 | 230 | 6.9 | 29.0 | -- | 2.3 | 30 | -- | -- |
| 13... | 1011 | 30.0 | 247 | 6.8 | 24.5 | -- | .3 | 4 | -- | -- |
| 13... | 1013 | 40.0 | 250 | 6.8 | 21.0 | -- | .6 | 7 | -- | -- |
| 13... | 1015 | 50.0 | 250 | 6.8 | 20.0 | -- | .5 | 6 | -- | -- |
| 13... | 1017 | 59.0 | 298 | 6.8 | 19.0 | -- | .4 | 4 | 100 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | | |
| 13... | 27 | 2.7 | 14 | .7 | 2.7 | 78 | 64 | 0 | 7.1 | 28 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 37 | 3.0 | 14 | .6 | 3.1 | 130 | 107 | 0 | 2.7 | 26 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | |
| 13... | .10 | 2.7 | 120 | <.100 | .010 | .030 | 2 | 200 | ND |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | .030 | <.010 | .020 | -- | -- | -- |
| 13... | -- | -- | -- | <.100 | .010 | .020 | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | .10 | 8.6 | 170 | <.100 | .980 | .290 | 15 | 200 | ND |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | |
| 13... | ND | ND | 70 | ND | <10 | <.1 | <1 | ND | ND |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | 60 | -- | 90 | -- | -- | -- | -- |
| 13... | -- | -- | 290 | -- | 1400 | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | ND | ND | 3000 | ND | 5300 | <.1 | <1 | ND | <20 |

TABLE 15.--Chemical-quality survey of Lake Conroe, July 13, 1978--continued

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUL | | | | | | | |
| 13... | 1100 | 1.00 | 230 | 8.1 | 31.0 | 7.3 | 99 |
| 13... | 1102 | 10.0 | 230 | 7.8 | 30.5 | 6.6 | 88 |
| 13... | 1104 | 20.0 | 230 | 7.0 | 29.5 | 3.1 | 49 |
| 13... | 1106 | 30.0 | 250 | 6.8 | 25.0 | .4 | 5 |
| 13... | 1108 | 40.0 | 250 | 6.8 | 21.5 | .4 | 5 |
| 13... | 1110 | 50.0 | 280 | 6.8 | 19.0 | .4 | 4 |
| 13... | 1112 | 56.0 | 300 | 6.8 | 18.5 | .4 | 4 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUL | | | | | | | |
| 13... | 0942 | 1.00 | 223 | 8.4 | 31.5 | 7.8 | 105 |
| 13... | 0944 | 10.0 | 223 | 8.3 | 31.0 | 7.8 | 105 |
| 13... | 0946 | 20.0 | 229 | 6.6 | 29.0 | .3 | 4 |
| 13... | 0948 | 32.0 | 250 | 6.5 | 25.0 | .4 | 5 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUL | | | | | | | |
| 13... | 1134 | 1.00 | 230 | 8.1 | 32.0 | 7.2 | 99 |
| 13... | 1136 | 10.0 | 230 | 7.9 | 31.0 | 6.7 | 91 |
| 13... | 1138 | 20.0 | 230 | 7.3 | 30.0 | 5.0 | 67 |
| 13... | 1140 | 30.0 | 248 | 6.7 | 24.5 | .3 | 4 |
| 13... | 1142 | 40.0 | 262 | 6.8 | 21.5 | .3 | 3 |
| 13... | 1144 | 50.0 | 275 | 6.8 | 20.5 | .3 | 3 |
| 13... | 1146 | 60.0 | 275 | 6.8 | 20.5 | .4 | 5 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUL | | | | | | | |
| 13... | 1157 | 1.00 | 230 | 8.1 | 32.0 | 7.0 | 96 |
| 13... | 1159 | 10.0 | 230 | 8.0 | 31.0 | 6.8 | 92 |
| 13... | 1201 | 20.0 | 230 | 7.2 | 30.0 | 4.5 | 60 |
| 13... | 1203 | 34.0 | 252 | 6.7 | 24.5 | .4 | 5 |

TABLE 15.--Chemical-quality survey of Lake Conroe, July 13, 1978--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUL | | | | | | | |
| 13... | 1218 | 1.00 | 225 | 8.4 | 32.5 | 7.5 | 103 |
| 13... | 1220 | 10.0 | 225 | 8.3 | 31.0 | 7.4 | 100 |
| 13... | 1222 | 25.0 | 225 | 6.8 | 31.0 | 1.7 | 23 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | |
| 13... | 1240 | 1.00 | 229 | 8.2 | 32.0 | 1.70 | 7.4 | 101 | 76 |
| 13... | 1242 | 10.0 | 229 | 8.2 | 31.0 | -- | 7.2 | 97 | -- |
| 13... | 1244 | 20.0 | 229 | 7.8 | 30.5 | -- | 6.4 | 85 | -- |
| 13... | 1246 | 30.0 | 229 | 6.8 | 25.0 | -- | .7 | 9 | -- |
| 13... | 1248 | 42.0 | 282 | 6.6 | 21.5 | -- | .3 | 3 | 100 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | |
| 13... | 12 | 26 | 2.6 | 14 | .7 | 2.7 | 76 | 64 | 1 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 2 | 35 | 3.0 | 14 | .6 | 3.0 | 120 | 98 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | |
| 13... | 6.8 | 27 | 2.7 | 120 | .010 | <.010 | .020 | 60 | 20 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | <.100 | .020 | .050 | 920 | 2800 |
| 13... | 1.9 | 26 | 7.9 | 160 | .010 | .390 | .360 | 3900 | 3400 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUL | | | | | | | |
| 13... | 1306 | 1.00 | 227 | 8.3 | 32.5 | 7.4 | 101 |
| 13... | 1308 | 10.0 | 227 | 8.3 | 31.5 | 7.4 | 100 |
| 13... | 1310 | 24.0 | 242 | 6.5 | 30.0 | .4 | 5 |

TABLE 15.--Chemical-quality survey of Lake Conroe, July 13, 1978--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | |
| 13... | 1330 | 1.00 | 235 | 8.4 | 33.0 | 1.50 | 7.5 | 104 | 74 |
| 13... | 1332 | 10.0 | 241 | 7.7 | 31.5 | -- | 5.7 | 77 | -- |
| 13... | 1334 | 20.0 | 306 | 6.4 | 29.5 | -- | .6 | 8 | -- |
| 13... | 1336 | 33.0 | 348 | 6.3 | 27.5 | -- | .9 | 12 | 100 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | |
| 13... | 14 | 25 | 2.9 | 16 | .8 | 2.6 | 69 | 60 | 2 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 3 | 35 | 3.3 | 23 | 1 | 3.2 | 120 | 98 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | |
| 13... | 7.4 | 31 | 3.1 | 130 | .010 | .010 | .030 | 40 | 20 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | <.100 | .310 | .290 | 1100 | 930 |
| 13... | 2.4 | 46 | 8.4 | 180 | <.100 | 1.50 | .840 | 2900 | 1700 |

TABLE 16.--Chemical-quality survey of Lake Conroe, September 29, 1978

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | | |
| 29... | 1020 | 1.00 | 237 | 7.7 | 26.5 | 1.70 | 6.8 | 86 | 73 | 7 |
| 29... | 1023 | 10.0 | 237 | 7.6 | 26.5 | -- | 6.5 | 82 | -- | -- |
| 29... | 1025 | 20.0 | 237 | 7.6 | 26.5 | -- | 6.5 | 82 | -- | -- |
| 29... | 1027 | 30.0 | 237 | 7.6 | 26.5 | -- | 6.4 | 81 | -- | -- |
| 29... | 1029 | 35.0 | 237 | 7.6 | 26.5 | -- | 6.4 | 81 | -- | -- |
| 29... | 1031 | 40.0 | 285 | 7.0 | 22.0 | -- | .3 | 4 | -- | -- |
| 29... | 1033 | 45.0 | 285 | 6.9 | 22.0 | -- | .3 | 4 | -- | -- |
| 29... | 1035 | 53.0 | 334 | 6.8 | 19.5 | -- | .3 | 3 | 110 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | | |
| 29... | 25 | 2.5 | 15 | .8 | 2.8 | 80 | 66 | 0 | 7.0 | 28 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 40 | 2.9 | 14 | .6 | 3.5 | 150 | 123 | 0 | <1.0 | 21 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 29... | .20 | 2.9 | 120 | <.100 | .010 | .020 | 1 | 60 | <2 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | <.100 | .020 | .020 | -- | -- | -- |
| 29... | -- | -- | -- | <.100 | .500 | .040 | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | 13 | 185 | <.100 | 3.30 | .740 | 25 | 300 | ND |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 29... | ND | 6 | <10 | ND | 20 | <.1 | <1 | ND | <3 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | 30 | -- | 100 | -- | -- | -- | -- |
| 29... | -- | -- | 550 | -- | 6200 | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | ND | 6 | 9500 | ND | 5600 | <.1 | <1 | ND | 20 |

TABLE 16.--Chemical-quality survey of Lake Conroe, September 29, 1978--continued

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 29... | 1105 | 1.00 | 237 | 7.6 | 27.0 | 6.8 | 86 |
| 29... | 1107 | 10.0 | 237 | 7.6 | 26.5 | 6.6 | 84 |
| 29... | 1109 | 20.0 | 237 | 7.6 | 26.5 | 6.5 | 82 |
| 29... | 1111 | 30.0 | 237 | 7.5 | 25.5 | 6.1 | 76 |
| 29... | 1113 | 40.0 | 288 | 7.0 | 21.5 | .2 | 2 |
| 29... | 1115 | 52.0 | 334 | 6.7 | 20.5 | .2 | 2 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 29... | 1000 | 1.00 | 228 | 7.7 | 26.5 | 6.7 | 85 |
| 29... | 1002 | 10.0 | 228 | 7.6 | 26.0 | 6.7 | 84 |
| 29... | 1005 | 20.0 | 228 | 7.6 | 26.0 | 6.6 | 82 |
| 29... | 1007 | 30.0 | 228 | 7.4 | 26.0 | 5.7 | 71 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 29... | 1145 | 1.00 | 237 | 7.5 | 26.5 | 6.6 | 84 |
| 29... | 1147 | 10.0 | 237 | 7.5 | 26.5 | 6.6 | 84 |
| 29... | 1149 | 20.0 | 237 | 7.5 | 26.0 | 6.3 | 79 |
| 29... | 1151 | 30.0 | 237 | 7.4 | 26.0 | 6.2 | 78 |
| 29... | 1153 | 35.0 | 237 | 7.4 | 26.0 | 5.8 | 72 |
| 29... | 1155 | 38.0 | 285 | 7.0 | 24.0 | .4 | 5 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 29... | 1125 | 1.00 | 237 | 7.6 | 26.5 | 6.6 | 84 |
| 29... | 1127 | 10.0 | 237 | 7.5 | 26.5 | 6.4 | 81 |
| 29... | 1129 | 20.0 | 237 | 7.4 | 26.0 | 6.2 | 78 |
| 29... | 1131 | 30.0 | 237 | 7.4 | 26.0 | 6.1 | 76 |
| 29... | 1133 | 35.0 | 237 | 7.4 | 25.5 | 5.6 | 70 |
| 29... | 1135 | 40.0 | 293 | 6.9 | 21.5 | .2 | 2 |
| 29... | 1137 | 48.0 | 313 | 6.8 | 20.5 | .3 | 3 |

TABLE 16.--Chemical-quality survey of Lake Conroe, September 29, 1978

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 29... | 1205 | 1.00 | 237 | 7.6 | 27.0 | 6.8 | 86 |
| 29... | 1207 | 10.0 | 237 | 7.5 | 26.5 | 6.2 | 78 |
| 29... | 1209 | 20.0 | 237 | 7.4 | 26.5 | 6.1 | 77 |
| 29... | 1211 | 25.0 | 237 | 7.3 | 26.5 | 5.4 | 68 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 29... | 1220 | 1.00 | 239 | 7.5 | 27.0 | 1.60 | 6.6 | 84 | 79 |
| 29... | 1222 | 10.0 | 239 | 7.4 | 26.0 | -- | 6.1 | 76 | -- |
| 29... | 1224 | 20.0 | 239 | 7.4 | 26.0 | -- | 5.9 | 74 | -- |
| 29... | 1226 | 30.0 | 239 | 7.3 | 26.0 | -- | 5.8 | 72 | -- |
| 29... | 1228 | 35.0 | 327 | 7.1 | 25.0 | -- | .4 | 5 | -- |
| 29... | 1230 | 42.0 | 331 | 7.1 | 24.5 | -- | .3 | 4 | 120 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 29... | 13 | 27 | 2.8 | 15 | .8 | 3.0 | 80 | 66 | 0 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 19 | 42 | 3.0 | 15 | .6 | 3.2 | 120 | 98 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 29... | 5.9 | 27 | 3.3 | 120 | <.100 | .010 | .020 | <10 | 60 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | <.100 | .010 | .020 | 20 | 400 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 6.1 | 32 | 8.5 | 180 | <.100 | 1.10 | .110 | 1600 | 7200 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 29... | 1245 | 1.00 | 239 | 7.3 | 27.5 | 5.6 | 72 |
| 29... | 1247 | 10.0 | 239 | 7.1 | 26.5 | 4.6 | 58 |
| 29... | 1249 | 20.0 | 239 | 7.1 | 26.5 | 4.2 | 53 |

TABLE 16.--Chemical-quality survey of Lake Conroe, September 29, 1978--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 29... | 1320 | 1.00 | 252 | 7.6 | 26.0 | 1.20 | 7.0 | 88 | 76 |
| 29... | 1322 | 10.0 | 252 | 7.4 | 25.0 | -- | 6.0 | 74 | -- |
| 29... | 1324 | 20.0 | 252 | 7.3 | 25.0 | -- | 6.0 | 74 | -- |
| 29... | 1326 | 30.0 | 252 | 7.3 | 25.0 | -- | 5.4 | 67 | 74 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 29... | 12 | 26 | 2.7 | 18 | .9 | 2.9 | 78 | 64 | 0 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 10 | 25 | 2.7 | 18 | 1 | 2.9 | 78 | 64 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 29... | 5.1 | 32 | 4.6 | 130 | <.100 | .010 | .030 | 20 | <10 |
| 29... | -- | -- | -- | -- | .010 | .030 | .040 | <10 | 20 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 6.2 | 32 | 3.5 | 130 | .010 | .060 | .040 | <10 | 60 |

TABLE 17.--Chemical-quality survey of Lake Conroe, February 14, 1979

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

30212/095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | |
| 14... | 1500 | 1.00 | 232 | 8.6 | 9.5 | .90 | 11.9 | 107 | 77 | 11 |
| 14... | 1502 | 10.0 | 232 | 8.6 | 9.0 | -- | 11.9 | 106 | -- | -- |
| 14... | 1504 | 20.0 | 232 | 8.6 | 9.0 | -- | 11.9 | 106 | -- | -- |
| 14... | 1506 | 30.0 | 232 | 8.3 | 8.0 | -- | 11.3 | 98 | -- | -- |
| 14... | 1508 | 40.0 | 232 | 8.2 | 8.0 | -- | 11.1 | 97 | -- | -- |
| 14... | 1510 | 50.0 | 232 | 8.2 | 7.5 | -- | 10.9 | 94 | -- | -- |
| 14... | 1512 | 58.0 | 232 | 8.2 | 7.5 | -- | 10.9 | 94 | 77 | 11 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | |
| 14... | 27 | 2.4 | 14 | .7 | 2.8 | 80 | 66 | 0 | 8.8 | 29 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 27 | 2.4 | 14 | .7 | 2.8 | 81 | 66 | 0 | 9.4 | 30 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 14... | .10 | .8 | 120 | .030 | .020 | .030 | 1 | <100 | ND |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | .020 | .020 | .030 | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | 1.2 | 130 | .040 | .030 | .050 | 1 | <100 | ND |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 14... | <20 | <2 | <10 | ND | <10 | <.1 | <1 | ND | ND |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | <10 | -- | <10 | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | <20 | <2 | 40 | ND | 30 | <.1 | <1 | ND | <20 |

TABLE 17.--Chemical-quality survey of Lake Conroe, February 14, 1979--continued

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 14... | 1530 | 1.00 | 232 | 8.6 | 9.5 | 11.9 | 107 |
| 14... | 1532 | 10.0 | 232 | 8.6 | 9.5 | 11.9 | 107 |
| 14... | 1534 | 20.0 | 232 | 8.6 | 9.0 | 11.9 | 106 |
| 14... | 1536 | 30.0 | 232 | 8.4 | 8.5 | 11.5 | 102 |
| 14... | 1538 | 40.0 | 232 | 8.3 | 8.0 | 11.2 | 97 |
| 14... | 1540 | 50.0 | 232 | 8.1 | 7.5 | 10.7 | 92 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 14... | 1437 | 1.00 | 232 | 8.5 | 9.5 | 11.6 | 105 |
| 14... | 1440 | 10.0 | 232 | 8.4 | 9.0 | 11.5 | 103 |
| 14... | 1442 | 20.0 | 232 | 8.4 | 9.0 | 11.3 | 101 |
| 14... | 1444 | 29.0 | 232 | 8.3 | 8.5 | 11.0 | 97 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 14... | 1557 | 1.00 | 232 | 8.6 | 9.0 | 11.9 | 106 |
| 14... | 1600 | 10.0 | 232 | 8.6 | 9.0 | 11.9 | 106 |
| 14... | 1602 | 20.0 | 232 | 8.6 | 9.0 | 11.9 | 106 |
| 14... | 1604 | 30.0 | 232 | 8.6 | 9.0 | 11.9 | 106 |
| 14... | 1606 | 40.0 | 232 | 8.4 | 8.5 | 11.6 | 103 |
| 14... | 1608 | 48.0 | 232 | 8.3 | 8.0 | 11.3 | 98 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 14... | 1612 | 1.00 | 232 | 8.4 | 9.0 | 11.5 | 103 |
| 14... | 1614 | 10.0 | 232 | 8.4 | 9.0 | 11.5 | 103 |
| 14... | 1616 | 20.0 | 232 | 8.4 | 8.5 | 11.5 | 102 |
| 14... | 1618 | 34.0 | 232 | 8.4 | 8.5 | 11.5 | 102 |

TABLE 17.--Chemical-quality survey of Lake Conroe, February 14, 1979--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 14... | 1631 | 1.00 | 232 | 8.6 | 11.5 | 11.5 | 108 |
| 14... | 1633 | 10.0 | 232 | 8.5 | 11.0 | 11.5 | 107 |
| 14... | 1635 | 20.0 | 232 | 8.1 | 8.5 | 10.8 | 96 |
| 14... | 1638 | 27.0 | 232 | 8.2 | 8.5 | 11.0 | 97 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 14... | 1657 | 1.00 | 227 | 8.3 | 9.0 | .90 | 11.6 | 104 | 77 |
| 14... | 1700 | 10.0 | 227 | 8.3 | 9.0 | -- | 11.6 | 104 | -- |
| 14... | 1702 | 20.0 | 227 | 8.3 | 9.0 | -- | 11.6 | 104 | -- |
| 14... | 1704 | 30.0 | 219 | 8.2 | 8.5 | -- | 11.5 | 102 | -- |
| 14... | 1706 | 39.0 | 219 | 7.9 | 8.0 | -- | 10.4 | 90 | 71 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 14... | 16 | 27 | 2.4 | 14 | .7 | 2.7 | 74 | 61 | 0 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 12 | 25 | 2.2 | 13 | .7 | 2.7 | 73 | 60 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 14... | 8.6 | 27 | 1.5 | 120 | .030 | .010 | .040 | 30 | <10 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 7.6 | 28 | 3.4 | 120 | .110 | .040 | .060 | 130 | 20 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 14... | 1720 | 1.00 | 227 | 8.3 | 9.0 | 11.6 | 104 |
| 14... | 1722 | 10.0 | 227 | 8.2 | 8.5 | 11.3 | 100 |
| 14... | 1724 | 20.0 | 227 | 7.8 | 8.0 | 10.2 | 89 |
| 14... | 1726 | 28.0 | 227 | 7.8 | 8.0 | 9.8 | 85 |

TABLE 17.--Chemical-quality survey of Lake Conroe, February 14, 1979--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 14... | 1755 | 1.00 | 146 | 7.2 | 13.0 | .30 | 8.8 | 86 | 49 |
| 14... | 1758 | 10.0 | 130 | 7.0 | 11.5 | -- | 8.0 | 75 | -- |
| 14... | 1800 | 20.0 | 107 | 6.9 | 8.5 | -- | 7.8 | 69 | -- |
| 14... | 1802 | 28.0 | 107 | 6.9 | 8.5 | -- | 7.8 | 69 | 34 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 14... | 12 | 17 | 1.5 | 8.6 | .6 | 2.8 | 45 | 37 | 0 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 7 | 12 | 1.1 | 6.3 | .5 | 2.5 | 34 | 28 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 14... | 10 | 19 | 9.3 | 91 | .080 | .080 | .130 | 250 | 30 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 10 | 9.0 | 9.1 | 67 | .040 | .050 | .130 | 300 | 20 |

TABLE 18.--Chemical-quality survey of Lake Conroe, June 15, 1979

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

30212/095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | | |
| 15... | 0910 | 1.00 | 186 | 8.6 | 28.0 | 1.80 | 10.0 | 127 | 61 | / |
| 15... | 0912 | 10.0 | 190 | 7.6 | 26.0 | -- | 7.2 | 88 | -- | -- |
| 15... | 0914 | 20.0 | 190 | 7.4 | 25.5 | -- | 6.4 | 78 | -- | -- |
| 15... | 0916 | 30.0 | 194 | 7.0 | 25.0 | -- | 3.9 | 47 | -- | -- |
| 15... | 0918 | 40.0 | 210 | 6.8 | 22.0 | -- | .1 | 1 | -- | -- |
| 15... | 0920 | 55.0 | 269 | 7.2 | 18.0 | -- | .2 | 2 | 80 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | | |
| 15... | 21 | 2.0 | 11 | .6 | 2.5 | 62 | 54 | 2 | 8.4 | 15 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 28 | 2.5 | 14 | .7 | 2.8 | 110 | 90 | 0 | 5.0 | 19 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 15... | .10 | 2.1 | 97 | <.100 | .040 | .010 | 1 | 70 | <2 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | < 100 | .040 | .010 | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | .080 | .100 | .010 | -- | -- | -- |
| 15... | -- | 7.5 | 140 | <.100 | .860 | .050 | 13 | 200 | <2 |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 15... | ND | ND | 50 | ND | 3 | <.1 | <1 | ND | <3 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | 30 | -- | 30 | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | 30 | -- | 740 | -- | -- | -- | -- |
| 15... | ND | ND | 420 | ND | 6700 | <.1 | <1 | ND | <3 |

TABLE 18.--Chemical-quality survey of Lake Conroe, June 15, 1979--continued

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUN | | | | | | | |
| 15... | 0845 | 1.00 | 186 | 8.5 | 27.0 | 9.7 | 121 |
| 15... | 0847 | 10.0 | 190 | 7.6 | 26.0 | 7.3 | 89 |
| 15... | 0849 | 20.0 | 190 | 7.3 | 25.5 | 6.2 | 75 |
| 15... | 0851 | 30.0 | 195 | 6.9 | 24.5 | 3.8 | 45 |
| 15... | 0853 | 40.0 | 210 | 6.7 | 22.0 | .1 | 1 |
| 15... | 0855 | 54.0 | 256 | 7.0 | 19.0 | .2 | 2 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUN | | | | | | | |
| 15... | 0825 | 1.00 | 183 | 8.5 | 27.5 | 9.2 | 116 |
| 15... | 0827 | 10.0 | 183 | 7.4 | 26.5 | 6.3 | 78 |
| 15... | 0829 | 20.0 | 183 | 6.8 | 25.5 | 3.4 | 41 |
| 15... | 0831 | 30.0 | 155 | 6.5 | 24.5 | .2 | 2 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUN | | | | | | | |
| 15... | 0955 | 1.00 | 183 | 8.5 | 27.0 | 9.7 | 121 |
| 15... | 0957 | 10.0 | 183 | 8.4 | 26.5 | 9.2 | 114 |
| 15... | 0959 | 20.0 | 190 | 7.3 | 25.5 | 6.3 | 76 |
| 15... | 1001 | 30.0 | 190 | 6.8 | 24.5 | 2.8 | 33 |
| 15... | 1003 | 40.0 | 210 | 6.8 | 22.5 | .2 | 2 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUN | | | | | | | |
| 15... | 1010 | 1.00 | 183 | 8.6 | 27.5 | 9.6 | 121 |
| 15... | 1012 | 10.0 | 183 | 8.5 | 26.5 | 9.2 | 114 |
| 15... | 1014 | 20.0 | 190 | 7.3 | 25.5 | 6.3 | 76 |
| 15... | 1016 | 30.0 | 190 | 7.0 | 24.5 | 3.3 | 39 |
| 15... | 1018 | 40.0 | 214 | 6.8 | 22.0 | .1 | 1 |
| 15... | 1020 | 50.0 | 233 | 7.0 | 20.0 | .1 | 1 |
| 15... | 1022 | 58.0 | 240 | 7.0 | 20.0 | .2 | 2 |

TABLE 18.--Chemical-quality survey of Lake Conroe, June 15, 1979--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUN | | | | | | | |
| 15... | 1030 | 1.00 | 177 | 8.6 | 28.0 | 9.2 | 116 |
| 15... | 1032 | 10.0 | 177 | 7.0 | 26.0 | 4.6 | 56 |
| 15... | 1034 | 20.0 | 177 | 6.9 | 25.5 | 4.2 | 51 |
| 15... | 1036 | 27.0 | 150 | 6.6 | 25.0 | .1 | 1 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 15... | 1050 | 1.00 | 177 | 8.7 | 28.0 | 1.50 | 9.9 | 125 | 58 |
| 15... | 1052 | 10.0 | 177 | 8.1 | 26.5 | -- | 8.1 | 100 | -- |
| 15... | 1054 | 20.0 | 177 | 7.1 | 25.5 | -- | 5.4 | 65 | -- |
| 15... | 1056 | 30.0 | 188 | 6.7 | 24.0 | -- | 1.2 | 14 | -- |
| 15... | 1058 | 43.0 | 222 | 6.9 | 22.0 | -- | .2 | 2 | 72 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 15... | 6 | 20 | 1.9 | 11 | .7 | 2.4 | 59 | 52 | 2 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 0 | 25 | 2.3 | 12 | .6 | 2.6 | 88 | 72 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 15... | 7.1 | 15 | 2.0 | 93 | <.100 | .030 | .020 | 30 | <10 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | .060 | .070 | .020 | 70 | 120 |
| 15... | 7.1 | 16 | 6.1 | 120 | <.100 | .430 | .100 | 1100 | 2500 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JUN | | | | | | | |
| 15... | 1120 | 1.00 | 170 | 8.7 | 28.0 | 9.5 | 120 |
| 15... | 1122 | 10.0 | 170 | 6.8 | 25.5 | 3.4 | 41 |
| 15... | 1124 | 24.0 | 120 | 6.2 | 24.5 | .1 | 1 |

TABLE 18.--Chemical-quality survey of Lake Conroe, June 15, 1979--continued

303129095360501 SITE $G_c$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 15... | 1155 | 1.00 | 124 | 8.2 | 29.5 | 1.20 | 9.0 | 118 | 41 |
| 15... | 1157 | 10.0 | 129 | 6.4 | 25.5 | -- | .2 | 2 | -- |
| 15... | 1159 | 20.0 | 153 | 6.4 | 25.0 | -- | .1 | 1 | -- |
| 15... | 1201 | 33.0 | 160 | 6.5 | 25.0 | -- | .1 | 1 | 52 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 15... | 3 | 14 | 1.4 | 6.4 | .5 | 2.4 | 46 | 38 | 0 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 0 | 18 | 1.8 | 8.1 | .5 | 2.6 | 63 | 52 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 15... | 7.1 | 10 | 6.8 | 71 | <.100 | .030 | .070 | 140 | 20 |
| 15... | -- | -- | -- | -- | .020 | .060 | .160 | 560 | 300 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 8.4 | 13 | 7.9 | 93 | .010 | .410 | .310 | 1500 | 780 |

TABLE 19.--Chemical-quality survey of Lake Conroe, August 17, 1979

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

30212/095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | | |
| 17... | 0832 | 1.00 | 184 | 7.8 | 29.0 | 1.90 | 6.3 | 82 | 59 | 5 |
| 17... | 0834 | 10.0 | 184 | 7.8 | 29.0 | -- | 6.0 | 78 | -- | -- |
| 17... | 0836 | 20.0 | 184 | 7.3 | 29.0 | -- | 3.9 | 51 | -- | -- |
| 17... | 0838 | 30.0 | 194 | 7.0 | 27.0 | -- | .0 | 0 | -- | -- |
| 17... | 0840 | 40.0 | 222 | 7.1 | 23.0 | -- | .0 | 0 | -- | -- |
| 17... | 0842 | 50.0 | 255 | 7.1 | 20.0 | -- | .0 | 0 | -- | -- |
| 17... | 0844 | 60.0 | 300 | 7.1 | 17.5 | -- | .0 | 0 | -- | -- |
| 17... | 0846 | 69.0 | 321 | 7.0 | 17.5 | -- | .0 | 0 | 96 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | | |
| 17... | 21 | 1.7 | 10 | .6 | 2.5 | 67 | 55 | 0 | 8.3 | 20 |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | 34 | 2.7 | 13 | .6 | 3.0 | 150 | 123 | 0 | 7.4 | 25 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 17... | .10 | 2.5 | 99 | .010 | .010 | .010 | 1 | <100 | <2 |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | .010 | .010 | < 010 | -- | -- | -- |
| 17... | -- | -- | -- | .010 | .030 | <.010 | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | 12 | 190 | .010 | 1.60 | .260 | 22 | 200 | <2 |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 17... | ND | ND | <10 | ND | <10 | .2 | <1 | ND | 2 |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | 170 | -- | 520 | -- | -- | -- | -- |
| 17... | -- | -- | 130 | -- | 620 | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | <20 | ND | 6600 | ND | 7800 | <.1 | <1 | ND | 5 |

TABLE 19.--Chemical-quality survey of Lake Conroe, August 17, 1979--continued

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 17... | 0906 | 1.00 | 184 | 7.8 | 29.0 | 6.2 | 81 |
| 17... | 0908 | 10.0 | 184 | 7.7 | 29.0 | 6.0 | 78 |
| 17... | 0910 | 20.0 | 184 | 7.2 | 28.5 | 3.8 | 49 |
| 17... | 0912 | 30.0 | 194 | 6.9 | 27.0 | .0 | 0 |
| 17... | 0914 | 40.0 | 222 | 6.9 | 23.0 | .0 | 0 |
| 17... | 0916 | 46.0 | 245 | 7.0 | 22.0 | .0 | 0 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 17... | 0807 | 1.00 | 184 | 7.8 | 29.5 | 6.3 | 82 |
| 17... | 0809 | 10.0 | 184 | 7.8 | 29.5 | 6.2 | 81 |
| 17... | 0811 | 20.0 | 184 | 6.7 | 28.5 | .3 | 4 |
| 17... | 0813 | 29.0 | 199 | 6.7 | 27.5 | .1 | 1 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 17... | 0940 | 1.00 | 182 | 8.0 | 29.5 | 6.6 | 86 |
| 17... | 0942 | 10.0 | 182 | 7.9 | 29.0 | 6.5 | 84 |
| 17... | 0944 | 20.0 | 182 | 7.1 | 29.0 | 3.1 | 40 |
| 17... | 0946 | 30.0 | 200 | 6.8 | 26.5 | .1 | 1 |
| 17... | 0948 | 40.0 | 216 | 6.8 | 24.0 | .1 | 1 |
| 17... | 0950 | 49.0 | 259 | 6.8 | 22.0 | .1 | 1 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 17... | 0925 | 1.00 | 182 | 7.9 | 29.0 | 6.5 | 84 |
| 17... | 0927 | 10.0 | 182 | 7.9 | 29.0 | 6.4 | 83 |
| 17... | 0929 | 20.0 | 182 | 7.2 | 29.0 | 4.0 | 52 |
| 17... | 0931 | 34.0 | 200 | 6.8 | 26.5 | .1 | 1 |

TABLE 19.--Chemical-quality survey of Lake Conroe, August 17, 1979--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 17... | 1004 | 1.00 | 181 | 8.2 | 30.0 | 7.1 | 93 |
| 17... | 1006 | 10.0 | 181 | 8.2 | 30.0 | 6.9 | 91 |
| 17... | 1008 | 20.0 | 181 | 6.9 | 29.0 | 1.4 | 18 |
| 17... | 1010 | 30.0 | 215 | 6.6 | 26.5 | .1 | 1 |
| 17... | 1012 | 38.0 | 254 | 6.5 | 25.0 | .1 | 1 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 17... | 1030 | 1.00 | 180 | 8.1 | 30.0 | 2.00 | 6.8 | 89 | 57 |
| 17... | 1032 | 10.0 | 180 | 7.9 | 29.5 | -- | 6.6 | 86 | -- |
| 17... | 1034 | 20.0 | 180 | 7.3 | 29.0 | -- | 4.8 | 62 | -- |
| 17... | 1036 | 30.0 | 202 | 6.8 | 26.0 | -- | .1 | 1 | -- |
| 17... | 1038 | 43.0 | 253 | 6.6 | 23.0 | -- | .1 | 1 | 76 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 17... | 3 | 20 | 1.7 | 11 | .7 | 2.5 | 66 | 54 | 0 |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | 0 | 27 | 2.1 | 12 | .6 | 2.8 | 110 | 90 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 17... | 7.4 | 19 | 2.7 | 97 | .010 | .120 | .020 | <10 | 40 |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | -- | .010 | .010 | .040 | 80 | 160 |
| 17... | -- | -- | -- | -- | .010 | .200 | .050 | 510 | 1100 |
| 17... | 10 | 21 | 9.7 | 150 | .010 | 1.80 | .420 | 4800 | 3600 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| AUG | | | | | | | |
| 17... | 1055 | 1.00 | 180 | 8.1 | 30.0 | 6.7 | 88 |
| 17... | 1057 | 10.0 | 180 | 8.0 | 30.0 | 6.3 | 83 |
| 17... | 1059 | 23.0 | 180 | 6.7 | 29.0 | .1 | 1 |

TABLE 19.--Chemical-quality survey of Lake Conroe, August 17, 1979--continued

303129095360501 LAKE CONROE SITE $G_C$

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 17... | 1130 | 1.00 | 177 | 7.7 | 30.5 | 1.00 | 6.6 | 87 | 54 |
| 17... | 1132 | 10.0 | 177 | 7.1 | 30.0 | -- | 4.8 | 63 | -- |
| 17... | 1134 | 20.0 | 181 | 6.5 | 29.0 | -- | .1 | 1 | 54 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 17... | 3 | 19 | 1.7 | 11 | .7 | 2.5 | 64 | 52 | 0 |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | 1 | 19 | 1.6 | 11 | .7 | 2.5 | 65 | 53 | 0 |

| DATE | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 17... | 7.2 | 19 | 4.4 | 96 | .010 | .070 | .030 | <10 | 20 |
| 17... | -- | -- | -- | -- | .020 | .010 | .060 | 90 | 150 |
| 17... | 8.9 | 19 | 9.0 | 100 | .010 | .300 | .220 | 960 | 640 |

TABLE 20.--Chemical-quality survey of Lake Conroe, January 29, 1980

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

30212/095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | |
| 29... | 1135 | 1.00 | 185 | 7.4 | 12.0 | 1.20 | 8.8 | 81 | 65 | 6 |
| 29... | 1137 | 10.0 | 185 | 7.4 | 12.0 | -- | 8.7 | 81 | -- | -- |
| 29... | 1139 | 20.0 | 185 | 7.4 | 12.0 | -- | 8.6 | 80 | -- | -- |
| 29... | 1141 | 30.0 | 185 | 7.4 | 12.0 | -- | 8.6 | 80 | -- | -- |
| 29... | 1143 | 40.0 | 185 | 7.4 | 12.0 | -- | 8.6 | 80 | -- | -- |
| 29... | 1145 | 54.0 | 185 | 7.4 | 12.0 | -- | 8.6 | 80 | 60 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | |
| 29... | 23 | 1.8 | 10 | .6 | 2.6 | 72 | 59 | 0 | 6.6 | 18 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 21 | 1.8 | 9.3 | .5 | 2.6 | 72 | 59 | 0 | 4.2 | 16 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | |
| 29... | .10 | 1.3 | 99 | .090 | .42 | .51 | .020 | 1 | 80 | <1 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | .090 | .38 | .47 | .020 | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | 1.4 | 92 | .090 | .40 | .49 | .020 | 1 | 80 | <1 |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 29... | 0 | 0 | 20 | 0 | <1 | .0 | 0 | 0 | 7 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | 10 | -- | 10 | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 0 | 1 | 120 | 0 | 50 | .0 | 0 | 0 | 6 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 29... | 1200 | 1.00 | 185 | 7.4 | 12.0 | 8.8 | 81 |
| 29... | 1202 | 10.0 | 185 | 7.4 | 12.0 | 8.8 | 81 |
| 29... | 1204 | 20.0 | 185 | 7.4 | 12.0 | 8.8 | 81 |
| 29... | 1206 | 30.0 | 185 | 7.4 | 12.0 | 8.8 | 81 |
| 29... | 1208 | 40.0 | 185 | 7.4 | 12.0 | 8.8 | 81 |
| 29... | 1210 | 53.0 | 185 | 7.4 | 12.0 | 8.8 | 81 |

TABLE 20.--Chemical-quality survey of Lake Conroe, January 29, 1980--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 29... | 1115 | 1.00 | 188 | 7.6 | 12.5 | 9.4 | 88 |
| 29... | 1117 | 10.0 | 188 | 7.6 | 12.5 | 9.4 | 88 |
| 29... | 1119 | 20.0 | 188 | 7.6 | 12.5 | 9.4 | 88 |
| 29... | 1121 | 29.0 | 188 | 7.6 | 12.5 | 9.4 | 88 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 29... | 1245 | 1.00 | 185 | 7.5 | 12.0 | 8.5 | 79 |
| 29... | 1247 | 10.0 | 185 | 7.4 | 12.0 | 8.5 | 79 |
| 29... | 1249 | 20.0 | 185 | 7.4 | 12.0 | 8.5 | 79 |
| 29... | 1251 | 30.0 | 185 | 7.4 | 12.0 | 8.5 | 79 |
| 29... | 1253 | 40.0 | 185 | 7.4 | 12.0 | 8.4 | 78 |
| 29... | 1255 | 46.0 | 185 | 7.4 | 12.0 | 8.4 | 78 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 29... | 1220 | 1.00 | 185 | 7.5 | 12.0 | 8.5 | 79 |
| 29... | 1222 | 10.0 | 185 | 7.5 | 12.0 | 8.5 | 79 |
| 29... | 1224 | 20.0 | 185 | 7.5 | 12.0 | 8.4 | 78 |
| 29... | 1226 | 30.0 | 185 | 7.5 | 12.0 | 8.4 | 78 |
| 29... | 1228 | 40.0 | 185 | 7.4 | 12.0 | 8.3 | 77 |
| 29... | 1230 | 49.0 | 185 | 7.3 | 12.0 | 8.0 | 74 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 29... | 1305 | 1.00 | 185 | 7.7 | 12.5 | 9.1 | 85 |
| 29... | 1307 | 10.0 | 185 | 7.7 | 12.5 | 9.1 | 85 |
| 29... | 1309 | 20.0 | 185 | 7.6 | 12.5 | 9.1 | 85 |
| 29... | 1311 | 30.0 | 185 | 7.6 | 12.5 | 9.1 | 85 |

TABLE 20.--Chemical-quality survey of Lake Conroe, January 29, 1980--Continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | |
| 29... | 1335 | 1.00 | 183 | 7.4 | 12.0 | 1.10 | 8.7 | 81 | 60 | 3 |
| 29... | 1337 | 10.0 | 183 | 7.4 | 12.0 | -- | 8.7 | 81 | -- | -- |
| 29... | 1339 | 20.0 | 183 | 7.4 | 12.0 | -- | 8.7 | 81 | -- | -- |
| 29... | 1341 | 30.0 | 183 | 7.4 | 12.0 | -- | 8.7 | 81 | -- | -- |
| 29... | 1343 | 36.0 | 183 | 7.4 | 12.0 | -- | 8.7 | 81 | 60 | 2 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 29... | 21 | 1.9 | 9.8 | .6 | 2.5 | 70 | 57 | 0 | 4.1 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 21 | 1.9 | 9.6 | .6 | 2.5 | 71 | 58 | 0 | 3.6 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 29... | 16 | 1.2 | 91 | .090 | .42 | .51 | .020 | 20 | 2 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 16 | 1.3 | 91 | .090 | .35 | .44 | .030 | 20 | 4 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 29... | 1355 | 1.00 | 183 | 7.5 | 12.5 | 9.0 | 84 |
| 29... | 1357 | 10.0 | 183 | 7.4 | 12.5 | 8.9 | 83 |
| 29... | 1359 | 24.0 | 183 | 7.4 | 12.5 | 8.9 | 83 |

TABLE 20.--Chemical-quality survey of Lake Conroe, January 29, 1980--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | |
| 29... | 1430 | 1.00 | 270 | 7.4 | 12.0 | .90 | 8.4 | 78 | 81 | 19 |
| 29... | 1432 | 10.0 | 300 | 7.3 | 12.0 | -- | 8.2 | 76 | -- | -- |
| 29... | 1434 | 20.0 | 340 | 7.2 | 12.0 | -- | 7.0 | 65 | -- | -- |
| 29... | 1436 | 29.0 | 340 | 7.2 | 12.0 | -- | 7.0 | 65 | 97 | 26 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 29... | 28 | 2.6 | 20 | 1 | 4.0 | 76 | 62 | 0 | 13 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 34 | 3.0 | 26 | 1 | 4.2 | 87 | 71 | 0 | 19 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 29... | 35 | 9.8 | 150 | .050 | .70 | .75 | .080 | 100 | 8 |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 48 | 15 | 190 | .060 | .66 | .72 | .120 | 90 | 30 |

TABLE 21.--Chemical-quality survey of Lake Conroe, May 22, 1980

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; < less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 22... | 1000 | 1.00 | 188 | 8.4 | 25.5 | 2.38 | 8.6 | 104 | 67 | 10 |
| 22... | 1002 | 10.0 | 188 | 8.4 | 25.0 | -- | 8.7 | 105 | -- | -- |
| 22... | 1004 | 20.0 | 188 | 8.4 | 25.0 | -- | 8.7 | 105 | -- | -- |
| 22... | 1006 | 30.0 | 190 | 7.2 | 22.0 | -- | 5.3 | 61 | -- | -- |
| 22... | 1008 | 40.0 | 190 | 6.8 | 20.0 | -- | 1.9 | 21 | -- | -- |
| 22... | 1010 | 50.0 | 223 | 7.1 | 18.0 | -- | 1.2 | 15 | -- | -- |
| 22... | 1012 | 58.0 | 223 | 7.1 | 18.0 | -- | 1.2 | 13 | 74 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 22... | 23 | 2.3 | 10 | .6 | 2.4 | 66 | 57 | 2 | 5.5 | 17 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 26 | 2.1 | 9.9 | .5 | 2.7 | 94 | 77 | 0 | 3.9 | 17 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 22... | .10 | 1.8 | 99 | .010 | -- | -- | .020 | 1 | 70 | <1 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | .010 | .60 | .61 | .020 | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | .060 | .47 | .53 | .020 | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | 4.9 | 120 | .000 | .93 | .93 | .030 | 4 | 100 | <1 |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 22... | 0 | 0 | <10 | 0 | 7 | .5 | 0 | 0 | <3 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | 150 | -- | 20 | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | 540 | -- | 210 | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 0 | 1 | -- | 0 | 3900 | .4 | 0 | 0 | <3 |

TABLE 21.--Chemical-quality survey of Lake Conroe, May 22, 1980--continued

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 22... | 1036 | 1.00 | 188 | 8.4 | 25.5 | 8.6 | 105 |
| 22... | 1038 | 10.0 | 188 | 8.4 | 25.0 | 8.6 | 104 |
| 22... | 1040 | 20.0 | 188 | 8.4 | 25.0 | 8.7 | 105 |
| 22... | 1042 | 30.0 | 190 | 7.1 | 22.0 | 4.8 | 55 |
| 22... | 1044 | 40.0 | 190 | 6.8 | 19.5 | 2.0 | 22 |
| 22... | 1046 | 50.0 | 200 | 6.8 | 19.0 | 1.1 | 12 |
| 22... | 1048 | 54.0 | 223 | 6.8 | 18.5 | .7 | 7 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 22... | 0942 | 1.00 | 175 | 8.4 | 25.5 | 8.7 | 106 |
| 22... | 0944 | 10.0 | 175 | 8.4 | 25.5 | 8.8 | 107 |
| 22... | 0946 | 20.0 | 190 | 7.0 | 23.0 | 4.0 | 47 |
| 22... | 0948 | 32.0 | 205 | 6.7 | 22.0 | .8 | 9 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 22... | 1104 | 1.00 | 188 | 8.4 | 25.5 | 8.6 | 105 |
| 22... | 1106 | 10.0 | 188 | 8.3 | 24.5 | 8.4 | 101 |
| 22... | 1108 | 20.0 | 188 | 8.1 | 24.0 | 8.0 | 95 |
| 22... | 1110 | 30.0 | 190 | 7.0 | 22.0 | 4.0 | 46 |
| 22... | 1112 | 40.0 | 200 | 6.8 | 19.5 | 1.2 | 13 |
| 22... | 1114 | 50.0 | 200 | 6.8 | 19.5 | 1.2 | 13 |
| 22... | 1116 | 55.0 | 215 | 6.8 | 18.0 | 1.0 | 11 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 22... | 1122 | 1.00 | 188 | 8.4 | 25.0 | 8.5 | 102 |
| 22... | 1124 | 10.0 | 188 | 8.2 | 24.0 | 8.4 | 100 |
| 22... | 1126 | 20.0 | 188 | 8.0 | 24.0 | 8.0 | 95 |
| 22... | 1128 | 30.0 | 190 | 7.0 | 23.5 | 4.7 | 55 |
| 22... | 1130 | 40.0 | 200 | 6.8 | 19.5 | 1.7 | 18 |
| 22... | 1132 | 51.0 | 200 | 6.8 | 19.0 | .7 | 8 |

TABLE 21.--Chemical quality survey of Lake Conroe, May 22, 1980--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 22... | 1157 | 1.00 | 173 | 8.7 | 26.0 | 9.0 | 111 |
| 22... | 1159 | 10.0 | 173 | 8.7 | 25.5 | 9.2 | 112 |
| 22... | 1201 | 20.0 | 200 | 6.7 | 22.5 | 1.1 | 13 |
| 22... | 1203 | 31.0 | 200 | 6.8 | 21.5 | .7 | 8 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 22... | 1228 | 1.00 | 187 | 8.5 | 25.0 | 1.80 | 9.1 | 110 | 66 | 9 |
| 22... | 1230 | 10.0 | 187 | 8.1 | 24.5 | -- | 8.1 | 96 | -- | -- |
| 22... | 1232 | 20.0 | 187 | 7.1 | 22.5 | -- | 5.6 | 64 | -- | -- |
| 22... | 1234 | 30.0 | 195 | 6.8 | 21.0 | -- | 3.0 | 34 | -- | -- |
| 22... | 1236 | 40.0 | 205 | 6.7 | 20.0 | -- | .8 | 9 | 71 | 6 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 22... | 23 | 2.2 | 11 | .6 | 2.4 | 62 | 58 | 4 | 5.6 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 25 | 2.2 | 11 | .6 | 2.5 | 80 | 66 | 0 | 5.7 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 22... | 18 | 1.9 | 100 | .010 | 1.3 | 1.3 | .030 | <10 | 5 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | .010 | .72 | .73 | .020 | 630 | 20 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 18 | 3.6 | 110 | .010 | 1.4 | 1.4 | .050 | -- | 1100 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 22... | 1304 | 1.00 | 187 | 8.6 | 25.5 | 8.8 | 107 |
| 22... | 1306 | 10.0 | 196 | 7.1 | 23.5 | 5.0 | 59 |
| 22... | 1308 | 24.0 | 202 | 6.6 | 22.0 | 1.2 | 14 |

TABLE 21.--Chemical-quality survey of Lake Conroe, May 22, 1980--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 22... | 1355 | 1.00 | 112 | 6.5 | 26.0 | .46 | 4.9 | 60 | 38 | 5 |
| 22... | 1357 | 10.0 | 160 | 6.4 | 22.5 | -- | .9 | 10 | -- | -- |
| 22... | 1359 | 20.0 | 180 | 6.4 | 21.5 | -- | .8 | 9 | -- | -- |
| 22... | 1401 | 33.0 | 183 | 6.4 | 21.5 | -- | .8 | 9 | 59 | 10 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 22... | 13 | 1.4 | 6.3 | .5 | 2.9 | 40 | 33 | 0 | 3.4 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 20 | 2.1 | 12 | .7 | 3.1 | 60 | 49 | 0 | 6.8 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 22... | 11 | 10 | 68 | .020 | 1.1 | 1.1 | .120 | 170 | 40 |
| 22... | -- | -- | -- | .020 | 1.0 | 1.0 | .140 | 240 | 200 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 19 | 12 | 110 | .010 | 1.3 | 1.3 | .360 | 1100 | 640 |

TABLE 22.--Chemical-quality survey of Lake Conroe, September 11, 1980

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | | |
| 11... | 1026 | 1.00 | 200 | 7.7 | 28.5 | 1.77 | 8.1 | 103 | 64 | 13 |
| 11... | 1028 | 10.0 | 200 | 7.4 | 28.0 | -- | 7.2 | 90 | -- | -- |
| 11... | 1030 | 20.0 | 200 | 7.3 | 27.5 | -- | 6.2 | 78 | -- | -- |
| 11... | 1032 | 30.0 | 200 | 6.8 | 27.5 | -- | 4.5 | 56 | -- | -- |
| 11... | 1034 | 40.0 | 232 | 6.5 | 21.5 | -- | .1 | 1 | -- | -- |
| 11... | 1036 | 51.0 | 267 | 6.3 | 19.0 | -- | .1 | 1 | 85 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | | |
| 11... | 22 | 2.1 | 12 | .7 | 2.8 | 62 | 51 | 0 | 5.1 | 23 |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | 30 | 2.4 | 11 | .5 | 3.0 | 120 | 98 | 0 | 2.1 | 18 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | | |
| 11... | .10 | 3.2 | 100 | .000 | .67 | .67 | .040 | 2 | 50 | <1 |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | -- | .000 | .58 | .58 | .030 | -- | -- | -- |
| 11... | -- | -- | -- | .000 | .60 | .60 | .050 | -- | -- | -- |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | 10 | 150 | .000 | 3.0 | 3.0 | .520 | 15 | 200 | <1 |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 11... | 20 | 0 | <10 | 1 | 9 | .0 | 0 | 0 | <3 |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | 20 | -- | 30 | -- | -- | -- | -- |
| 11... | -- | -- | 120 | -- | 290 | -- | -- | -- | -- |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | 0 | 0 | 6100 | 1 | 4800 | .0 | 0 | 0 | 5 |

TABLE 22.--Chemical-quality survey of Lake Conroe, September 11, 1980--continued

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 11... | 1055 | 1.00 | 200 | 7.8 | 29.0 | 8.2 | 105 |
| 11... | 1057 | 10.0 | 200 | 7.7 | 28.0 | 7.7 | 96 |
| 11... | 1059 | 20.0 | 200 | 7.1 | 27.5 | 6.2 | 78 |
| 11... | 1101 | 30.0 | 200 | 6.7 | 27.0 | 3.9 | 48 |
| 11... | 1103 | 40.0 | 232 | 6.5 | 21.5 | .2 | 2 |
| 11... | 1105 | 49.0 | 260 | 6.4 | 19.5 | .2 | 2 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 11... | 1002 | 1.00 | 200 | 7.9 | 29.0 | 8.3 | 106 |
| 11... | 1004 | 10.0 | 200 | 7.1 | 28.0 | 5.8 | 72 |
| 11... | 1006 | 20.0 | 200 | 6.7 | 27.5 | 2.8 | 35 |
| 11... | 1008 | 26.0 | 200 | 6.5 | 27.5 | .4 | 5 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 11... | 0920 | 1.00 | 200 | 7.9 | 28.5 | 8.5 | 108 |
| 11... | 0922 | 10.0 | 200 | 7.3 | 28.0 | 6.8 | 85 |
| 11... | 0924 | 20.0 | 200 | 7.0 | 27.5 | 5.7 | 71 |
| 11... | 0926 | 30.0 | 200 | 6.8 | 27.0 | 4.5 | 56 |
| 11... | 0928 | 44.0 | 245 | 6.5 | 21.5 | .5 | 6 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 11... | 0938 | 1.00 | 200 | 7.8 | 29.0 | 8.2 | 105 |
| 11... | 0940 | 10.0 | 200 | 7.1 | 27.5 | 6.2 | 78 |
| 11... | 0942 | 20.0 | 200 | 6.7 | 27.5 | 4.5 | 56 |
| 11... | 0944 | 30.0 | 200 | 6.6 | 27.0 | 3.5 | 43 |
| 11... | 0946 | 35.0 | 238 | 6.6 | 22.0 | .2 | 2 |

TABLE 22.--Chemical-quality survey of Lake Conroe, September 11, 1980--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 11... | 0900 | 1.00 | 200 | 7.9 | 28.5 | 8.2 | 104 |
| 11... | 0902 | 10.0 | 200 | 7.2 | 28.0 | 5.9 | 74 |
| 11... | 0904 | 21.0 | 200 | 6.5 | 27.0 | 1.4 | 17 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | | |
| 11... | 1136 | 1.00 | 200 | 8.1 | 29.5 | 1.49 | 9.2 | 118 | 64 | 5 |
| 11... | 1138 | 10.0 | 200 | 6.9 | 28.0 | -- | 5.2 | 65 | -- | -- |
| 11... | 1140 | 20.0 | 200 | 6.8 | 28.0 | -- | 4.6 | 58 | -- | -- |
| 11... | 1142 | 30.0 | 200 | 6.4 | 27.5 | -- | .8 | 10 | -- | -- |
| 11... | 1144 | 40.0 | 280 | 6.5 | 22.5 | -- | .3 | 3 | 97 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 11... | 22 | 2.2 | 13 | .7 | 2.9 | 72 | 59 | 0 | 4.2 |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | 35 | 2.4 | 12 | .6 | 2.8 | 130 | 107 | 0 | 1.3 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 11... | 22 | 4.5 | 110 | .000 | .79 | .79 | .030 | <10 | 10 |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | -- | .000 | .62 | .62 | .040 | 10 | 200 |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | 20 | 6.3 | 160 | .000 | 2.5 | 2.5 | .530 | 7200 | 6000 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | PHOSPHORUS, TOTAL (MG/L AS P) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 11... | 1210 | 1.00 | 200 | 7.9 | 30.5 | 8.5 | 111 | -- |
| 11... | 1212 | 10.0 | 207 | 6.8 | 28.5 | 4.2 | 53 | .140 |
| 11... | 1214 | 20.0 | 220 | 6.4 | 28.0 | .5 | 6 | .210 |

TABLE 22.--Chemical-quality survey of Lake Conroe, September 11, 1980--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | | |
| 11... | 1250 | 1.00 | 206 | 8.1 | 30.5 | 1.28 | 9.4 | 124 | 64 | 5 |
| 11... | 1252 | 5.00 | 209 | 7.6 | 29.0 | -- | 7.7 | 99 | -- | -- |
| 11... | 1254 | 10.0 | 215 | 6.4 | 27.0 | -- | .1 | 1 | -- | -- |
| 11... | 1256 | 20.0 | 215 | 6.4 | 26.5 | -- | .1 | 1 | -- | -- |
| 11... | 1258 | 30.0 | 215 | 6.4 | 26.5 | -- | .1 | 1 | 64 | 4 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | BICARBONATE FET-FLD (MG/L AS HCO3) | ALKALINITY FIELD (MG/L AS CACO3) | CARBONATE FET-FLD (MG/L AS CO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 11... | 22 | 2.3 | 13 | .7 | 2.8 | 73 | 60 | 0 | 5.1 |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | 22 | 2.3 | 14 | .8 | 3.2 | 74 | 61 | 0 | 3.7 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 11... | 25 | 4.5 | 110 | .000 | .96 | .96 | .050 | <10 | 10 |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | -- | -- | -- | .000 | .90 | .90 | .070 | 80 | 200 |
| 11... | -- | -- | -- | -- | -- | -- | .190 | -- | -- |
| 11... | 27 | 4.6 | 110 | .000 | 1.1 | 1.1 | .110 | 290 | 170 |

TABLE 23.--Chemical-quality survey of Lake Conroe, January 15, 1981

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | |
| 15... | 1030 | 1.00 | 205 | 7.8 | 11.0 | 1.70 | 9.9 | 89 | 69 | 7 |
| 15... | 1032 | 10.0 | 205 | 7.8 | 11.0 | -- | 9.9 | 89 | -- | -- |
| 15... | 1034 | 20.0 | 205 | 7.8 | 11.0 | -- | 9.8 | 88 | -- | -- |
| 15... | 1036 | 30.0 | 205 | 7.7 | 11.0 | -- | 9.7 | 87 | -- | -- |
| 15... | 1038 | 40.0 | 205 | 7.7 | 11.0 | -- | 9.6 | 86 | -- | -- |
| 15... | 1040 | 54.0 | 205 | 7.6 | 11.0 | -- | 9.2 | 83 | 67 | 5 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 15... | 24 | 2.2 | 13 | .7 | 2.7 | 62 | 8.4 | 16 | .20 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 23 | 2.2 | 12 | .7 | 2.5 | 62 | 7.2 | 16 | -- |

| DATE | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 15... | 2.5 | 110 | .260 | .72 | .98 | .020 | 0 | 90 | <1 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | .180 | .80 | .98 | .040 | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 2.6 | 100 | .180 | .83 | 1.0 | .040 | 1 | 90 | 2 |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 15... | 0 | <10 | 30 | <10 | 2 | .2 | 0 | 1 | <3 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | 30 | -- | 0 | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 0 | <10 | 30 | <10 | 30 | .5 | 0 | 1 | 30 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 15... | 1054 | 1.00 | 205 | 7.8 | 11.5 | 10.0 | 91 |
| 15... | 1056 | 10.0 | 205 | 7.8 | 11.0 | 9.9 | 89 |
| 15... | 1058 | 20.0 | 205 | 7.8 | 11.0 | 9.8 | 88 |
| 15... | 1100 | 30.0 | 205 | 7.8 | 11.0 | 9.8 | 88 |
| 15... | 1102 | 45.0 | 205 | 7.6 | 11.0 | 9.4 | 84 |

TABLE 23.--Chemical-quality survey of Lake Conroe, January 15, 1981--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 15... | 1000 | 1.00 | 201 | 8.2 | 11.0 | 10.3 | 93 |
| 15... | 1002 | 10.0 | 201 | 8.1 | 11.0 | 10.1 | 91 |
| 15... | 1004 | 20.0 | 201 | 7.9 | 11.0 | 10.1 | 91 |
| 15... | 1006 | 28.0 | 201 | 7.7 | 11.0 | 10.0 | 90 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 15... | 1118 | 1.00 | 205 | 7.8 | 11.0 | 9.7 | 87 |
| 15... | 1120 | 10.0 | 205 | 7.7 | 11.0 | 9.6 | 86 |
| 15... | 1122 | 20.0 | 205 | 7.7 | 11.0 | 9.5 | 85 |
| 15... | 1124 | 30.0 | 205 | 7.7 | 11.0 | 9.5 | 85 |
| 15... | 1126 | 43.0 | 205 | 7.5 | 11.0 | 9.1 | 82 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 15... | 1139 | 1.00 | 205 | 7.7 | 11.5 | 9.6 | 87 |
| 15... | 1141 | 10.0 | 205 | 7.7 | 11.0 | 9.5 | 85 |
| 15... | 1143 | 20.0 | 205 | 7.7 | 11.0 | 9.5 | 85 |
| 15... | 1145 | 30.0 | 205 | 7.7 | 11.0 | 9.5 | 85 |
| 15... | 1147 | 37.0 | 205 | 7.7 | 11.0 | 9.6 | 86 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 15... | 1202 | 1.00 | 205 | 7.8 | 11.5 | 9.9 | 90 |
| 15... | 1204 | 10.0 | 205 | 7.9 | 11.0 | 9.8 | 88 |
| 15... | 1206 | 22.0 | 205 | 7.8 | 11.0 | 9.8 | 88 |

TABLE 23.--Chemical-quality survey of Conroe, January 15, 1981--continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 15... | 1219 | 1.00 | 205 | 7.6 | 11.5 | 1.20 | 9.3 | 85 | 66 |
| 15... | 1221 | 10.0 | 205 | 7.6 | 10.5 | -- | 9.3 | 83 | -- |
| 15... | 1223 | 20.0 | 205 | 7.6 | 10.5 | -- | 9.3 | 83 | -- |
| 15... | 1225 | 30.0 | 205 | 7.5 | 10.5 | -- | 9.3 | 83 | -- |
| 15... | 1227 | 37.0 | 205 | 7.6 | 10.5 | -- | 9.3 | 83 | 66 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 15... | 3 | 23 | 2.0 | 12 | .7 | 2.4 | 63 | 6.7 | 16 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 4 | 23 | 2.0 | 13 | .7 | 2.5 | 62 | 6.6 | 16 |

| DATE | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | |
| 15... | 2.3 | 100 | .160 | .88 | 1.0 | .020 | 20 | 8 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 2.4 | 100 | .160 | .79 | .95 | .040 | 20 | 10 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|
| JAN | | | | | | | |
| 15... | 1243 | 1.00 | 205 | 7.7 | 12.0 | 9.7 | 89 |
| 15... | 1245 | 10.0 | 205 | 7.8 | 11.0 | 9.6 | 86 |
| 15... | 1247 | 19.0 | 205 | 7.7 | 11.0 | 9.6 | 86 |

TABLE 23.--Chemical-quality survey of Lake Conroe, January 15, 1981--continued

303129095360501 LAKE CONROE SITE $G_C$

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 15... | 1316 | 1.00 | 228 | 8.8 | 11.0 | 1.80 | 10.8 | 97 | 62 |
| 15... | 1318 | 10.0 | 228 | 8.4 | 10.5 | -- | 10.5 | 93 | -- |
| 15... | 1320 | 20.0 | 228 | 8.6 | 10.5 | -- | 10.5 | 93 | -- |
| 15... | 1322 | 26.0 | 228 | 8.6 | 10.5 | -- | 10.5 | 94 | 64 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 15... | 3 | 21 | 2.3 | 18 | 1 | 2.9 | 59 | 8.7 | 26 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 3 | 22 | 2.2 | 19 | 1 | 3.1 | 61 | 8.0 | 25 |

| DATE | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | |
| 15... | .3 | 110 | .050 | .82 | .87 | .040 | <10 | 6 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | .5 | 120 | .040 | 1.1 | 1.1 | .050 | 70 | 10 |

TABLE 24.--Chemical-quality survey of Lake Conroe, May 21, 1981

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius;
M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter;
--parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 21... | 1235 | 1.00 | 202 | 7.8 | 24.0 | 2.06 | 7.4 | 87 | 67 | 8 |
| 21... | 1237 | 10.0 | 202 | 7.6 | 23.0 | -- | 6.9 | 80 | -- | -- |
| 21... | 1239 | 20.0 | 202 | 7.4 | 23.0 | -- | 6.5 | 75 | -- | -- |
| 21... | 1241 | 30.0 | 202 | 7.3 | 23.0 | -- | 5.7 | 66 | -- | -- |
| 21... | 1243 | 40.0 | 207 | 6.7 | 19.5 | -- | .3 | 3 | -- | -- |
| 21... | 1245 | 49.0 | 220 | 6.9 | 18.0 | -- | .2 | 2 | 77 | 10 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 21... | 23 | 2.3 | 13 | .7 | 2.3 | 59 | 7.0 | 21 | .10 |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | 27 | 2.3 | 13 | .7 | 2.5 | 67 | 6.3 | 21 | -- |

| DATE | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 21... | 1.7 | 110 | .020 | .80 | .82 | .030 | 1 | 200 | <1 |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | .020 | .89 | .91 | .020 | -- | -- | -- |
| 21... | -- | -- | .060 | .67 | .73 | .020 | -- | -- | -- |
| 21... | 3.8 | 120 | .020 | .98 | 1.0 | .030 | 4 | 300 | <1 |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 21... | 10 | <10 | <10 | 17 | 3 | .0 | 0 | 0 | 6 |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | 10 | -- | 0 | -- | -- | -- | -- |
| 21... | -- | -- | 10 | -- | 10 | -- | -- | -- | -- |
| 21... | 10 | <10 | 30 | <10 | 2100 | .0 | 0 | 0 | 5 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 21... | 1335 | 1.00 | 202 | 7.9 | 24.0 | 2.04 | 7.7 | 91 |
| 21... | 1337 | 10.0 | 202 | 7.8 | 23.5 | -- | 7.4 | 87 |
| 21... | 1339 | 20.0 | 202 | 7.6 | 23.0 | -- | 7.0 | 81 |
| 21... | 1341 | 30.0 | 202 | 7.4 | 23.0 | -- | 6.3 | 73 |
| 21... | 1343 | 40.0 | 209 | 6.7 | 19.5 | -- | .3 | 3 |
| 21... | 1345 | 50.0 | 220 | 6.9 | 17.5 | -- | .4 | 4 |

TABLE 24.--Chemical-quality survey of Lake Conroe, May 21, 1981--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 21... | 1144 | 1.00 | 186 | 8.0 | 24.0 | 2.20 | 7.7 | 91 |
| 21... | 1146 | 10.0 | 186 | 7.9 | 24.0 | -- | 7.5 | 88 |
| 21... | 1148 | 20.0 | 186 | 7.9 | 24.0 | -- | 7.1 | 84 |
| 21... | 1150 | 29.0 | 186 | 6.9 | 23.5 | -- | 5.8 | 68 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 21... | 1430 | 1.00 | 202 | 7.9 | 24.0 | 1.92 | 7.5 | 89 |
| 21... | 1432 | 10.0 | 202 | 7.8 | 23.5 | -- | 7.4 | 87 |
| 21... | 1434 | 20.0 | 202 | 7.7 | 23.0 | -- | 7.0 | 81 |
| 21... | 1436 | 30.0 | 202 | 7.6 | 23.0 | -- | 6.6 | 76 |
| 21... | 1438 | 40.0 | 210 | 6.8 | 20.0 | -- | .3 | 3 |
| 21... | 1440 | 48.0 | 216 | 6.8 | 19.5 | -- | .4 | 4 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 21... | 1400 | 1.00 | 202 | 7.8 | 23.5 | 2.12 | 7.5 | 88 |
| 21... | 1402 | 10.0 | 202 | 7.7 | 23.0 | -- | 7.3 | 84 |
| 21... | 1404 | 20.0 | 202 | 7.6 | 23.0 | -- | 7.0 | 81 |
| 21... | 1406 | 30.0 | 202 | 7.4 | 23.0 | -- | 6.5 | 75 |
| 21... | 1408 | 40.0 | 209 | 6.8 | 20.5 | -- | 1.5 | 17 |
| 21... | 1410 | 46.0 | 209 | 6.7 | 20.0 | -- | .7 | 8 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 21... | 1510 | 1.00 | 192 | 8.1 | 24.5 | 1.93 | 7.4 | 88 |
| 21... | 1512 | 10.0 | 192 | 8.1 | 24.5 | -- | 7.3 | 87 |
| 21... | 1514 | 24.0 | 198 | 7.2 | 23.5 | -- | 5.0 | 58 |

TABLE 24.--Chemical-quality survey of Lake Conroe, May 21, 1981--continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 21... | 1530 | 1.00 | 202 | 8.0 | 24.5 | 1.70 | 7.7 | 91 | 64 |
| 21... | 1532 | 10.0 | 202 | 8.0 | 24.0 | -- | 7.6 | 90 | -- |
| 21... | 1536 | 20.0 | 202 | 7.7 | 23.5 | -- | 6.9 | 81 | -- |
| 21... | 1538 | 30.0 | 210 | 6.9 | 22.5 | -- | 5.2 | 60 | -- |
| 21... | 1540 | 39.0 | 212 | 6.8 | 21.0 | -- | .6 | 7 | 69 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 21... | 7 | 22 | 2.2 | 13 | .7 | 2.4 | 57 | 7.0 | 23 |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | 7 | 24 | 2.3 | 13 | .7 | 2.4 | 63 | 6.7 | 21 |

| DATE | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 21... | 1.9 | 110 | .010 | .72 | .73 | .020 | <10 | 8 |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | .020 | .77 | .79 | .020 | 10 | 40 |
| 21... | 3.2 | 110 | .010 | .83 | .84 | .030 | 20 | 340 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 21... | 1610 | 1.00 | 195 | 8.4 | 24.5 | 2.05 | 8.2 | 98 |
| 21... | 1612 | 10.0 | 195 | 8.1 | 24.0 | -- | 7.5 | 88 |
| 21... | 1614 | 20.0 | 195 | 7.0 | 23.0 | -- | 2.8 | 32 |

TABLE 24.--Chemical-quality survey of Lake Conroe, May 21, 1981--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 21... | 1645 | 1.00 | 240 | 7.9 | 25.5 | 1.01 | 7.4 | 90 | 77 |
| 21... | 1647 | 10.0 | 253 | 6.9 | 23.5 | -- | 3.1 | 36 | -- |
| 21... | 1649 | 20.0 | 290 | 6.7 | 22.5 | -- | .4 | 5 | -- |
| 21... | 1651 | 31.0 | 295 | 6.8 | 22.5 | -- | .4 | 5 | 100 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 21... | 10 | 27 | 2.4 | 16 | .8 | 3.5 | 67 | 10 | 28 |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | 12 | 36 | 2.7 | 19 | .9 | 4.8 | 89 | 4.8 | 33 |

| DATE | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 21... | 5.7 | 130 | .020 | .99 | 1.0 | .080 | 20 | 6 |
| 21... | -- | -- | .020 | 1.0 | 1.0 | .120 | 100 | 180 |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | 8.1 | 160 | .020 | 1.3 | 1.3 | .380 | 1100 | 790 |

TABLE 25.--Chemical-quality survey of Lake Conroe, August 20, 1981

UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) |
|---|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | | |
| 20... | 1105 | 1.00 | 183 | 8.0 | 30.5 | 1.40 | 5.6 | 74 | 59 | 7 |
| 20... | 1107 | 10.0 | 183 | 7.8 | 30.0 | -- | 5.4 | 71 | -- | -- |
| 20... | 1109 | 20.0 | 183 | 7.7 | 30.0 | -- | 5.2 | 68 | -- | -- |
| 20... | 1111 | 30.0 | 204 | 6.7 | 26.0 | -- | .0 | 0 | -- | -- |
| 20... | 1113 | 40.0 | 215 | 6.8 | 22.5 | -- | .0 | 0 | -- | -- |
| 20... | 1115 | 50.0 | 224 | 6.9 | 21.5 | -- | .0 | 0 | 75 | 0 |

| DATE | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) | FLUORIDE, DISSOLVED (MG/L AS F) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 20... | 20 | 2.2 | 12 | .7 | 2.5 | 52 | 1.0 | 24 | .10 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | 26 | 2.3 | 13 | .7 | 2.6 | 82 | 2.0 | 17 | -- |

| DATE | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC DISSOLVED (UG/L AS AS) | BARIUM, DISSOLVED (UG/L AS BA) | CADMIUM DISSOLVED (UG/L AS CD) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 20... | 3.2 | 96 | .120 | .84 | .96 | .040 | 1 | 70 | <1 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | <.100 | .78 | -- | .040 | -- | -- | -- |
| 20... | -- | -- | <.100 | .82 | -- | .040 | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | 5.9 | 120 | <.100 | 1.3 | -- | .180 | 10 | 150 | <1 |

| DATE | CHROMIUM, DISSOLVED (UG/L AS CR) | COPPER, DISSOLVED (UG/L AS CU) | IRON, DISSOLVED (UG/L AS FE) | LEAD, DISSOLVED (UG/L AS PB) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY DISSOLVED (UG/L AS HG) | SELENIUM, DISSOLVED (UG/L AS SE) | SILVER, DISSOLVED (UG/L AS AG) | ZINC, DISSOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 20... | 0 | <10 | <10 | <10 | 23 | .0 | 0 | 0 | <3 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | 10 | -- | 30 | -- | -- | -- | -- |
| 20... | -- | -- | 1400 | -- | 1600 | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | 0 | <10 | 1500 | <10 | 3200 | .1 | 0 | 0 | <3 |

Table 25.--Chemical-quality survey of Lake Conroe, August 20, 1981--continued

302132095333701 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 20... | 1146 | 1.00 | 185 | 7.9 | 30.5 | 1.35 | 5.7 | 75 |
| 20... | 1148 | 10.0 | 185 | 7.8 | 30.5 | -- | 5.4 | 71 |
| 20... | 1150 | 20.0 | 185 | 7.7 | 30.5 | -- | 5.4 | 71 |
| 20... | 1152 | 30.0 | 202 | 6.7 | 26.5 | -- | .0 | 0 |
| 20... | 1154 | 40.0 | 217 | 6.8 | 22.5 | -- | .0 | 0 |
| 20... | 1156 | 50.0 | 233 | 6.8 | 20.5 | -- | .0 | 0 |
| 20... | 1158 | 60.0 | 275 | 6.8 | 19.0 | -- | .0 | 0 |
| 20... | 1200 | 66.0 | 282 | 7.0 | 18.5 | -- | .0 | 0 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 20... | 1039 | 1.00 | 185 | 7.9 | 30.5 | 1.95 | 4.9 | 65 |
| 20... | 1041 | 10.0 | 185 | 7.7 | 30.5 | -- | 4.5 | 59 |
| 20... | 1043 | 20.0 | 185 | 7.4 | 30.0 | -- | 3.8 | 50 |
| 20... | 1045 | 27.0 | 185 | 6.8 | 29.5 | -- | 1.1 | 14 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 20... | 1250 | 1.00 | 182 | 7.8 | 30.5 | 1.80 | 5.8 | 77 |
| 20... | 1252 | 10.0 | 182 | 7.7 | 30.5 | -- | 5.7 | 75 |
| 20... | 1254 | 20.0 | 182 | 7.3 | 30.0 | -- | 4.8 | 63 |
| 20... | 1256 | 30.0 | 203 | 6.8 | 25.0 | -- | .0 | 0 |
| 20... | 1258 | 40.0 | 215 | 6.8 | 23.0 | -- | .0 | 0 |
| 20... | 1300 | 56.0 | 233 | 6.8 | 22.0 | -- | .0 | 0 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 20... | 1230 | 1.00 | 182 | 7.8 | 30.5 | 1.87 | 5.8 | 77 |
| 20... | 1232 | 10.0 | 182 | 7.7 | 30.0 | -- | 5.7 | 75 |
| 20... | 1234 | 20.0 | 182 | 7.3 | 30.0 | -- | 4.8 | 63 |
| 20... | 1236 | 30.0 | 203 | 6.8 | 25.0 | -- | .0 | 0 |
| 20... | 1238 | 40.0 | 215 | 6.8 | 23.0 | -- | .0 | 0 |
| 20... | 1240 | 48.0 | 233 | 6.8 | 22.0 | -- | .0 | 0 |

Table 25.--Chemical-quality survey of Lake Conroe, August 20, 1981--continued

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 20... | 1334 | 1.00 | 183 | 8.2 | 31.0 | 1.68 | 6.0 | 80 |
| 20... | 1336 | 10.0 | 183 | 8.0 | 30.5 | -- | 5.5 | 73 |
| 20... | 1338 | 20.0 | 183 | 7.4 | 30.5 | -- | 4.2 | 56 |
| 20... | 1340 | 26.0 | 185 | 6.8 | 29.5 | -- | .7 | 9 |

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 20... | 1354 | 1.00 | 184 | 7.5 | 30.5 | 1.29 | 5.3 | 70 |
| 20... | 1356 | 10.0 | 184 | 7.7 | 30.0 | -- | 5.5 | 73 |
| 20... | 1358 | 20.0 | 184 | 7.2 | 30.0 | -- | 4.3 | 57 |
| 20... | 1400 | 34.0 | 224 | 6.7 | 25.0 | -- | .0 | 0 |

| DATE | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 20... | 59 | 4 | 20 | 2.2 | 12 | .7 | 2.5 | 55 | <1.0 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | 74 | 0 | 26 | 2.3 | 13 | .7 | 2.6 | 85 | 4.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 20... | 22 | 3.6 | 89 | <.100 | .77 | .050 | <10 | 5 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | <.100 | .79 | .030 | 60 | 60 |
| 20... | 35 | 6.1 | 140 | <.100 | 1.7 | .300 | 2800 | 2200 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 20... | 1421 | 1.00 | 179 | 8.1 | 31.0 | 1.56 | 6.1 | 81 |
| 20... | 1423 | 10.0 | 179 | 7.4 | 30.0 | -- | 4.6 | 61 |
| 20... | 1425 | 23.0 | 179 | 6.6 | 29.0 | -- | .0 | 0 |

Table 25.--Chemical-quality survey of Lake Conroe, August 20, 1981--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 20... | 1504 | 1.00 | 184 | 7.7 | 31.5 | 1.01 | 6.8 | 91 | 59 |
| 20... | 1506 | 10.0 | 184 | 6.9 | 30.5 | -- | 4.0 | 53 | -- |
| 20... | 1508 | 20.0 | 184 | 6.3 | 30.0 | -- | .0 | 0 | -- |
| 20... | 1510 | 32.0 | 185 | 6.3 | 29.5 | -- | .0 | 0 | 61 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | |
| 20... | 3 | 20 | 2.1 | 12 | .7 | 2.7 | 56 | 1.0 | 21 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | 0 | 21 | 2.1 | 12 | .7 | 2.5 | 66 | 4.0 | 16 |

| DATE | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | |
| 20... | 6.7 | 99 | .110 | 1.0 | 1.1 | .050 | <10 | 4 |
| 20... | -- | -- | <.100 | .95 | -- | .060 | 30 | 20 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | 11 | 110 | .120 | 1.7 | 1.8 | .340 | 1700 | 650 |

TABLE 26.--Chemical-quality survey of Lake Conroe, March 3, 1982

UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 03... | 0920 | 1.00 | 182 | 7.8 | 12.5 | 1.19 | 10.7 | 101 | 67 |
| 03... | 0922 | 10.0 | 182 | 7.7 | 12.0 | -- | 10.4 | 97 | -- |
| 03... | 0924 | 20.0 | 182 | 7.5 | 11.5 | -- | 10.4 | 96 | -- |
| 03... | 0926 | 30.0 | 182 | 7.5 | 11.5 | -- | 10.5 | 97 | -- |
| 03... | 0928 | 40.0 | 182 | 7.4 | 11.0 | -- | 10.5 | 96 | -- |
| 03... | 0930 | 53.0 | 184 | 7.4 | 11.0 | -- | 10.5 | 96 | 70 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 03... | 7 | 23 | 2.3 | 12 | .7 | 2.5 | 60 | <5.0 | 23 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | 9 | 24 | 2.5 | 14 | .8 | 2.7 | 61 | <5.0 | 29 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 03... | .20 | .8 | 99 | <.090 | .67 | -- | .010 | 7 | <1 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | <.090 | .71 | -- | .010 | 50 | 10 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | 1.1 | 109 | .090 | 1.0 | 1.1 | .040 | 20 | 10 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 03... | 0946 | 1.00 | 182 | 7.8 | 12.5 | 1.18 | 10.6 | 100 |
| 03... | 0948 | 10.0 | 182 | 7.7 | 12.5 | -- | 10.5 | 99 |
| 03... | 0950 | 20.0 | 182 | 7.5 | 12.0 | -- | 10.3 | 96 |
| 03... | 0952 | 30.0 | 182 | 7.4 | 11.5 | -- | 10.3 | 95 |
| 03... | 0954 | 40.0 | 182 | 7.4 | 11.0 | -- | 10.5 | 96 |
| 03... | 0956 | 55.0 | 184 | 7.4 | 10.5 | -- | 10.7 | 97 |

TABLE 26.--Chemical-quality survey of Lake Conroe, March 3, 1982--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 03... | 0900 | 1.00 | 184 | 7.9 | 12.5 | 1.50 | 10.9 | 103 |
| 03... | 0902 | 10.0 | 184 | 7.8 | 12.5 | -- | 10.6 | 100 |
| 03... | 0904 | 20.0 | 184 | 7.4 | 11.5 | -- | 10.2 | 94 |
| 03... | 0906 | 29.0 | 187 | 7.4 | 11.5 | -- | 9.9 | 91 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 03... | 1016 | 1.00 | 182 | 7.8 | 12.5 | 1.17 | 10.9 | 103 |
| 03... | 1018 | 10.0 | 182 | 7.8 | 12.0 | -- | 10.9 | 102 |
| 03... | 1020 | 20.0 | 182 | 7.7 | 12.0 | -- | 10.7 | 100 |
| 03... | 1022 | 30.0 | 182 | 7.7 | 12.0 | -- | 10.3 | 96 |
| 03... | 1024 | 40.0 | 182 | 7.3 | 11.0 | -- | 10.3 | 94 |
| 03... | 1026 | 50.0 | 184 | 7.4 | 11.0 | -- | 10.5 | 96 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 03... | 1000 | 1.00 | 182 | 7.8 | 12.5 | 1.04 | 10.8 | 102 |
| 03... | 1002 | 10.0 | 182 | 7.8 | 12.5 | -- | 10.7 | 101 |
| 03... | 1004 | 20.0 | 182 | 7.7 | 12.0 | -- | 10.3 | 96 |
| 03... | 1006 | 30.0 | 182 | 7.4 | 11.5 | -- | 9.9 | 91 |
| 03... | 1008 | 40.0 | 182 | 7.3 | 11.0 | -- | 9.8 | 90 |
| 03... | 1010 | 50.0 | 184 | 7.3 | 11.0 | -- | 9.9 | 90 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 03... | 1040 | 1.00 | 186 | 8.1 | 13.0 | 1.78 | 10.2 | 98 |
| 03... | 1042 | 10.0 | 186 | 7.5 | 12.0 | -- | 9.8 | 92 |
| 03... | 1044 | 20.0 | 182 | 7.3 | 11.5 | -- | 9.9 | 92 |
| 03... | 1046 | 27.0 | 182 | 7.4 | 11.5 | -- | 10.1 | 93 |

TABLE 26.--Chemical-quality survey of Lake Conroe, March 3, 1982--continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 03... | 1100 | 1.00 | 182 | 7.8 | 12.5 | 1.00 | 10.7 | 101 |
| 03... | 1102 | 10.0 | 182 | 7.7 | 12.0 | -- | 10.5 | 98 |
| 03... | 1104 | 20.0 | 182 | 7.5 | 12.0 | -- | 10.2 | 95 |
| 03... | 1106 | 35.0 | 182 | 7.3 | 11.5 | -- | 10.4 | 96 |

| DATE | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 03... | 67 | 8 | 23 | 2.3 | 13 | .7 | 2.6 | 59 | <5.0 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | 66 | 8 | 23 | 2.2 | 12 | .7 | 2.5 | 59 | <5.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 03... | 27 | .6 | 103 | <.090 | .80 | .010 | 7 | <1 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | 22 | 1.1 | 98 | <.090 | .87 | .010 | 12 | 7 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 03... | 1120 | 1.00 | 182 | 7.9 | 13.0 | 1.34 | 10.5 | 100 |
| 03... | 1122 | 10.0 | 182 | 7.6 | 12.5 | -- | 9.9 | 94 |
| 03... | 1124 | 23.0 | 182 | 7.1 | 11.5 | -- | 10.1 | 93 |

TABLE 26.--Chemical-quality survey of Lake Conroe, March 3, 1982--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 03... | 1200 | 1.00 | 235 | 7.7 | 14.0 | .82 | 10.3 | 101 |
| 03... | 1202 | 10.0 | 285 | 7.9 | 13.5 | -- | 10.2 | 99 |
| 03... | 1204 | 20.0 | 325 | 7.4 | 13.0 | -- | 9.8 | 94 |
| 03... | 1206 | 31.0 | 333 | 7.3 | 12.5 | -- | 10.0 | 95 |

| DATE | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | |
| 03... | 80 | 14 | 28 | 2.4 | 18 | .9 | 3.7 | 66 | <5.0 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | 100 | 28 | 35 | 3.3 | 25 | 1 | 5.9 | 73 | 5.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 03... | 34 | .6 | 124 | <.090 | .84 | .020 | 17 | <1 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | 58 | 4.0 | 180 | <.090 | .76 | .040 | 26 | 16 |

TABLE 27.--Chemical-quality survey of Lake Conroe, June 3, 1982

UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 03... | 0840 | 1.00 | 183 | 7.6 | 26.5 | 1.22 | 6.0 | 75 | 61 |
| 03... | 0842 | 10.0 | 183 | 7.2 | 26.0 | -- | 4.9 | 61 | -- |
| 03... | 0844 | 20.0 | 186 | 6.7 | 24.0 | -- | 1.1 | 13 | -- |
| 03... | 0846 | 30.0 | 191 | 6.7 | 21.0 | -- | .3 | 3 | -- |
| 03... | 0848 | 40.0 | 191 | 6.8 | 20.0 | -- | .5 | 6 | -- |
| 03... | 0850 | 53.0 | 244 | 7.3 | 17.0 | -- | .0 | 0 | 85 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 03... | 4 | 21 | 2.1 | 13 | .8 | 2.6 | 57 | 6.0 | 19 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | 3 | 30 | 2.5 | 13 | .6 | 2.9 | 82 | <5.0 | 19 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | .20 | 2.2 | 100 | <.100 | .60 | <.010 | <3 | 4 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | <.100 | .60 | <.010 | 10 | 30 |
| 03... | -- | -- | -- | <.100 | .70 | <.010 | 10 | 40 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | 7.5 | 129 | <.100 | 2.0 | .140 | 1300 | 6400 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | 0910 | 1.00 | 185 | 7.6 | 27.0 | 1.22 | 6.2 | 79 |
| 03... | 0913 | 10.0 | 185 | 7.1 | 26.0 | -- | 4.6 | 57 |
| 03... | 0916 | 20.0 | 187 | 6.7 | 24.0 | -- | 1.0 | 12 |
| 03... | 0919 | 30.0 | 191 | 6.7 | 21.0 | -- | .3 | 3 |
| 03... | 0922 | 40.0 | 191 | 6.9 | 20.0 | -- | .3 | 3 |
| 03... | 0925 | 56.0 | 229 | 7.3 | 17.0 | -- | .0 | 0 |

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | 0819 | 1.00 | 174 | 8.4 | 27.5 | 1.36 | 7.9 | 101 |
| 03... | 0821 | 10.0 | 166 | 8.4 | 27.0 | -- | 6.9 | 87 |
| 03... | 0823 | 20.0 | 190 | 6.5 | 24.5 | -- | .0 | 0 |
| 03... | 0825 | 27.0 | 190 | 6.5 | 22.0 | -- | .0 | 0 |

TABLE 27.--Chemical-quality survey of Lake Conroe, June 3, 1982--continued

302323095341201 SITE $C_c$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | 0955 | 1.00 | 185 | 8.1 | 27.5 | 1.13 | 7.1 | 91 |
| 03... | 0957 | 10.0 | 185 | 7.6 | 26.5 | -- | 6.2 | 78 |
| 03... | 0959 | 20.0 | 185 | 7.0 | 26.0 | -- | 4.5 | 56 |
| 03... | 1001 | 30.0 | 190 | 6.7 | 21.5 | -- | .2 | 2 |
| 03... | 1003 | 40.0 | 200 | 6.9 | 20.0 | -- | .0 | 0 |
| 03... | 1005 | 49.0 | 208 | 7.1 | 19.5 | -- | .2 | 2 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | 0941 | 1.00 | 185 | 8.0 | 27.5 | 1.22 | 6.5 | 83 |
| 03... | 0943 | 10.0 | 185 | 7.6 | 26.5 | -- | 5.5 | 69 |
| 03... | 0945 | 20.0 | 185 | 6.9 | 25.5 | -- | 2.8 | 35 |
| 03... | 0947 | 30.0 | 190 | 6.7 | 21.5 | -- | .2 | 2 |
| 03... | 0949 | 40.0 | 200 | 6.9 | 20.0 | -- | .0 | 0 |
| 03... | 0951 | 49.0 | 204 | 7.0 | 19.5 | -- | .3 | 3 |

302448095374101 SITE $D_c$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | 1026 | 1.00 | 173 | 8.6 | 28.5 | 1.47 | 7.1 | 92 |
| 03... | 1028 | 15.0 | 186 | 7.2 | 26.5 | -- | 4.1 | 51 |
| 03... | 1030 | 24.0 | 198 | 6.6 | 25.0 | -- | .0 | 0 |

302607095360901 SITE $E_e$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | 1044 | 1.00 | 186 | 8.2 | 28.0 | .92 | 6.9 | 89 |
| 03... | 1046 | 10.0 | 185 | 8.0 | 27.5 | -- | 6.3 | 81 |
| 03... | 1048 | 20.0 | 185 | 7.5 | 27.0 | -- | 4.7 | 60 |
| 03... | 1050 | 35.0 | 194 | 6.9 | 22.0 | -- | .1 | 1 |

TABLE 27.--Chemical-quality survey of Lake Conroe, June 3, 1982--continued

302607095360901 SITE $E_C$--continued

| DATE | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 03... | 63 | 7 | 22 | 2.0 | 12 | .7 | 2.7 | 56 | 6.0 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | 66 | 6 | 23 | 2.2 | 13 | .7 | 2.6 | 61 | 5.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | 18 | 2.3 | 99 | <.100 | 1.1 | <.010 | 6 | 3 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | <.100 | .90 | .040 | 30 | 30 |
| 03... | 18 | 3.2 | 100 | <.100 | 1.6 | .030 | 93 | 700 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | 1106 | 1.00 | 178 | 8.7 | 29.0 | 1.32 | 7.5 | 98 |
| 03... | 1108 | 10.0 | 178 | 8.3 | 28.0 | -- | 5.4 | 70 |
| 03... | 1110 | 24.0 | 172 | 6.4 | 22.0 | -- | .1 | 1 |

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | 1142 | 1.00 | 167 | 8.2 | 26.5 | .45 | 5.7 | 75 |
| 03... | 1144 | 10.0 | 158 | 6.4 | 27.0 | -- | 1.2 | 15 |
| 03... | 1146 | 20.0 | 160 | 6.1 | 25.0 | -- | .0 | 0 |
| 03... | 1148 | 33.0 | 163 | 6.2 | 24.5 | -- | .0 | 0 |

| DATE | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | |
| 03... | 55 | 7 | 19 | 1.9 | 11 | .7 | 2.8 | 48 | 6.0 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | 52 | 0 | 18 | 1.8 | 8.4 | .5 | 4.0 | 54 | 5.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | |
| 03... | 16 | 3.6 | 89 | <.100 | .90 | .050 | 26 | 15 |
| 03... | -- | -- | -- | <.100 | 1.1 | .110 | 180 | 350 |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | 12 | 11 | 95 | <.100 | .30 | .770 | 1900 | 840 |

TABLE 28.--Chemical-quality survey of Lake Conroe, September 2, 1982

(UMHOS-micromhos per centimeter at 25° Celsius; DEG C-degrees celsius; M-meters; MG/L-milligrams per liter; UG/L-micrograms per liter; --parameter not determined; <-less than)

302127095335501 SITE $A_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | HARDNESS (MG/L AS CACO3) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 02... | 0848 | 1.00 | 190 | 7.1 | 29.0 | 1.36 | 4.2 | 55 | 64 |
| 02... | 0850 | 10.0 | 190 | 7.0 | 29.0 | -- | 3.5 | 46 | -- |
| 02... | 0852 | 20.0 | 190 | 6.8 | 29.0 | -- | 2.3 | 30 | -- |
| 02... | 0854 | 30.0 | 210 | 6.6 | 25.0 | -- | .0 | 0 | -- |
| 02... | 0856 | 40.0 | 210 | 6.6 | 20.5 | -- | .0 | 0 | -- |
| 02... | 0858 | 54.0 | 318 | 6.5 | 18.5 | -- | .0 | 0 | 97 |

| DATE | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) | CHLORIDE, DISSOLVED (MG/L AS CL) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 02... | 7 | 22 | 2.1 | 13 | .7 | 3.1 | 57 | 6.0 | 21 |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | 0 | 34 | 3.0 | 13 | .6 | 3.3 | 140 | 7.0 | 21 |

| DATE | FLUORIDE, DISSOLVED (MG/L AS F) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | .10 | 2.4 | 100 | <.100 | 1.1 | .040 | 6 | 13 |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | -- | -- | -- | <.100 | 1.4 | .040 | 40 | 30 |
| 02... | -- | -- | -- | <.100 | 1.3 | .040 | 970 | 3200 |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | -- | 15 | 200 | <.100 | 9.0 | .930 | 8300 | 6900 |

302132095333701 SITE $A_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | 0924 | 1.00 | 190 | 7.1 | 29.5 | 1.35 | 4.1 | 54 |
| 02... | 0926 | 10.0 | 200 | 6.9 | 29.0 | -- | 3.2 | 42 |
| 02... | 0928 | 20.0 | 200 | 6.8 | 28.5 | -- | 1.6 | 21 |
| 02... | 0930 | 30.0 | 219 | 6.6 | 26.0 | -- | .0 | 0 |
| 02... | 0932 | 40.0 | 219 | 6.7 | 20.5 | -- | .0 | 0 |
| 02... | 0934 | 55.0 | 300 | 6.7 | 19.0 | -- | .0 | 0 |

TABLE 28.--Chemical-quality survey of Lake Conroe, September 2, 1982--continued

302245095365301 SITE $B_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | 0828 | 1.00 | 185 | 7.4 | 29.5 | 1.39 | 5.0 | 66 |
| 02... | 0830 | 10.0 | 185 | 7.1 | 29.5 | -- | 4.3 | 57 |
| 02... | 0832 | 20.0 | 196 | 6.5 | 29.0 | -- | .1 | 1 |
| 02... | 0834 | 27.0 | 270 | 6.4 | 28.0 | -- | .0 | 0 |

302323095341201 SITE $C_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | 1020 | 1.00 | 190 | 7.7 | 30.0 | 1.24 | 6.6 | 88 |
| 02... | 1022 | 10.0 | 190 | 7.3 | 29.5 | -- | 5.1 | 67 |
| 02... | 1024 | 20.0 | 190 | 7.2 | 29.5 | -- | 4.3 | 57 |
| 02... | 1026 | 30.0 | 221 | 6.7 | 25.5 | -- | .0 | 0 |
| 02... | 1028 | 40.0 | 221 | 6.7 | 21.5 | -- | .0 | 0 |
| 02... | 1030 | 55.0 | 234 | 6.8 | 20.5 | -- | .0 | 0 |

302320095334001 SITE $C_1$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | 1000 | 1.00 | 190 | 7.7 | 30.0 | 1.32 | 5.8 | 77 |
| 02... | 1002 | 10.0 | 190 | 7.3 | 29.5 | -- | 4.9 | 64 |
| 02... | 1004 | 20.0 | 190 | 6.8 | 29.0 | -- | 2.8 | 37 |
| 02... | 1006 | 30.0 | 220 | 6.7 | 26.0 | -- | .0 | 0 |
| 02... | 1008 | 40.0 | 220 | 6.7 | 21.5 | -- | .0 | 0 |
| 02... | 1010 | 50.0 | 239 | 6.7 | 20.5 | -- | .0 | 0 |

302448095374101 SITE $D_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | 1047 | 1.00 | 189 | 7.8 | 30.5 | 1.23 | 6.1 | 82 |
| 02... | 1049 | 10.0 | 189 | 7.2 | 30.0 | -- | 4.8 | 64 |
| 02... | 1051 | 20.0 | 189 | 7.0 | 30.0 | -- | 4.6 | 61 |
| 02... | 1053 | 24.0 | 213 | 6.5 | 29.5 | -- | .0 | 0 |

TABLE 28.--Chemical-quality survey of Lake Conroe, September 2, 1982--continued

302607095360901 SITE $E_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | 1104 | 1.00 | 188 | 7.8 | 31.0 | 1.22 | 6.5 | 88 |
| 02... | 1106 | 10.0 | 188 | 7.7 | 30.5 | -- | 6.4 | 86 |
| 02... | 1108 | 20.0 | 188 | 7.3 | 30.0 | -- | 5.8 | 77 |
| 02... | 1110 | 34.0 | 249 | 6.8 | 23.5 | -- | .0 | 0 |

| DATE | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 02... | 64 | 8 | 22 | 2.3 | 13 | .7 | 2.9 | 57 | 6.0 |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | 83 | 0 | 29 | 2.6 | 13 | .6 | 2.7 | 97 | 10 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | 20 | 2.5 | 100 | <.100 | 1.1 | .040 | 4 | 5 |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | -- | -- | -- | <.100 | 1.3 | .050 | 20 | 40 |
| 02... | 22 | 7.6 | 150 | <.100 | 2.9 | .330 | 5400 | 3800 |

302714095372201 SITE $F_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | 1126 | 1.00 | 190 | 7.9 | 31.5 | 1.27 | 6.3 | 86 |
| 02... | 1128 | 10.0 | 190 | 7.9 | 31.0 | -- | 6.3 | 85 |
| 02... | 1130 | 22.0 | 198 | 6.4 | 28.5 | -- | .0 | 0 |

TABLE 28.--Chemical-quality survey of Lake Conroe, September 2, 1982--continued

303129095360501 SITE $G_C$

| DATE | TIME | SAMPLING DEPTH (FEET) | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | TRANSPARENCY (SECCHI DISK) (M) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | 1154 | 1.00 | 191 | 7.7 | 31.5 | .87 | 6.6 | 90 |
| 02... | 1156 | 10.0 | 191 | 6.7 | 30.5 | -- | 4.0 | 54 |
| 02... | 1158 | 20.0 | 191 | 6.4 | 30.0 | -- | .0 | 0 |
| 02... | 1200 | 33.0 | 196 | 6.4 | 30.0 | -- | .0 | 0 |

| DATE | HARDNESS (MG/L AS CACO3) | HARDNESS, NONCARBONATE (MG/L CACO3) | CALCIUM DISSOLVED (MG/L AS CA) | MAGNESIUM, DISSOLVED (MG/L AS MG) | SODIUM, DISSOLVED (MG/L AS NA) | SODIUM ADSORPTION RATIO | POTASSIUM, DISSOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CACO3) | SULFATE DISSOLVED (MG/L AS SO4) |
|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | |
| 02... | 64 | 8 | 22 | 2.2 | 14 | .8 | 2.5 | 56 | 6.0 |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | 63 | 4 | 22 | 2.0 | 14 | .8 | 1.2 | 59 | 7.0 |

| DATE | CHLORIDE, DISSOLVED (MG/L AS CL) | SILICA, DISSOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) |
|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | |
| 02... | 21 | 3.8 | 110 | <.100 | 1.3 | .070 | 4 | 2 |
| 02... | -- | -- | -- | <.100 | 1.1 | .050 | 10 | 10 |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | 21 | 5.9 | 110 | <.100 | 1.7 | .180 | 820 | 310 |

TABLE 29.--Phytoplankton analyses of Lake Conroe, October 1977 to August 1978

302127095335501 Site AC

| | |
|---|---|
| DATE | MAR 14,78 |
| TIME | 0946 |
| TOTAL CELLS/ML | 3200 |
| DIVERSITY: DIVISION | 1.6 |
| .CLASS | 1.6 |
| ..ORDER | 1.9 |
| ...FAMILY | 2.2 |
| ....GENUS | 2.7 |

| ORGANISM | CELLS /ML | PER-CENT |
|---|---|---|
| CHLOROPHYTA (GREEN ALGAE) | | |
| .CHLOROPHYCEAE | | |
| ..CHLOROCOCCALES | | |
| ...COELASTRACEAE | | |
| ....COELASTRUM | 69 | 2 |
| ...MICRACTINIACEAE | | |
| ....MICRACTINIUM | 23 | 1 |
| ...OOCYSTACEAE | | |
| ....ANKISTRODESMUS | 76 | 2 |
| ....KIRCHNERIELLA | 23 | 1 |
| ....OOCYSTIS | 130 | 4 |
| ....SELENASTRUM | 61 | 2 |
| ....TETRAEDRON | * | 0 |
| ...SCENEDESMACEAE | | |
| ....CRUCIGENIA | 31 | 1 |
| ....SCENEDESMUS | 69 | 2 |
| ....TETRASTRUM | 92 | 3 |
| ..TETRASPORALES | | |
| ...COCCOMYXACEAE | | |
| ....ELAKATOTHRIX | 76 | 2 |
| ..ZYGNEMATALES | | |
| ...ZYGNEMATACEAE | | |
| ....MOUGEOTIA | 31 | 1 |
| CHRYSOPHYTA | | |
| .BACILLARIOPHYCEAE | | |
| ..CENTRALES | | |
| ...COSCINODISCACEAE | | |
| ....CYCLOTELLA | 230 | 7 |
| ....MELOSIRA | 670# | 21 |
| ..PENNALES | | |
| ...FRAGILARIACEAE | | |
| ....SYNEDRA | * | 0 |
| ...NITZSCHIACEAE | | |
| ....NITZSCHIA | 99 | 3 |
| CYANOPHYTA (BLUE-GREEN ALGAE) | | |
| .CYANOPHYCEAE | | |
| ..CHROCOCCALES | | |
| ...CHROCOCCACEAE | | |
| ....ANACYSTIS | 1400# | 45 |
| ..HORMOGONALES | | |
| ...NOSTOCACEAE | | |
| ....ANABAENA | * | 0 |
| EUGLENOPHYTA (EUGLENOIDS) | | |
| .EUGLENOPHYCEAE | | |
| ..EUGLENALES | | |
| ...EUGLENACEAE | | |
| ....TRACHELOMONAS | * | 0 |
| PYRRHOPHYTA (FIRE ALGAE) | | |
| .DINOPHYCEAE | | |
| ..PERIDINIALES | | |
| ...GLENODINIACEAE | | |
| ....GLENODINIUM | 31 | 1 |

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

TABLE 29.--Phytoplankton analyses of Lake Conroe, October 1977 to August 1978--Continued

303129095360501 Site GC

| | |
|---|---|
| DATE | MAR 14,78 |
| TIME | 1246 |
| TOTAL CELLS/ML | 6100 |
| DIVERSITY: DIVISION | 1.6 |
| .CLASS | 1.6 |
| ..ORDER | 2.0 |
| ...FAMILY | 3.0 |
| ....GENUS | 3.7 |

| ORGANISM | CELLS /ML | PER-CENT |
|---|---|---|
| CHLOROPHYTA (GREEN ALGAE) | | |
| .CHLOROPHYCEAE | | |
| ..CHLOROCOCCALES | | |
| ...COELASTRACEAE | | |
| ....COELASTRUM | 540 | 9 |
| ...MICRACTINIACEAE | | |
| ....GOLENKINIA | 67 | 1 |
| ....MICRACTINIUM | 200 | 3 |
| ...OOCYSTACEAE | | |
| ....ANKISTRODESMUS | 570 | 9 |
| ....DICTYOSPHAERIUM | 400 | 7 |
| ....KIRCHNERIELLA | 200 | 3 |
| ....OOCYSTIS | 100 | 2 |
| ....POLYDRIOPSIS | 33 | 1 |
| ...SCENEDESMACEAE | | |
| ....SCENEDESMUS | 870 | 14 |
| ....TETRASTRUM | 540 | 9 |
| ..TETRASPORALES | | |
| ...PALMELLACEAE | | |
| ....GLOEOCYSTIS | 130 | 2 |
| CHRYSOPHYTA | | |
| .BACILLARIOPHYCEAE | | |
| ..CENTRALES | | |
| ...COSCINODISCACEAE | | |
| ....CYCLOTELLA | 1000# | 16 |
| ....STEPHANODISCUS | 33 | 1 |
| ..PENNALES | | |
| ...FRAGILARIACEAE | | |
| ....SYNEDRA | 330 | 5 |
| ...GOMPHONEMATACEAE | | |
| ....GOMPHONEMA | 33 | 1 |
| ...NAVICULACEAE | | |
| ....NAVICULA | 33 | 1 |
| CYANOPHYTA (BLUE-GREEN ALGAE) | | |
| .CYANOPHYCEAE | | |
| ..CHROCCOCCALES | | |
| ...CHROCCOCCACEAE | | |
| ....ANACYSTIS | 670 | 11 |
| EUGLENOPHYTA (EUGLENOIDS) | | |
| .CRYPTOPHYCEAE | | |
| ..CRYPTOMONIDALES | | |
| ...CRYPTOMONODACEAE | | |
| ....CRYPTOMONAS | 100 | 2 |
| .EUGLENOPHYCEAE | | |
| ..EUGLENALES | | |
| ...EUGLENACEAE | | |
| ....EUGLENA | 33 | 1 |
| ....TRACHELOMONAS | 170 | 3 |
| PYRRHOPHYTA (FIRE ALGAE) | | |
| .DINOPHYCEAE | | |
| ..PERIDINIALES | | |
| ...PERIDINIACEAE | | |
| ....PERIDINIUM | 67 | 1 |

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

TABLE 29.--Phytoplankton analyses of Lake Conroe, October 1977 to August 1978--Continued

302127095335501 Site AC

| | |
|---|---|
| DATE | JUL 13,78 |
| TIME | 1006 |
| TOTAL CELLS/ML | 130000 |
| DIVERSITY: DIVISION | 0.4 |
| .CLASS | 0.4 |
| ..ORDER | 1.4 |
| ...FAMILY | 2.2 |
| ....GENUS | 2.7 |

| ORGANISM | CELLS /ML | PER-CENT |
|---|---|---|
| CHLOROPHYTA (GREEN ALGAE) | | |
| .CHLOROPHYCEAE | | |
| ..CHLOROCOCCALES | | |
| ...OOCYSTACEAE | | |
| ....ANKISTRODESMUS | 4300 | 3 |
| ....TETRAEDRON | * | 0 |
| ....TREUBARIA | * | 0 |
| ..VOLVOCALES | | |
| ...CHLAMYDOMONADACEAE | | |
| ....CHLAMYDOMONAS | * | 0 |
| ..ZYGNEMATALES | | |
| ...ZYGNEMATACEAE | | |
| ....MOUGEOTIA | 1200 | 1 |
| CHRYSOPHYTA | | |
| .BACILLARIOPHYCEAE | | |
| ..PENNALES | | |
| ...ACHNANTHACEAE | | |
| ....ACHNANTHES | * | 0 |
| ...NITZSCHIACEAE | | |
| ....NITZSCHIA | 1600 | 1 |
| CRYPTOPHYTA (CRYPTOMONADS) | | |
| .CRYPTOPHYCEAE | | |
| ..CRYPTOMONIDALES | | |
| ...CRYPTOMONOOACEAE | | |
| ....CRYPTOMONAS | * | 0 |
| CYANOPHYTA (BLUE-GREEN ALGAE) | | |
| .CYANOPHYCEAE | | |
| ..CHROCCOCCALES | | |
| ...CHROCCOCCACEAE | | |
| ....ANACYSTIS | 49000# | 37 |
| ..HORMOGONALES | | |
| ...NOSTOCACEAE | | |
| ....ANABAENA | 11000 | 8 |
| ....ANABAENOPSIS | 1800 | 1 |
| ....CYLINDROSPERMUM | 3900 | 3 |
| ...OSCILLATORIACEAE | | |
| ....LYNGBYA | 27000# | 20 |
| ....OSCILLATORIA | 12000 | 9 |
| ...RIVULARIACEAE | | |
| ....RAPHIDIOPSIS | 20000 | 15 |
| PYRRHOPHYTA (FIRE ALGAE) | | |
| .DINOPHYCEAE | | |
| ..PERIDINIALES | | |
| ...PERIDINIACEAE | | |
| ....PERIDINIUM | * | 0 |

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

TABLE 29.--Phytoplankton analyses of Lake Conroe, October 1977 to August 1978--Continued

303129095360501 Site GC

| | |
|---|---|
| DATE | JUL 13,78 |
| TIME | 1331 |
| TOTAL CELLS/ML | 180000 |
| DIVERSITY: DIVISION | 0.4 |
| .CLASS | 0.4 |
| ..ORDER | 1.3 |
| ...FAMILY | 1.6 |
| ....GENUS | 2.0 |

| ORGANISM | CELLS /ML | PER-CENT |
|---|---|---|
| CHLOROPHYTA (GREEN ALGAE) | | |
| .CHLOROPHYCEAE | | |
| ..CHLOROCOCCALES | | |
| ...MICRACTINIACEAE | | |
| ....MICRACTINIUM | 1000 | 1 |
| ...OOCYSTACEAE | | |
| ....ANKISTRODESMUS | 3100 | 2 |
| ....DICTYOSPHAERIUM | 3400 | 2 |
| ....KIRCHNERIELLA | * | 0 |
| ....SELENASTRUM | * | 0 |
| ....TETRAEDRON | * | 0 |
| ....TREUBARIA | * | 0 |
| ...SCENEDESMACEAE | | |
| ....SCENEDESMUS | * | 0 |
| ..VOLVOCALES | | |
| ...CHLAMYDOMONADACEAE | | |
| ....CHLAMYDOMONAS | * | 0 |
| ..ZYGNEMATALES | | |
| ...DESMIDIACEAE | | |
| ....STAURASTRUM | * | 0 |
| CHRYSOPHYTA | | |
| .BACILLARIOPHYCEAE | | |
| ..PENNALES | | |
| ...ACHNANTHACEAE | | |
| ....ACHNANTHES | * | 0 |
| .XANTHOPHYCEAE | | |
| ..HETEROCOCCALES | | |
| ...CHLOROTHECIACEAE | | |
| ....OPHIOCYTIUM | * | 0 |
| CYANOPHYTA (BLUE-GREEN ALGAE) | | |
| .CYANOPHYCEAE | | |
| ..CHROCCOCCALES | | |
| ...CHROCCOCCACEAE | | |
| ....AGMENELLUM | 2700 | 1 |
| ....ANACYSTIS | 110000# | 58 |
| ..HORMOGONALES | | |
| ...NOSTOCACEAE | | |
| ....ANABAENA | 5600 | 3 |
| ...OSCILLATORIACEAE | | |
| ....LYNGBYA | 38000# | 21 |
| ....OSCILLATORIA | 17000 | 9 |
| ...RIVULARIACEAE | | |
| ....RAPHIDIOPSIS | 3400 | 2 |
| EUGLENOPHYTA (EUGLENOIDS) | | |
| .EUGLENOPHYCEAE | | |
| ..EUGLENALES | | |
| ...EUGLENACEAE | | |
| ....TRACHELOMONAS | * | 0 |

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

# TABLE 30.--Phytoplankton analyses of Lake Conroe, October 1978 to August 1979

## 302127095335501 Site AC

| DATE | FEB 14,79 | JUN 15,79 | AUG 17,79 |
|---|---|---|---|
| TIME | 1501 | 0911 | 0833 |
| TOTAL CELLS/ML | 7600 | 9200 | 74000 |
| DIVERSITY: DIVISION | 0.3 | 0.1 | 0.3 |
| .CLASS | 0.3 | 0.1 | 0.3 |
| ..ORDER | 0.4 | 0.1 | 0.5 |
| ...FAMILY | 0.4 | 0.1 | 1.5 |
| ....GENUS | 0.5 | 0.1 | 1.6 |

| ORGANISM | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT |
|---|---|---|---|---|---|---|
| CHLOROPHYTA (GREEN ALGAE) | | | | | | |
| .CHLOROPHYCEAE | | | | | | |
| ..CHLOROCOCCALES | | | | | | |
| ...COELASTRACEAE | | | | | | |
| ....COELASTRUM | -- | - | -- | - | 420 | 1 |
| ...HYDRODICTYACEAE | | | | | | |
| ....PEDIASTRUM | -- | - | * | 0 | -- | - |
| ...OOCYSTACEAE | | | | | | |
| ....ANKISTRODESMUS | 160 | 2 | -- | - | * | 0 |
| ....DICTYOSPHAERIUM | -- | - | -- | - | 420 | 1 |
| ....KIRCHNERIELLA | -- | - | * | 0 | -- | - |
| ....OOCYSTIS | 130 | 2 | -- | - | -- | - |
| ....SELENASTRUM | -- | - | -- | - | * | 0 |
| ....TETRAEDRON | -- | - | -- | - | * | 0 |
| ....TREUBARIA | -- | - | -- | - | * | 0 |
| ...SCENEDESMACEAE | | | | | | |
| ....SCENEDESMUS | 65 | 1 | -- | - | 520 | 1 |
| ..TETRASPORALES | | | | | | |
| ...COCCOMYXACEAE | | | | | | |
| ....ELAKATOTHRIX | -- | - | * | 0 | -- | - |
| ..VOLVOCALES | | | | | | |
| ...CHLAMYDOMONADACEAE | | | | | | |
| ....CHLAMYDOMONAS | -- | - | -- | - | * | 0 |
| ....CHLOROGONIUM | -- | - | * | 0 | -- | - |
| ...VOLVOCACEAE | | | | | | |
| ....PANDORINA | -- | - | -- | - | 840 | 1 |
| CHRYSOPHYTA | | | | | | |
| .BACILLARIOPHYCEAE | | | | | | |
| ..CENTRALES | | | | | | |
| ...COSCINODISCACEAE | | | | | | |
| ....CYCLOTELLA | 65 | 1 | -- | - | * | 0 |
| ....MELOSIRA | 7000# | 93 | -- | - | * | 0 |
| ..PENNALES | | | | | | |
| ...FRAGILARIACEAE | | | | | | |
| ....ASTERIONELLA | 65 | 1 | -- | - | -- | - |
| ...NAVICULACEAE | | | | | | |
| ....NAVICULA | * | 0 | -- | - | -- | - |
| ...NITZSCHIACEAE | | | | | | |
| ....NITZSCHIA | -- | - | -- | - | * | 0 |
| CRYPTOPHYTA (CRYPTOMONADS) | | | | | | |
| .CRYPTOPHYCEAE | | | | | | |
| ..CRYPTOMONADALES | | | | | | |
| ...CRYPTOMONADACEAE | | | | | | |
| ....CRYPTOMONAS | -- | - | -- | - | * | 0 |
| CYANOPHYTA (BLUE-GREEN ALGAE) | | | | | | |
| .CYANOPHYCEAE | | | | | | |
| ..CHROOCOCCALES | | | | | | |
| ...CHROOCOCCACEAE | | | | | | |
| ....AGMENELLUM | -- | - | -- | - | * | 0 |
| ....ANACYSTIS | -- | - | -- | - | 1900 | 3 |
| ..HORMOGONALES | | | | | | |
| ...NOSTOCACEAE | | | | | | |
| ....ANABAENA | -- | - | 9100# | 99 | 520 | 1 |
| ...OSCILLATORIACEAE | | | | | | |
| ....OSCILLATORIA | -- | - | -- | - | 30000# | 41 |
| ...RIVULARIACEAE | | | | | | |
| ....RAPHIDIOPSIS | -- | - | -- | - | 38000# | 51 |
| PYRRHOPHYTA (FIRE ALGAE) | | | | | | |
| .DINOPHYCEAE | | | | | | |
| ..PERIDINIALES | | | | | | |
| ...GLENODINIACEAE | | | | | | |
| ....GLENODINIUM | -- | - | -- | - | * | 0 |

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

TABLE 30.--Phytoplankton analyses of Lake Conroe, October 1978 to August 1979--Continued

303129095360501 Site GC

| DATE | FEB 14,79 | JUN 15,79 | AUG 17,79 |
|---|---|---|---|
| TIME | 1756 | 1156 | 1131 |
| TOTAL CELLS/ML | 2100 | 15000 | 120000 |
| DIVERSITY: DIVISION | 1.3 | 1.6 | 0.2 |
| .CLASS | 1.3 | 1.6 | 0.2 |
| ..ORDER | 2.0 | 2.1 | 0.5 |
| ...FAMILY | 2.6 | 3.0 | 1.8 |
| ....GENUS | 3.2 | 3.3 | 2.1 |

| ORGANISM | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT |
|---|---|---|---|---|---|---|
| CHLOROPHYTA (GREEN ALGAE) | | | | | | |
| .CHLOROPHYCEAE | | | | | | |
| ..CHLOROCOCCALES | | | | | | |
| ...COELASTRACEAE | | | | | | |
| ....COELASTRUM | 38 | 2 | 590 | 4 | -- | - |
| ...HYDRODICTYACEAE | | | | | | |
| ....PEDIASTRUM | -- | - | 290 | 2 | -- | - |
| ...MICRACTINIACEAE | | | | | | |
| ....GOLENKINIA | -- | - | 150 | 1 | * | 0 |
| ...OOCYSTACEAE | | | | | | |
| ....ANKISTRODESMUS | 170 | 8 | 330 | 2 | -- | - |
| ....DICTYOSPHAERIUM | -- | - | 440 | 3 | -- | - |
| ....KIRCHNERIELLA | -- | - | 180 | 1 | -- | - |
| ....OOCYSTIS | -- | - | -- | - | * | 0 |
| ....SELENASTRUM | -- | - | * | 0 | -- | - |
| ....TETRAEDRON | * | 0 | * | 0 | -- | - |
| ....TREUBARIA | -- | - | * | 0 | * | 0 |
| ...SCENEDESMACEAE | | | | | | |
| ....SCENEDESMUS | 75 | 4 | 590 | 4 | 880 | 1 |
| ..VOLVOCALES | | | | | | |
| ...CHLAMYDOMONADACEAE | | | | | | |
| ....CARTERIA | -- | - | -- | - | * | 0 |
| ....CHLAMYDOMONAS | -- | - | 950 | 6 | * | 0 |
| ...VOLVOCACEAE | | | | | | |
| ....GONIUM | -- | - | 590 | 4 | -- | - |
| ....PANDORINA | -- | - | 590 | 4 | -- | - |
| CHRYSOPHYTA | | | | | | |
| .BACILLARIOPHYCEAE | | | | | | |
| ..CENTRALES | | | | | | |
| ...COSCINODISCACEAE | | | | | | |
| ....CYCLOTELLA | 260 | 13 | 620 | 4 | * | 0 |
| ....MELOSIRA | 790# | 38 | 1100 | 7 | * | 0 |
| ..PENNALES | | | | | | |
| ...ACHNANTHACEAE | | | | | | |
| ....COCCONEIS | 120 | 6 | -- | - | -- | - |
| ...CYMBELLACEAE | | | | | | |
| ....CYMBELLA | * | 0 | -- | - | -- | - |
| ....EPITHEMIA | * | 0 | -- | - | -- | - |
| ...FRAGILARIACEAE | | | | | | |
| ....FRAGILARIA | 85 | 4 | -- | - | -- | - |
| ....SYNEDRA | 28 | 1 | -- | - | -- | - |
| ...NAVICULACEAE | | | | | | |
| ....NAVICULA | 94 | 4 | -- | - | -- | - |
| ...NITZSCHIACEAE | | | | | | |
| ....NITZSCHIA | 75 | 4 | -- | - | -- | - |
| CRYPTOPHYTA (CRYPTOMONADS) | | | | | | |
| .CRYPTOPHYCEAE | | | | | | |
| ..CRYPTOMONADALES | | | | | | |
| ...CRYPTOCHRYSIDACEAE | | | | | | |
| ....CHROOMONAS | -- | - | * | 0 | -- | - |
| ...CRYPTOMONADACEAE | | | | | | |
| ....CRYPTOMONAS | -- | - | * | 0 | -- | - |
| CYANOPHYTA (BLUE-GREEN ALGAE) | | | | | | |
| .CYANOPHYCEAE | | | | | | |
| ..CHROOCOCCALES | | | | | | |
| ...CHROOCOCCACEAE | | | | | | |
| ....AGMENELLUM | 75 | 4 | -- | - | 4000 | 3 |
| ....ANACYSTIS | 110 | 5 | 440 | 3 | 2300 | 2 |
| ..HORMOGONALES | | | | | | |
| ...NOSTOCACEAE | | | | | | |
| ....ANABAENA | -- | - | 5900# | 38 | -- | - |
| ....ANABAENOPSIS | -- | - | -- | - | 14000 | 12 |
| ...OSCILLATORIACEAE | | | | | | |
| ....LYNGBYA | -- | - | -- | - | 8800 | 7 |
| ....OSCILLATORIA | 94 | 4 | 1800 | 12 | 34000# | 27 |
| ...RIVULARIACEAE | | | | | | |
| ....RAPHIDIOPSIS | -- | - | -- | - | 58000# | 47 |

## TABLE 30.--Phytoplankton analyses of Lake Conroe, October 1978 to August 1979--Continued

### 303129095360501 Site GC

| DATE | FEB 14,79 | | JUN 15,79 | | AUG 17,79 | |
|---|---|---|---|---|---|---|
| TIME | 1756 | | 1156 | | 1131 | |
| ORGANISM | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT |
| EUGLENOPHYTA (EUGLENOIDS) | | | | | | |
| .EUGLENOPHYCEAE | | | | | | |
| ..EUGLENALES | | | | | | |
| ...EUGLENACEAE | | | | | | |
| ....EUGLENA | -- | - | * | 0 | * | 0 |
| ....TRACHELOMONAS | 47 | 2 | 330 | 2 | * | 0 |
| PYRRHOPHYTA (FIRE ALGAE) | | | | | | |
| .DINOPHYCEAE | | | | | | |
| ..GYMNODINIALES | | | | | | |
| ...GYMNODINIACEAE | | | | | | |
| ....GYMNODINIUM | -- | - | * | 0 | -- | - |
| ..PERIDINIALES | | | | | | |
| ...GLENODINIACEAE | | | | | | |
| ....GLENODINIUM | -- | - | -- | - | * | 0 |
| ...PERIDINIACEAE | | | | | | |
| ....PERIDINIUM | -- | - | 110 | 1 | -- | - |

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

# TABLE 31.--Phytoplankton analyses of Lake Conroe, October 1979 to August 1980

## 302127095335501 Site AC

| | JAN 29,80 | | MAY 22,80 | | SEP 11,80 | |
|---|---|---|---|---|---|---|
| DATE | | | | | | |
| TIME | 1136 | | 1001 | | 1027 | |
| TOTAL CELLS/ML | 2400 | | 16000 | | 110000 | |
| DIVERSITY: DIVISION | 1.3 | | 1.1 | | 0.2 | |
| .CLASS | 1.3 | | 1.1 | | 0.2 | |
| ..ORDER | 1.4 | | 1.9 | | 0.8 | |
| ...FAMILY | 1.8 | | 2.2 | | 1.8 | |
| ....GENUS | 2.6 | | 2.8 | | 2.3 | |
| ORGANISM | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT |
| CHLOROPHYTA (GREEN ALGAE) | | | | | | |
| .CHLOROPHYCEAE | | | | | | |
| ..CHLOROCOCCALES | | | | | | |
| ...MICRACTINIACEAE | | | | | | |
| ....GOLENKINIA | 40 | 2 | -- | - | -- | - |
| ....MICRACTINIUM | 120 | 5 | -- | - | -- | - |
| ...OOCYSTACEAE | | | | | | |
| ....ANKISTRODESMUS | 120 | 5 | 690 | 4 | * | 0 |
| ....CHLORELLA | 90 | 4 | -- | - | -- | - |
| ....CHODATELLA | * | 0 | * | 0 | -- | - |
| ....DICTYOSPHAERIUM | -- | - | 540 | 3 | * | 0 |
| ....KIRCHNERIELLA | -- | - | 250 | 2 | -- | - |
| ....OOCYSTIS | 50 | 2 | * | 0 | -- | - |
| ....TETRAEDRON | 90 | 4 | -- | - | * | 0 |
| ....TREUBARIA | -- | - | * | 0 | * | 0 |
| ...SCENEDESMACEAE | | | | | | |
| ....CRUCIGENIA | 40 | 2 | -- | - | -- | - |
| ....SCENEDESMUS | 70 | 3 | 1400 | 9 | 650 | 1 |
| ..TETRASPORALES | | | | | | |
| ...COCCOMYXACEAE | | | | | | |
| ....ELAKATOTHRIX | -- | - | 140 | 1 | -- | - |
| ..VOLVOCALES | | | | | | |
| ...CHLAMYDOMONADACEAE | | | | | | |
| ....CARTERIA | -- | - | * | 0 | -- | - |
| ....CHLAMYDOMONAS | -- | - | 180 | 1 | -- | - |
| ...VOLVOCACEAE | | | | | | |
| ....PANDORINA | -- | - | -- | - | 1300 | 1 |
| ..ZYGNEMATALES | | | | | | |
| ...DESMIDIACEAE | | | | | | |
| ....STAURASTRUM | -- | - | -- | - | * | 0 |
| CHRYSOPHYTA | | | | | | |
| .BACILLARIOPHYCEAE | | | | | | |
| ..CENTRALES | | | | | | |
| ...COSCINODISCACEAE | | | | | | |
| ....CYCLOTELLA | 180 | 8 | 510 | 3 | -- | - |
| ....MELOSIRA | 1200# | 51 | 360 | 2 | -- | - |
| ..PENNALES | | | | | | |
| ...ACHNANTHACEAE | | | | | | |
| ....ACHNANTHES | -- | - | * | 0 | -- | - |
| ...FRAGILARIACEAE | | | | | | |
| ....SYNEDRA | 30 | 1 | -- | - | * | 0 |
| ...NITZSCHIACEAE | | | | | | |
| ....NITZSCHIA | * | 0 | -- | - | -- | - |
| CRYPTOPHYTA (CRYPTOMONADS) | | | | | | |
| .CRYPTOPHYCEAE | | | | | | |
| ..CRYPTOMONADALES | | | | | | |
| ...CRYPTOCHRYSIDACEAE | | | | | | |
| ....CHROOMONAS | -- | - | * | 0 | -- | - |
| ...CRYPTOMONADACEAE | | | | | | |
| ....CRYPTOMONAS | -- | - | -- | - | * | 0 |
| CYANOPHYTA (BLUE-GREEN ALGAE) | | | | | | |
| .CYANOPHYCEAE | | | | | | |
| ..CHROOCOCCALES | | | | | | |
| ...CHROOCOCCACEAE | | | | | | |
| ....AGMENELLUM | -- | - | -- | - | 5500 | 5 |
| ....ANACYSTIS | 300 | 13 | 6900# | 43 | 8900 | 8 |
| ....COCCOCHLORIS | -- | - | 140 | 1 | -- | - |
| ..HORMOGONALES | | | | | | |
| ...NOSTOCACEAE | | | | | | |
| ....ANABAENA | -- | - | 2800# | 18 | -- | - |
| ....ANABAENOPSIS | -- | - | -- | - | 49000# | 45 |
| ....APHANIZOMENON | -- | - | 1400 | 9 | -- | - |
| ...OSCILLATORIACEAE | | | | | | |
| ....LYNGBYA | -- | - | -- | - | 7700 | 7 |
| ....OSCILLATORIA | -- | - | 400 | 2 | 28000# | 26 |
| ....SPIRULINA | -- | - | -- | - | 1800 | 2 |
| ...RIVULARIACEAE | | | | | | |
| ....RAPHIDIOPSIS | -- | - | -- | - | 3400 | 3 |
| EUGLENOPHYTA (EUGLENOIDS) | | | | | | |
| .EUGLENOPHYCEAE | | | | | | |
| ..EUGLENALES | | | | | | |
| ...EUGLENACEAE | | | | | | |
| ....TRACHELOMONAS | -- | - | -- | - | * | 0 |

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

# TABLE 31.--Phytoplankton analyses of Lake Conroe, October 1979 to August 1980--Continued

## 303129095360501 Site GC

| DATE | JAN 29,80 | | MAY 22,80 | | SEP 11,80 | |
|---|---|---|---|---|---|---|
| TIME | 1431 | | 1356 | | 1251 | |
| TOTAL CELLS/ML | 8800 | | 3000 | | 200000 | |
| DIVERSITY: DIVISION | 1.1 | | 1.3 | | 0.3 | |
| .CLASS | 1.1 | | 1.3 | | 0.3 | |
| ..ORDER | 1.2 | | 1.8 | | 1.1 | |
| ...FAMILY | 1.2 | | 2.2 | | 1.6 | |
| ....GENUS | 1.5 | | 2.8 | | 2.3 | |
| ORGANISM | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT |
| CHLOROPHYTA (GREEN ALGAE) | | | | | | |
| .CHLOROPHYCEAE | | | | | | |
| ..CHLOROCOCCALES | | | | | | |
| ...MICRACTINIACEAE | | | | | | |
| ....MICRACTINIUM | -- | - | 27 | 1 | -- | - |
| ...OOCYSTACEAE | | | | | | |
| ....ANKISTRODESMUS | 280 | 3 | 110 | 4 | * | 0 |
| ....CHODATELLA | -- | - | -- | - | * | 0 |
| ....DICTYOSPHAERIUM | -- | - | 230 | 8 | * | 0 |
| ....KIRCHNERIELLA | 100 | 1 | 190 | 6 | 1000 | 1 |
| ....OOCYSTIS | 89 | 1 | 140 | 5 | -- | - |
| ....SELENASTRUM | -- | - | -- | - | * | 0 |
| ....TETRAEDRON | -- | - | -- | - | * | 0 |
| ....WESTELLA | -- | - | -- | - | * | 0 |
| ...SCENEDESMACEAE | | | | | | |
| ....CRUCIGENIA | -- | - | 55 | 2 | -- | - |
| ....SCENEDESMUS | * | 0 | 150 | 5 | 2400 | 1 |
| ....TETRASTRUM | -- | - | 110 | 4 | -- | - |
| ..VOLVOCALES | | | | | | |
| ...CHLAMYDOMONADACEAE | | | | | | |
| ....CHLAMYDOMONAS | -- | - | 69 | 2 | * | 0 |
| ..ZYGNEMATALES | | | | | | |
| ...DESMIDIACEAE | | | | | | |
| ....STAURASTRUM | -- | - | -- | - | * | 0 |
| CHRYSOPHYTA | | | | | | |
| .BACILLARIOPHYCEAE | | | | | | |
| ..CENTRALES | | | | | | |
| ...COSCINODISCACEAE | | | | | | |
| ....CYCLOTELLA | 360 | 4 | 140 | 5 | * | 0 |
| ....MELOSIRA | 1900# | 22 | -- | - | -- | - |
| ....STEPHANODISCUS | -- | - | -- | - | * | 0 |
| ..PENNALES | | | | | | |
| ...ACHNANTHACEAE | | | | | | |
| ....COCCONEIS | -- | - | 41 | 1 | -- | - |
| ...GOMPHONEMATACEAE | | | | | | |
| ....GOMPHONEMA | * | 0 | -- | - | -- | - |
| ...NAVICULACEAE | | | | | | |
| ....NAVICULA | * | 0 | -- | - | -- | - |
| ...NITZSCHIACEAE | | | | | | |
| ....NITZSCHIA | 59 | 1 | -- | - | * | 0 |
| CRYPTOPHYTA (CRYPTOMONADS) | | | | | | |
| .CRYPTOPHYCEAE | | | | | | |
| ..CRYPTOMONADALES | | | | | | |
| ...CRYPTOMONADACEAE | | | | | | |
| ....CRYPTOMONAS | -- | - | -- | - | * | 0 |
| CYANOPHYTA (BLUE-GREEN ALGAE) | | | | | | |
| .CYANOPHYCEAE | | | | | | |
| ..CHROOCOCCALES | | | | | | |
| ...CHROOCOCCACEAE | | | | | | |
| ....AGMENELLUM | -- | - | -- | - | 8800 | 4 |
| ....ANACYSTIS | 5900# | 67 | 1500# | 49 | 36000# | 18 |
| ..HORMOGONALES | | | | | | |
| ...NOSTOCACEAE | | | | | | |
| ....ANABAENA | -- | - | 210 | 7 | 3000 | 2 |
| ....ANABAENOPSIS | -- | - | -- | - | 26000 | 13 |
| ...OSCILLATORIACEAE | | | | | | |
| ....LYNGBYA | -- | - | -- | - | 97000# | 48 |
| ....OSCILLATORIA | -- | - | -- | - | 22000 | 11 |
| EUGLENOPHYTA (EUGLENOIDS) | | | | | | |
| .EUGLENOPHYCEAE | | | | | | |
| ..EUGLENALES | | | | | | |
| ...EUGLENACEAE | | | | | | |
| ....TRACHELOMONAS | -- | - | 41 | 1 | -- | - |
| PYRRHOPHYTA (FIRE ALGAE) | | | | | | |
| .DINOPHYCEAE | | | | | | |
| ..PERIDINIALES | | | | | | |
| ...GLENODINIACEAE | | | | | | |
| ....GLENODINIUM | * | 0 | -- | - | * | 0 |

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

# TABLE 32.--Phytoplankton analyses of Lake Conroe, October 1980 to August 1981

## 302127095335501 Site AC

| | JAN 15,81 | | MAY 21,81 | | AUG 20,81 | |
|---|---|---|---|---|---|---|
| DATE | | | | | | |
| TIME | 1031 | | 1236 | | 1106 | |
| TOTAL CELLS/ML | 2700 | | 9200 | | 65000 | |
| DIVERSITY: DIVISION | 1.3 | | 0.6 | | 0.4 | |
| .CLASS | 1.3 | | 0.6 | | 0.4 | |
| ..ORDER | 1.4 | | 1.0 | | 1.9 | |
| ...FAMILY | 1.6 | | 1.1 | | 1.9 | |
| ....GENUS | 1.7 | | 1.2 | | 2.2 | |
| ORGANISM | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT |
| BACILLARIOPHYTA (DIATOMS) | | | | | | |
| .BACILLARIOPHYCEAE | | | | | | |
| ..ACHNANTHALES | | | | | | |
| ...ACHNANTHACEAE | | | | | | |
| ....ACHNANTHES | -- | - | -- | - | * | 0 |
| ....COCCONEIS | -- | - | * | 0 | -- | - |
| ..BACILLARIALES | | | | | | |
| ...NITZSCHIACEAE | | | | | | |
| ....NITZSCHIA | * | 0 | 64 | 1 | -- | - |
| ..EUPODISCALES | | | | | | |
| ...COSCINODISCACEAE | | | | | | |
| ....CYCLOTELLA | 52 | 2 | -- | - | -- | - |
| ....MELOSIRA | 1700# | 65 | -- | - | -- | - |
| ..FRAGILARIALES | | | | | | |
| ...FRAGILARIACEAE | | | | | | |
| ....FRAGILARIA | -- | - | -- | - | * | 0 |
| ....SYNEDRA | -- | - | * | 0 | -- | - |
| ..NAVICULALES | | | | | | |
| ...GOMPHONEMACEAE | | | | | | |
| ....GOMPHONEMA | -- | - | * | 0 | -- | - |
| ...NAVICULACEAE | | | | | | |
| ....NAVICULA | -- | - | * | 0 | -- | - |
| CHLOROPHYTA (GREEN ALGAE) | | | | | | |
| .CHLOROPHYCEAE | | | | | | |
| ..CHLOROCOCCALES | | | | | | |
| ...CHLOROCOCCACEAE | | | | | | |
| ....SCHROEDERIA | -- | - | * | 0 | -- | - |
| ....TETRAEDRON | -- | - | * | 0 | -- | - |
| ...DICTYOSPHAERIACEAE | | | | | | |
| ....DICTYOSPHAERIUM | 52 | 2 | -- | - | -- | - |
| ...MICRACTINIACEAE | | | | | | |
| ....MICRACTINIUM | 64 | 2 | * | 0 | -- | - |
| ...OOCYSTACEAE | | | | | | |
| ....ANKISTRODESMUS | 26 | 1 | 120 | 1 | 2900 | 4 |
| ....FRANCEIA | -- | - | -- | - | * | 0 |
| ....SELENASTRUM | -- | - | * | 0 | -- | - |
| ...SCENEDESMACEAE | | | | | | |
| ....CRUCIGENIA | -- | - | 100 | 1 | -- | - |
| ....SCENEDESMUS | 180 | 7 | 280 | 3 | -- | - |
| ..VOLVOCALES | | | | | | |
| ...CHLAMYDOMONADACEAE | | | | | | |
| ....CHLAMYDOMONAS | 26 | 1 | 180 | 2 | * | 0 |
| ..ZYGNEMATALES | | | | | | |
| ...DESMIDIACEAE | | | | | | |
| ....COSMARIUM | -- | - | * | 0 | -- | - |
| ....EUASTRUM | -- | - | * | 0 | -- | - |
| ...ZYGNEMATACEAE | | | | | | |
| ....MOUGEOTIA | -- | - | -- | - | 750 | 1 |
| CYANOPHYTA (BLUE-GREEN ALGAE) | | | | | | |
| .CYANOPHYCEAE | | | | | | |
| ..CHROOCOCCALES | | | | | | |
| ...CHROOCOCCACEAE | | | | | | |
| ....ANACYSTIS | 520# | 19 | 390 | 4 | 15000# | 23 |
| ..NOSTOCALES | | | | | | |
| ...NOSTOCACEAE | | | | | | |
| ....ANABAENA | -- | - | -- | - | 1700 | 3 |
| ....APHANIZOMENON | -- | - | 180 | 2 | 4500 | 7 |
| ....CYLINDROSPERMUM | -- | - | -- | - | 8400 | 13 |
| ..OSCILLATORIALES | | | | | | |
| ...OSCILLATORIACEAE | | | | | | |
| ....LYNGBYA | -- | - | -- | - | 31000# | 47 |
| ....OSCILLATORIA | -- | - | 7700# | 84 | -- | - |
| EUGLENOPHYTA (EUGLENOIDS) | | | | | | |
| .EUGLENOPHYCEAE | | | | | | |
| ..EUGLENALES | | | | | | |
| ...EUGLENACEAE | | | | | | |
| ....EUGLENA | -- | - | * | 0 | * | 0 |
| ....TRACHELOMONAS | * | 0 | -- | - | -- | - |
| PYRRHOPHYTA (FIRE ALGAE) | | | | | | |
| .DINOPHYCEAE | | | | | | |
| ..DINOKONTAE | | | | | | |
| ...GLENODINIACEAE | | | | | | |
| ....GLENODINIUM | -- | - | * | 0 | -- | - |

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

# TABLE 32.--Phytoplankton analyses of Lake Conroe, October 1980 to August 1981--Continued

## 303129095360501 Site GC

| DATE | JAN 15,81 | | MAY 21,81 | | AUG 20,81 | |
|---|---|---|---|---|---|---|
| TIME | 1317 | | 1646 | | 1505 | |
| TOTAL CELLS/ML | 2700 | | 21000 | | 130000 | |
| DIVERSITY: DIVISION | 0.3 | | 0.8 | | 0.5 | |
| .CLASS | 0.3 | | 0.8 | | 0.5 | |
| ..ORDER | 0.4 | | 1.6 | | 1.4 | |
| ...FAMILY | 0.4 | | 1.8 | | 1.5 | |
| ....GENUS | 0.6 | | 2.5 | | 2.1 | |
| ORGANISM | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT | CELLS /ML | PER-CENT |
| BACILLARIOPHYTA (DIATOMS) | | | | | | |
| .BACILLARIOPHYCEAE | | | | | | |
| ..BACILLARIALES | | | | | | |
| ...NITZSCHIACEAE | | | | | | |
| ....NITZSCHIA | * | 0 | * | 0 | -- | - |
| ..EUPODISCALES | | | | | | |
| ...COSCINODISCACEAE | | | | | | |
| ....CYCLOTELLA | 64 | 2 | 290 | 1 | * | 0 |
| ....MELOSIRA | 2500# | 93 | 390 | 2 | -- | - |
| ..FRAGILARIALES | | | | | | |
| ...FRAGILARIACEAE | | | | | | |
| ....SYNEDRA | * | 0 | * | 0 | -- | - |
| CHLOROPHYTA (GREEN ALGAE) | | | | | | |
| .CHLOROPHYCEAE | | | | | | |
| ..CHLOROCOCCALES | | | | | | |
| ...CHLOROCOCCACEAE | | | | | | |
| ....SCHROEDERIA | -- | - | * | 0 | -- | - |
| ....TETRAEDRON | 26 | 1 | * | 0 | -- | - |
| ...DICTYOSPHAERIACEAE | | | | | | |
| ....DICTYOSPHAERIUM | -- | - | 500 | 2 | -- | - |
| ....WESTELLA | -- | - | -- | - | 3500 | 3 |
| ...OOCYSTACEAE | | | | | | |
| ....ANKISTRODESMUS | 39 | 1 | 530 | 3 | 4100 | 3 |
| ....KIRCHNERIELLA | -- | - | 180 | 1 | * | 0 |
| ....OOCYSTIS | -- | - | 140 | 1 | -- | - |
| ...SCENEDESMACEAE | | | | | | |
| ....COELASTRUM | -- | - | -- | - | 870 | 1 |
| ....CRUCIGENIA | -- | - | 290 | 1 | -- | - |
| ....SCENEDESMUS | -- | - | * | 0 | 1700 | 1 |
| ..VOLVOCALES | | | | | | |
| ...CHLAMYDOMONADACEAE | | | | | | |
| ....CHLAMYDOMONAS | * | 0 | 430 | 2 | -- | - |
| ..ZYGNEMATALES | | | | | | |
| ...DESMIDIACEAE | | | | | | |
| ....COSMARIUM | -- | - | -- | - | * | 0 |
| ....SPONDYLOSIUM | -- | - | -- | - | * | 0 |
| CRYPTOPHYTA (CRYPTOMONADS) | | | | | | |
| .CRYPTOPHYCEAE | | | | | | |
| ..CRYPTOMONADALES | | | | | | |
| ...CRYPTOMONADACEAE | | | | | | |
| ....CRYPTOMONAS | * | 0 | -- | - | -- | - |
| CYANOPHYTA (BLUE-GREEN ALGAE) | | | | | | |
| .CYANOPHYCEAE | | | | | | |
| ..CHROOCOCCALES | | | | | | |
| ...CHROOCOCCACEAE | | | | | | |
| ....AGMENELLUM | -- | - | 4600# | 22 | 22000# | 17 |
| ....ANACYSTIS | * | 0 | 9800# | 48 | 66000# | 51 |
| ..NOSTOCALES | | | | | | |
| ...NOSTOCACEAE | | | | | | |
| ....ANABAENA | -- | - | 2100 | 10 | 5000 | 4 |
| ..OSCILLATORIALES | | | | | | |
| ...OSCILLATORIACEAE | | | | | | |
| ....LYNGBYA | -- | - | -- | - | 26000# | 20 |
| ....OSCILLATORIA | -- | - | 610 | 3 | -- | - |
| ....PHORMIDIUM | -- | - | 290 | 1 | -- | - |
| EUGLENOPHYTA (EUGLENOIDS) | | | | | | |
| .EUGLENOPHYCEAE | | | | | | |
| ..EUGLENALES | | | | | | |
| ...EUGLENACEAE | | | | | | |
| ....TRACHELOMONAS | -- | - | 180 | 1 | -- | - |
| PYRRHOPHYTA (FIRE ALGAE) | | | | | | |
| .DINOPHYCEAE | | | | | | |
| ..DINOKONTAE | | | | | | |
| ...PERIDINIACEAE | | | | | | |
| ....PERIDINIUM | -- | - | 110 | 1 | -- | - |

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%



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