Water-Quality Data for Selected North Carolina Streams and Reservoirs in the Triangle Area Water Supply Monitoring Project, 1988-92

By Ronald G. Garrett, John E. Taylor, and Terry L. Middleton

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Multiply	By	To obtain
	Length	
inch (in.)	25.4	millimeter
foot (ft)	0.3048	meter
	Volume	
ounce, fluid (fl. oz)	0.2957	liter
gallon (gal)	3.785	liter
	Flow	
cubic foot per second (ft^3/s)	0.02832	cubic meter per second
	Specific Conductance	
micromho per centimeter at 25 degrees Celsius (µmho/cm at 25 °C)	1.000	microsiemen per centimeter at 25 degrees Celsius

Water temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$°F = 1.8\ °C + 32$$

Air temperature in degrees Fahrenheit (°F) may be converted to degrees Celsius (°C) as follows:

$$°C = 5/9 \times (°F-32)$$

Sea level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Abbreviations and acronyms used in this report in addition to those shown above:

AA	atomic absorption spectrometry
BOD	biochemical oxygen demand
BTM	bottom material
DEHNR	North Carolina Department of Environment, Health, and Natural Resources
DEM	Division of Environmental Management
ft	foot
HPLC	high pressure liquid chromatography
<	less than
L	liter
m	meter
µg/L	microgram per liter
µS/cm at 25 °C	microsiemen per centimeter at 25 degrees Celsius
mi	mile
mg/L	milligram per liter
mL	milliliter
mm	millimeter
NTU	nephelometric turbidity units
TJCOG	Triangle J Council of Governments
USGS	U.S. Geological Survey

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ABSTRACT

The Triangle Area Water Supply Monitoring Project was developed to assess regional water-quality characteristics in drinking-water supplies and to provide a basis for determining trends in water quality for the Research Triangle area, which is one of the fastest growing areas in North Carolina. The study area is in the upper Neuse River Basin and the upper Cape Fear River Basin in the north-central Piedmont Province of the State.

Hydrologic data were collected at 21 reservoir sites and 30 stream sites from October 1988 through September 1992 to define water-quality characteristics. The data collected at these sites include streamflow data and approximately 275 physical properties and chemical characteristics of surface water.

INTRODUCTION

The Triangle Area Water Supply Monitoring Project study area is in the upper Cape Fear and upper Neuse River Basins of the north-central Piedmont Province of North Carolina (fig. 1), which is one of the most rapidly growing areas in the State. Because of this rapid growth, demands on the region's surface-water supplies are continually increasing. There are public concerns that rapidly expanding industrial and municipal development in the Triangle area may adversely affect the quality of existing and future surface-water resources. Because of the extensive reliance on surface waters as the primary source of water supply in the area, local governments, with assistance from the Triangle J Council of Governments (TJCOG), formed the Triangle Area Water Supply Monitoring Project Steering Committee.

The Triangle Area Water Supply Monitoring Project was developed to assess regional water quality and to provide a basis for determining trends in water quality, particularly in the water-supply reservoirs and their tributaries. In October 1988, the U.S. Geological Survey (USGS), in cooperation with the Triangle Water Supply Monitoring Project Steering Committee, and the North Carolina Department of Environment, Health, and Natural Resources (DEHNR), began an investigation to determine water-quality characteristics at seven water-supply reservoirs, including major tributaries to and outflows from each of the reservoirs, and five run-of-the-river water supplies. The project was designed to supplement monitoring activities by DEHNR in the study area and to establish a data base for synthetic organic compounds.

Purpose and Scope

The purpose of this report is to summarize the water-quality data collected in the Triangle Area Water Supply Monitoring Project study area from October 1988 through September 1992. The hydrologic data collected include measurements of streamflow; physical characteristics, such as dissolved-oxygen concentrations, water temperature, pH, suspended-sediment concentrations, and specific conductance; and concentrations of major dissolved constituents, nutrients, chlorophyll *a* and *b*, minor elements, and synthetic organic compounds in water and bottom sediments. The report also summarizes the field and

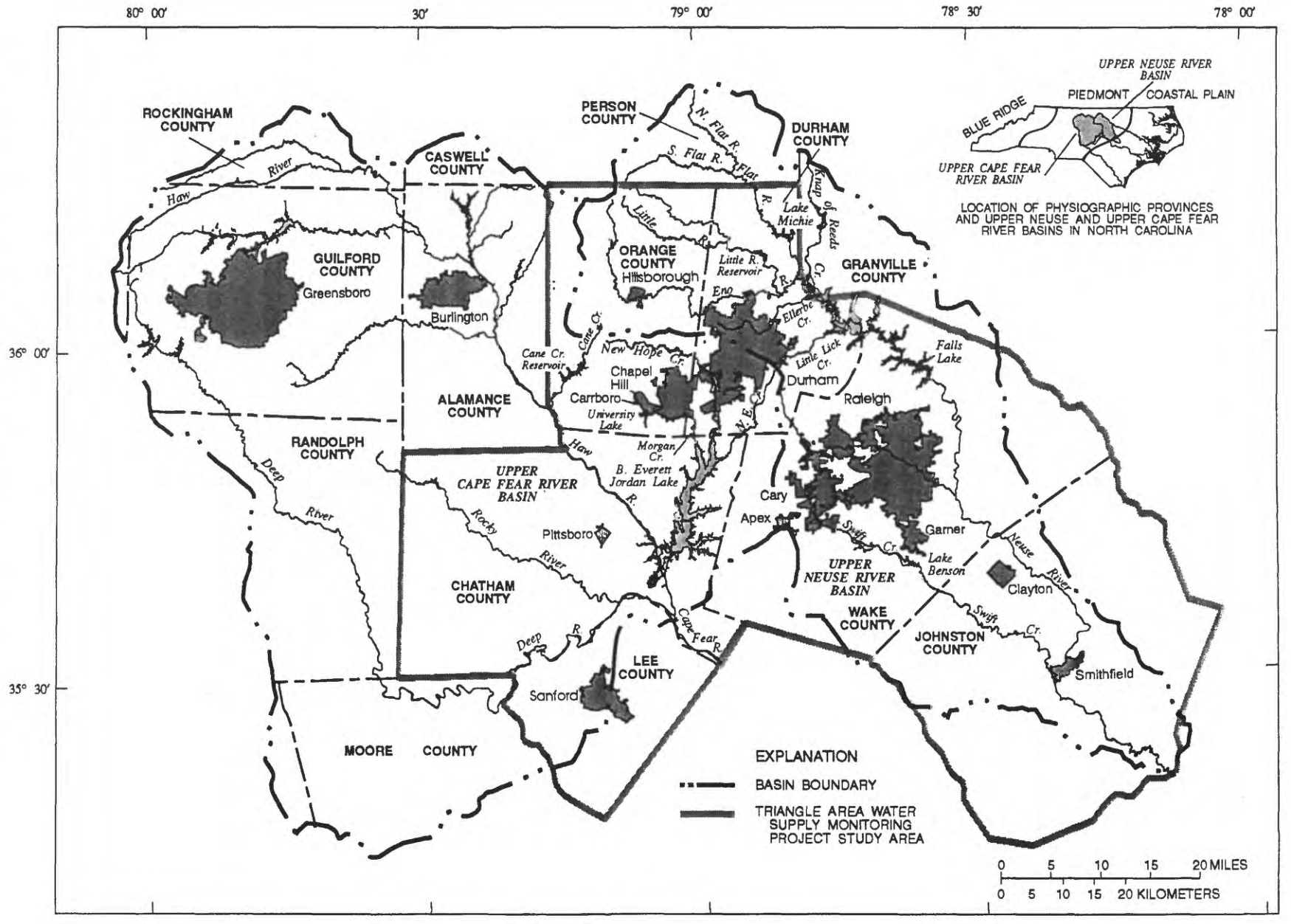


Figure 1.--The Triangle Area Water Supply Monitoring Project study area and drainage area.

laboratory methods used to collect and analyze these data.

Acknowledgments

This ongoing study to investigate water quality in the two river basins is being conducted in cooperation with the Triangle Area Water Supply Monitoring Project Steering Committee, which is composed of the following municipalities, county governments, and water-supply authority.

Town of Apex
Town of Carrboro
Town of Cary
Town of Chapel Hill
Chatham County
City of Durham
Town of Hillsborough
Orange County
Orange Water and Sewer Authority
Town of Pittsboro (1988 through 1991)
City of Raleigh
City of Sanford
Town of Smithfield

The Division of Environmental Management (DEM) of the North Carolina Department of Environment, Health, and Natural Resources (DEHNR) maintains a Surface Water Ambient Monitoring System with approximately 380 sampling locations throughout the State. The Triangle Area Water Supply Monitoring Project gratefully acknowledges the assistance of the Division of Environmental Management in providing water-quality sample collections and data from ambient monitoring sites located within the study area.

Study Area

The drainage area for the Triangle Area Water Supply Monitoring Project is in the upper Cape Fear and upper Neuse River Basins in north-central North Carolina and is in parts of Alamance, Caswell, Chatham, Durham, Granville, Guilford, Johnston, Lee, Moore, Orange, Person, Randolph, Rockingham, and Wake Counties (fig. 1). The drainage area consists of approximately 37 percent and 23 percent of the Cape Fear and Neuse River Basins, respectively.

The study area is in parts of Chatham, Durham, Johnston, Lee, Orange, and Wake Counties (fig. 1) and constitutes the Triangle J Regional Planning Area. The study area consists of approximately 10 percent and 35 percent of the Cape Fear and Neuse River Basins, respectively.

The principal municipalities in the drainage area are the towns of Cary and Chapel Hill, and the cities of Burlington, Durham, Greensboro, and Raleigh. These six municipalities had a combined total population of approximately 666,000 in 1989 (North Carolina Office of State Budget and Management, 1990). Other smaller municipalities in the study area include Apex, Carrboro, Hillsborough, Pittsboro, Sanford, and Smithfield. These municipalities had a combined total population of approximately 57,000 in 1989 (North Carolina Office of State Budget and Management, 1990). Population in the drainage area increased approximately 35 percent between 1980 and 1989.

Forests and agriculture are predominant land uses in the drainage area; approximately 10 percent of the area is urbanized (North Carolina Department of Environment, Health, and Natural Resources, 1985 and 1993). Agriculture, landfills, and urban areas are potential nonpoint sources of pollution in the area. Primary constituents associated with nonpoint-source pollution are sediment, nutrients, pesticides, and other constituents that may be carried into streams by overland runoff. In the urban areas, point-source dischargers include municipal, industrial, and domestic wastewater-treatment plants. Primary constituents associated with point-source pollution are oxygen-demanding wastes and nutrients. Major municipal point-source dischargers in the drainage area are the cities of Burlington, Durham, Greensboro, and Raleigh.

The upper Cape Fear River Basin is one of the most industrialized and populated areas in the State. The basin drains the industrialized areas of Burlington and Greensboro. In 1984 there were 167 dischargers with National Pollutant Discharge Elimination System permits in the basin (North Carolina Department of Natural Resources and Community Development, 1985).

The Haw River subbasin contained 121 discharge sites in 1984. The majority of industries in this subbasin discharge directly into municipal wastewater-treatment plants.

The climate of the study area is characterized by hot, humid summers, mild winters, and long growing

seasons. The mean monthly temperature ranges from about 35 °F in January to about 80 °F in July. Precipitation in the study area averages about 45 inches per year (National Oceanic and Atmospheric Administration, 1988-92).

DATA COLLECTION

In October 1988, a data-collection program was initiated to define water-quality characteristics at 11 reservoir and 20 stream sites in the study area. Data collection included measurements of streamflow; physical characteristics, such as dissolved-oxygen concentrations, water temperature, pH, suspended-sediment concentrations, and specific conductance; and concentrations of major dissolved constituents, nutrients, chlorophyll *a* and *b*, minor elements, and synthetic organic compounds in water and bottom sediments. Data were collected at 51 sites during October 1988 through September 1992 (table 1; figs. 2 and 3), although several sites were either discontinued or activated during that time based on decisions made jointly by USGS personnel and the Triangle Area Water Supply Monitoring Project Steering Committee.

The frequency of data collection at the 51 study sites varied. Generally, the stream sites were sampled monthly, and the reservoir sites were sampled five times a year--in April, June, August, September, and October. Approximately 1,610 water samples and 35 bottom-sediment samples were collected by the USGS and DEHNR during the study period. Depending on the site, as many as 15 major nutrient constituents, 15 minor elements, and approximately 250 synthetic organic compounds were analyzed for each individual sample at the reservoir and stream sites. This section describes the study sites, sampling frequency and methods, and laboratory procedures used to collect and analyze the data collected during the study period. Information about the type of data collected at each of the study sites is presented in table 1.

Study Sites

Hydrologic data were collected during October 1988 through September 1992 at 51 study sites, including 21 reservoir sites and 30 stream sites. Twenty-six of the study sites are located in the upper Neuse River basin (fig. 2), and 25 sites are in the upper Cape Fear River Basin (fig. 3). Study sites in the upper Neuse River Basin are located on the Flat, Eno, Little, and Neuse Rivers, and Knap of Reeds, Ellerbe, Little Lick, and Swift Creeks. The reservoirs in the upper Neuse River Basin that were monitored were Falls Lake, Lake Michie, Little River Reservoir, and Lake Benson. The upper Cape Fear River Basin study sites are located on the Haw, Deep, and Cape Fear Rivers, and Northeast, Morgan, New Hope, Cane, and Reedy Fork Creeks. The reservoirs in the upper Cape Fear River Basin that were monitored were B. Everett Jordan Lake, Cane Creek Reservoir, and University Lake.

Sites 1-17, 18-34, and 45-46 were comprehensive monitoring sites at which samples were collected for nutrients, minor elements, and synthetic organic compounds. Continuous discharge data from sites 17A, 31A, and 32A were used for discharge at sites 17, 31, and 32. Sites 35-44 were bottom-sediment sampling sites only. The bottom sediments were analyzed for synthetic organic compounds. Sites 35-38 are located outside the Triangle Area Water Supply Monitoring Project study area but are within the drainage area of the study area.

In general, the comprehensive stream sites were sampled monthly and analyzed for major dissolved constituents and nutrients. Minor elements were analyzed in samples collected four times a year--in April, June, August, and September, and samples of synthetic organic compounds were collected and analyzed in April, August, and October.

The comprehensive reservoir sites were sampled five times a year--in April, June, August, September, and October. Analyses were performed for major dissolved constituents, nutrients, minor elements, and chlorophyll *a* and *b* during these months. Synthetic organic compound samples were collected and analyzed in April, August, and October.

Hydrologic data were collected at the study sites by either the USGS or DEHNR. Information about which agency provided sample collection and analysis at each of the study sites is presented in table 1.

Sample Collection and Field Analysis

Water-quality samples were collected at each study site and analyzed for a wide range of constituents. To ensure the collection of representative samples at the reservoir sites and the stream sites, standard USGS procedures and standard DEHNR

Table 1.--*Types of data collection at study sites in the Triangle Area Water Supply Monitoring Project drainage area, October 1988 through September 1992*
[Station number is U.S. Geological Survey downstream order number; A, data collected and analyzed by U.S. Geological Survey (USGS); B, data collected and analyzed by North Carolina Department of Environment, Health, and Natural Resources (DEHNR); C, data collected by DEHNR and analyzed by USGS; ---, no data; *, water intake]

Site number (figs. 2 and 3)	Station name and number	Latitude	Longitude	Drainage area (square miles)	Continuous discharge	Physical properties	Major dissolved constituents	Major nutrients	Chlorophyll *a* and *b*	Minor elements	Organics (water)	Organics (bottom sediment)	Suspended sediment
1	Neuse River near Falls 02087183	35°56'25"	78°34'56"	771	A	B	B	B	---	B	C	---	---
*2	Falls Lake above Dam at Falls 02087182	35°56'28"	78°35'02"	---	---	A,B	A,B	A,B	A,B	A,B	A,C	A	---
3	Falls Lake at State Highway 98 near Bayleaf 0208708905	35°58'42"	78°37'59"	---	---	A,B	A,B	A,B	A,B	A,B	A,C	A	---
4	Falls Lake at State Highway 50 near Sandy Plain 0208703650	36°00'54"	78°41'29"	---	---	A,B	A,B	A,B	A,B	A,B	A,C	A	---
5	Falls Lake at Interstate 85 near Redwood 02086920	36°04'14"	78°46'48"	---	---	A,B	A,B	A,B	A,B	A,B	A,C	A	---
6	Little Lick Creek above Secondary Road 1814 near Oak Grove 0208700780	35°59'11"	78°47'58"	10.1	A	A,B	A,B	A,B	---	A,B	A,C	A	A
7	Ellerbe Creek near Gorman 02086849	36°03'33"	78°49'58"	21.9	A[1]	A,B	A,B	A,B	---	A,B	A,C	A	A
8	Eno River near Weaver 02085079	36°04'19"	78°51'47"	148	---[2]	A,B	A,B	A,B	---	A,B	A	A	A
9	Eno River near Durham 02085070	36°04'20"	78°54'30"	141	A	A,B	A,B	B	---	B	C	---	---

[1]Gage discontinued April 1989; rebuilt September 1991.
[2]Discharge values for site 8 from gage at site 9.

Table 1.--*Types of data collection at study sites in the Triangle Area Water Supply Monitoring Project drainage area, October 1988 through September 1992*--Continued
[Station number is U.S. Geological Survey downstream order number; A, data collected and analyzed by U.S. Geological Survey (USGS); B, data collected and analyzed by North Carolina Department of Environment, Health, and Natural Resources (DEHNR); C, data collected by DEHNR and analyzed by USGS; ---, no data; *, water intake]

Site number (figs. 2 and 3)	Station name and number	Latitude	Longitude	Drainage area (square miles)	Continuous discharge	Physical properties	Major dissolved constituents	Major nutrients	Chlorophyll *a* and *b*	Minor elements	Organics (water)	Organics (bottom sediment)	Suspended sediment
10	Knap of Reeds Creek near Butner 02086624	36°07'40"	78°47'55"	43.0	A	B	B	B	---	B	A,C	A	---
11	Little River below Dam near Fairntosh 0208524850 (Discontinued 6/91)	36°06'43"	78°52'08"	97.7	---	A	A	A	---	A	A	---	A
12	Little River at Secondary Road 1461 near Orange Factory 0208521324	36°08'30"	78°55'10"	78.2	A	A,B	A,B	A,B	---	A,B	A,C	A	A
*13	Little River Reservoir at Dam near Bahama 0208524845	36°06'53"	78°52'10"	97.7	---	A	A	A	A	A	A	---	---
14	Flat River at Dam near Bahama 02086500 (Discontinued 6/91)	36°08'55"	78°49'43"	168	A	A	A	A	---	A	A	---	A
15	Flat River at Bahama 02085500	36°10'57"	78°52'44"	149	A	A,B	A,B	A,B	---	A,B	A,C	A	A
*16	Lake Michie at Dam near Bahama 02086490	36°09'02"	78°49'49"	167	---	A	A	A	A	A	A	---	---
17	Morgan Creek near Farrington 02097521	35°51'48"	79°00'35"	45.6	---[3]	B	B	B	---	B	C	---	---
17A	Morgan Creek near Chapel Hill 02097517	35°53'36"	79°01'10"	41.0	A	---	---	---	---	---	---	---	---

[3]Discharge values for site 17 from gage at site 17A.

Table 1.-- *Types of data collection at study sites in the Triangle Area Water Supply Monitoring Project drainage area, October 1988 through September 1992*--Continued
[Station number is U.S. Geological Survey downstream order number; A, data collected and analyzed by U.S. Geological Survey (USGS); B, data collected and analyzed by North Carolina Department of Environment, Health, and Natural Resources (DEHNR); C, data collected by DEHNR and analyzed by USGS; ---, no data; *, water intake]

Site number (figs. 2 and 3)	Station name and number	Latitude	Longitude	Drainage area (square miles)	Continuous discharge	Physical properties	Major dissolved constituents	Major nutrients	Chloro-phyll *a* and *b*	Minor elements	Organics (water)	Organics (bottom sediment)	Suspended sediment
18	New Hope Creek near Blands 02097314	35°53'05"	78°57'58"	75.9	A	A,B	A,B	B	---	A,B	C	---	A
19	Northeast Creek at Secondary Road 1100 near Genlee 0209741955	35°52'20"	78°54'49"	21.1	A	A,B	A,B	A,B	---	A,B	A,C	---	A
20	Jordan Lake at Buoy 9 near Farrington 0209771550 (Discontinued 7/92)	35°46'30"	79°01'38"	---	---	A,B	A,B	A,B	A,B	A,B	A,C	A	---
21	Jordan Lake at Buoy 7 below U.S. Highway 64 near Griffins Crossroads 0209801050 (Discontinued 9/92)	35°43'56"	79°01'30"	---	---	A,B	A	A	A	A	A,C	---	---
*21A	Jordan Lake above U.S. Highway 64 near Wilsonville 0209799150 (Activated 7/91)	35°44'29"	79°01'10"	---	---	A	A	A	A	A	A	---	---
22	Jordan Lake at Bells Landing near Griffins Crossroads 0209801100 (Activated 7/91)	35°43'38"	79°02'35"	---	---	A	A	A	A	A	A	---	---
23	Jordan Lake, Haw River Arm above B. Everett Jordan Dam 0209719700	35°39'39"	79°04'23"	---	---	A,B	A,B	A,B	A,B	A,B	A,C	A	---
*24	Haw River near Bynum 02096960	35°45'48"	79°08'02"	1,275	A	A,B	A,B	A,B	---	A,B	A,C	A	A
25	Haw River below B. Everett Jordan Dam near Moncure 02098198	35°39'11"	79°04'03"	1,689	A	A,B	B	B	---	B	C	A	---

Table 1.--*Types of data collection at study sites in the Triangle Area Water Supply Monitoring Project drainage area, October 1988 through September 1992*--Continued

[Station number is U.S. Geological Survey downstream order number; A, data collected and analyzed by U.S. Geological Survey (USGS); B, data collected and analyzed by North Carolina Department of Environment, Health, and Natural Resources (DEHNR); C, data collected by DEHNR and analyzed by USGS; ---, no data; *, water intake]

Site number (figs. 2 and 3)	Station name and number	Latitude	Longitude	Drainage area (square miles)	Continuous discharge	Physical properties	Major dissolved constituents	Major nutrients	Chloro-phyll *a* and *b*	Minor elements	Organics (water)	Organics (bottom sediment)	Suspended sediment
26	Eno River at Hillsborough 02085000 (Activated 10/89)	36°04'18"	79°05'49"	66.0	A	A	A	A	---	A	A	---	A
*26A	Eno River intakes at Hillsborough 0208491605 (Discontinued 9/89)	36°04'02"	79°07'39"	66.0	---	A	A	A	---	A	A	---	---
27	Cane Creek near Orange Grove 02096846	35°59'13"	79°12'23"	7.5	A	A	A	A	---	A	A	A	A
*28	Cane Creek Reservoir at Dam near White Cross 0209684980 (Activated 4/89)	35°56'59"	79°14'29"	31.4	---	A	A	A	A	A	A	---	---
29	Morgan Creek near White Cross 02097464	35°55'25"	79°06'56"	8.4	A	A	A	A	---	A	A	---	A
*30	University Lake at intakes near Chapel Hill 0209749990	35°53'48"	79°05'33"	30.0	---	A	A	A	A	A	A	---	---
*31	Cape Fear River at State Highway 42 near Brickhaven 0210215985	35°32'54"	79°01'34"	3,160	---[4]	A	A	A	---	A	A	---	A
31A	Deep River at Moncure 02102000	35°37'38"	79°06'58"	1,434	A	---	---	---	---	---	---	---	---
*32	Neuse River at Smithfield 02087570	35°30'46"	78°21'00"	1,206	A[5]	A,B	A,B	A,B	---	A,B	A	---	A

[4]Discharge computed by adding the daily mean discharge values at sites 25 and 31A.

[5]Gage discontinued September 1990. Discharge values from gage at site 32A after September 1990.

Table 1.--*Types of data collection at study sites in the Triangle Area Water Supply Monitoring Project drainage area, October 1988 through September 1992*--Continued
[Station number is U.S. Geological Survey downstream order number; A, data collected and analyzed by U.S. Geological Survey (USGS); B, data collected and analyzed by North Carolina Department of Environment, Health, and Natural Resources (DEHNR); C, data collected by DEHNR and analyzed by USGS; ---, no data; *, water intake]

Site number (figs. 2 and 3)	Station name and number	Latitude	Longitude	Drainage area (square miles)	Continuous discharge	Physical properties	Major dissolved constituents	Major nutrients	Chloro-phyll *a* and *b*	Minor elements	Organics (water)	Organics (bottom sediment)	Suspended sediment
32A	Neuse River near Clayton 02087500	35°38'50"	78°24'22"	1,150	A	---	---	---	---	---	---	---	---
33	Swift Creek near Apex 02087580 (Activated 10/89)	35°43'07"	78°45'09"	21.0	---	A	A	A	---	A	A	---	A
*34	Lake Benson at Dam near Garner 02087701 (Activated 10/89)	35°39'44"	78°36'56"	67.0	---	A	A	A	A	A	A	---	---
35	Haw River at State Highway 150 near Williamsburg 02093450	36°16'02"	79°36'15"	160	---	A	---	---	---	---	---	A	---
36	Reedy Fork Creek at State Highway 61 near Osceola 02095608	36°10'44"	79°34'36"	243	---	A	---	---	---	---	---	A	---
37	Haw River near Graham 0209651800	36°02'56"	79°21'46"	609	---	A	---	---	---	---	---	A	---
38	Haw River near Terrells 02096879	35°53'43"	79°15'31"	1,083	---	A	---	---	---	---	---	A	---
39	University Lake below Price Creek near Carrboro 0209749210	35°53'03"	79°05'47"	---	---	---	---	---	---	---	---	A	---
40	University Lake below Phils Creek 0209748410	35°53'52"	79°06'07"	---	---	---	---	---	---	---	---	A	---
41	University Lake below Secondary Road 1005 near Carrboro 0209746515	35°54'08"	79°05'50"	---	---	---	---	---	---	---	---	A	---

Table 1.--*Types of data collection at study sites in the Triangle Area Water Supply Monitoring Project drainage area, October 1988 through September 1992*--Continued

[Station number is U.S. Geological Survey downstream order number; A, data collected and analyzed by U.S. Geological Survey (USGS); B, data collected and analyzed by North Carolina Department of Environment, Health, and Natural Resources (DEHNR); C, data collected by DEHNR and analyzed by USGS; ---, no data; *, water intake]

Site number (figs. 2 and 3)	Station name and number	Latitude	Longitude	Drainage area (square miles)	Continuous discharge	Physical properties	Major dissolved constituents	Major nutrients	Chlorophyll *a* and *b*	Minor elements	Organics (water)	Organics (bottom sediment)	Suspended sediment
42	Lake Michie at Secondary Road 1616 at Bahama 0208590000	36°10'24"	78°51'44"	---	---	---	---	---	---	---	---	A	---
43	Lake Michie below Holly Grove Campground near Bahama 0208610150	36°09'34"	78°51'08"	---	---	---	---	---	---	---	---	A	---
44	Lake Michie 0.6 mile above Dam near Bahama 0208629180	36°09'30"	78°49'40"	---	---	---	---	---	---	---	---	A	---
45	Jordan Lake at Buoy 12 at Farrington 0209768310 (Activated 8/92)	35°47'55"	79°00'22"	---	---	A	A	---	A	A	---	---	---
*46	Deep River at Carbonton 0210140200 (Activated 3/92)	35°31'10"	79°20'51"	1,026	---	B	B	B	---	B	---	---	---

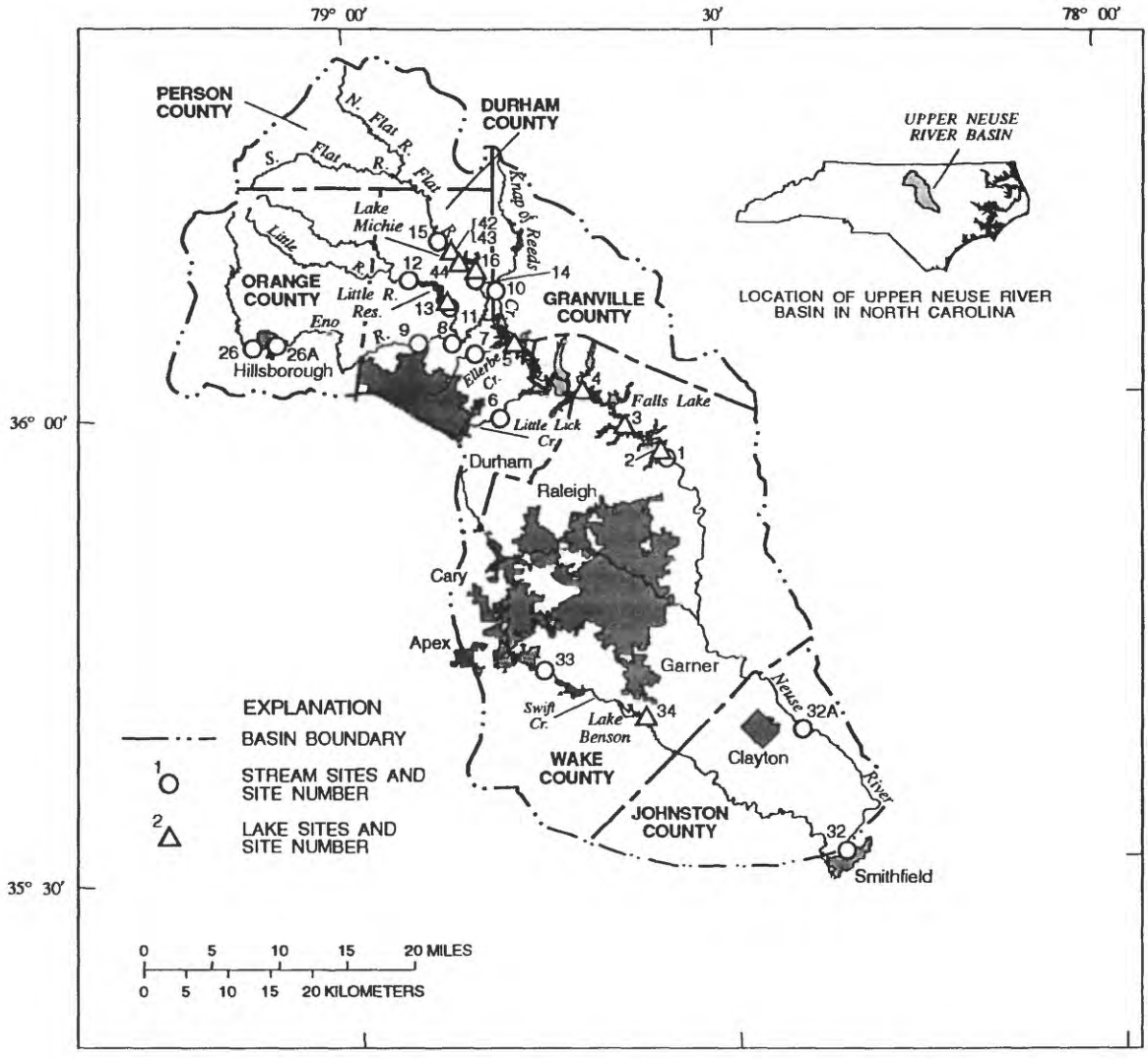
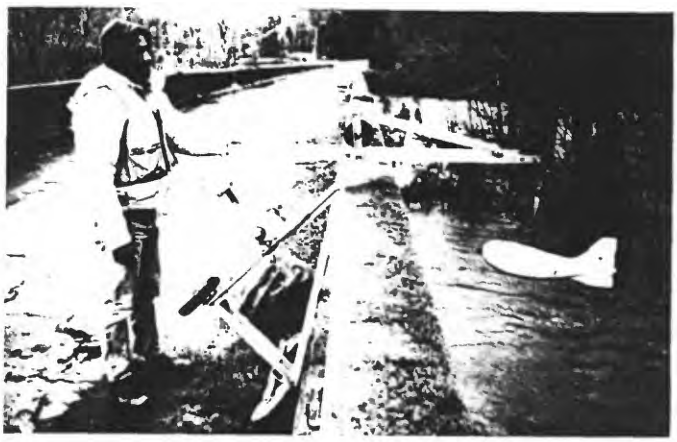


Figure 2.--Study sites in the upper Neuse River Basin.

procedures for the collection and analysis of water-quality data were followed. Information concerning sample-collection procedures, field analysis procedures, and quality-assurance procedures for samples collected by the USGS and DEHNR are described in the following sections.

U.S. Geological Survey Procedures for Sample Collection and Analysis

Stream samples collected by the USGS for inorganic analysis were collected using the depth-integrated, equal-width increment method; composited in a polycarbonate churn splitter; and processed and preserved as described by Edwards and Glysson (1988), Ward and Harr (1990), and as listed in table 2



Hydrologic technician collecting water-quality samples with a trace metal sediment sampler using the depth-integrated, equal-width increment method, site 24, Haw River near Bynum.

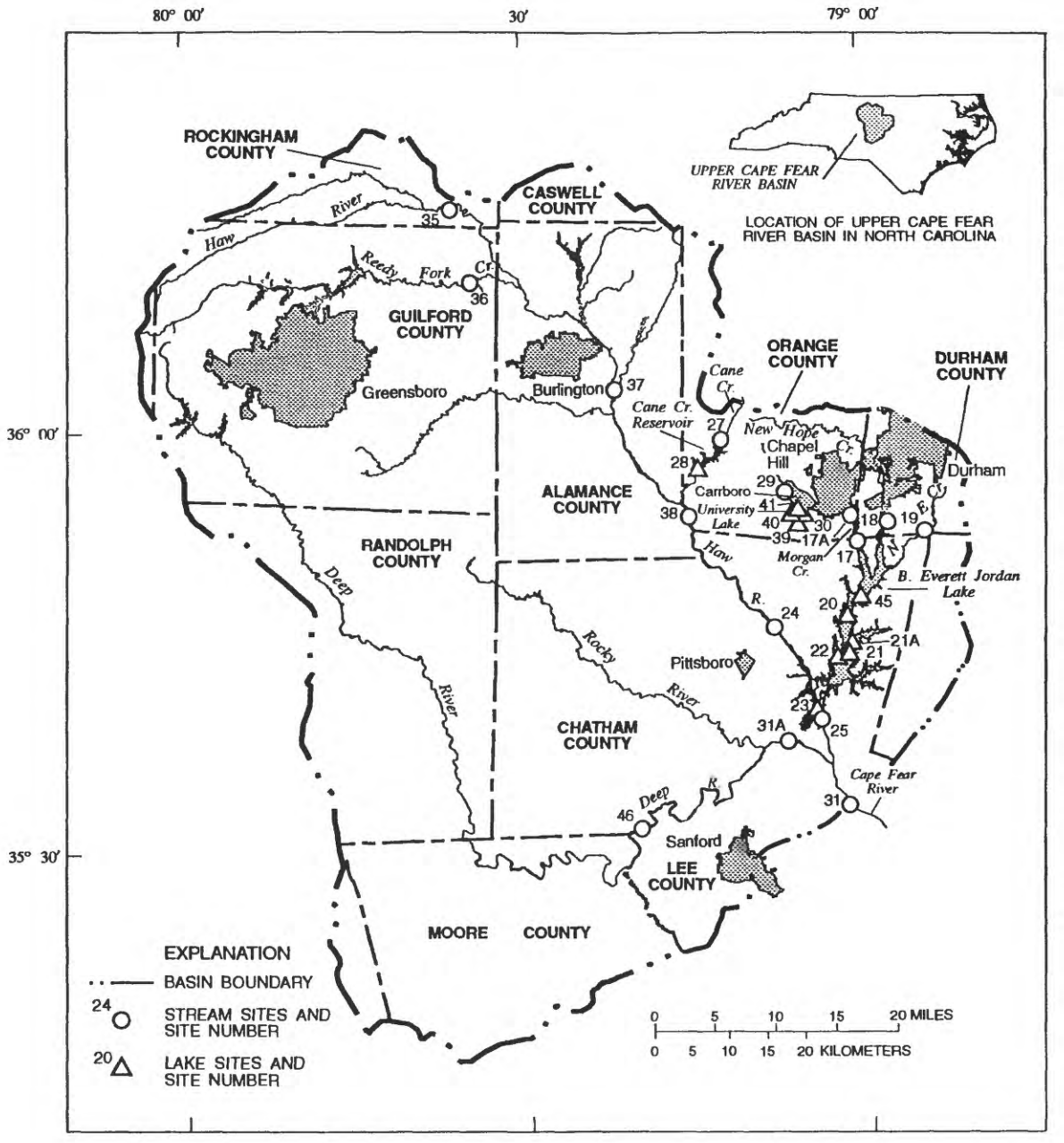


Figure 3.--Study sites in the upper Cape Fear River Basin.

of this report. Samples for analysis of dissolved constituents were filtered through a 142-mm diameter, 0.45-micron pore size membrane filter. The filter was placed in a polycarbonate filter holder, and the sample was pumped through with a peristaltic pump (table 2). Samples collected for organic analysis were collected at the centroid of flow using a weighted open-mouth sampler. Bottom-sediment samples were collected at midstream with a BMH60 bottom-sediment sampler or by scooping the material into the sample container by hand. A summary of the sample containers, container treatment, and sample preservations required for the collection and analysis of inorganic and organic constituents in water and bottom sediments at the study sites is given in table 2.

Reservoir samples were collected from a single vertical at each sampling site. Samples collected by USGS personnel for major dissolved constituents and minor element analysis were collected at a point approximately 0.15 m beneath the water surface either

by hand or by using a Kemmerer-type point sampler. Samples collected for nutrients and chlorophyll *a* and *b* analysis also were collected at a point approximately 0.15 m beneath the water surface either by hand or by using a Kemmerer-type point sampler until April 1992. Samples collected for nutrient analysis and chlorophyll *a* and *b* analysis after April 1992 were depth integrated through the photic zone using a Lab-line sampler. The photic zone was considered to be a depth equal to twice the Secchi-disk depth. Samples collected for analysis of dissolved constituents were filtered through a 142-mm diameter, 0.45-micron pore size membrane filter. The filter was placed in a polycarbonate filter holder, and the sample was pumped through with a peristaltic pump. Chlorophyll samples were filtered on site through a 47-mm glass-fiber filter in a stainless steel filter holder (table 2). Bottom-sediment samples were collected using the BMH60 bottom-sediment sampler or a ponar dredge. Samples were processed and preserved in the field as described by Ward and Harr (1990).

Water temperature, pH, specific conductance, and dissolved oxygen were analyzed in the field at the time of sample collection by USGS personnel. Field instruments were calibrated and results were documented on a daily basis.

As part of the North Carolina District's ongoing quality-assurance program, samples for equipment blanks were collected and analyzed. Beginning in 1992, duplicate samples were collected and analyzed monthly.

North Carolina Department of Environment, Health, and Natural Resources Procedures for Sample Collection and Analysis

Stream samples collected by DEHNR personnel consisted of water grab samples collected for nutrient and metals analysis. Physical characteristics were determined using a YSI Model 57 dissolved-oxygen meter (dissolved oxygen and water temperature), a pH meter, and a YSI Model 33 conductivity meter.

DEHNR personnel also collected data on physical characteristics and chemical and biological constituents in reservoirs. At each sampling site, physical measurements of dissolved oxygen, conductivity, pH, and water temperature were recorded at 1-m intervals beginning at the surface (0.15 m) and continuing below the surface to 10 m, then at 5-m intervals to the bottom using a Hydrolab water-quality meter. Secchi depth was measured in meters at each site. The DEHNR reservoir data published in this report, except nutrient and chlorophyll *a* data, are from samples collected approximately 0.15 m beneath the water surface. Nutrient and chlorophyll *a* samples were integrated within the photic zone (at a depth equal to twice the Secchi depth) using a Lab-line water sampler.

Table 2.--*Containers, container treatment, and preservation procedures required for samples collected by the U.S. Geological Survey for analyses of major dissolved constituents, major nutrients, chlorophyll* a *and* b*, minor elements, and organic compounds in water and bottom sediments*
[mL, milliliter; mm, millimeter; <, less than; °C, degrees Celsius; L, liter]

Compounds, elements, or properties analyzed	Container size	Container type	Container treatment and sample preservation
Major dissolved constituents			
Ca, Mg, Na, K	500 mL	Polyethylene, acid rinsed	Filter through a 142-mm membrane filter with 0.45-micron pore size; use filtered sample to rinse containers. Acidify collected sample with nitric acid to pH <2.
Cl, Fl, SO_4, silica	500 mL	Polyethylene, field rinsed	Filter through a 142-mm membrane filter with 0.45-micron pore size; use filtered sample to rinse containers.
Dissolved residue, pH, specific conductance, alkalinity	500 mL	Polyethylene, field rinsed	Unfiltered; use unfiltered sample to rinse containers.

Table 2.--*Containers, container treatment, and preservation procedures required for samples collected by the U.S. Geological Survey for analyses of major dissolved constituents, major nutrients, chlorophyll a and b, minor elements, and organic compounds in water and bottom sediments*--Continued
[mL, milliliter; mm, millimeter; <, less than; °C, degrees Celsius; L, liter]

Compounds, elements, or properties analyzed	Container size	Container type	Container treatment and sample preservation
		Major nutrients	
Dissolved nutrients	125 mL	Brown polyethylene, field rinsed	Filter through a 142-mm membrane filter with 0.45-micron pore size; use filtered sample to rinse containers. Add 0.5 mL of mercuric chloride solution to collected sample. Chill and maintain at 4 °C.
Total nutrients	125 mL	Brown polyethylene, field rinsed	Unfiltered; use unfiltered sample to rinse containers. Add 0.5 mL of mercuric cloride solution to collected sample. Chill and maintain at 4 °C.
		Chlorophyll *a* and *b*	
Chlorophyll *a* and *b*	40 mL	Glass vial	Filter 100 mL sample through a 47-mm glass fiber filter in a stainless-steel filter holder. Record volume filtered. Place filter in a glass vial and wrap vial in aluminum foil to exclude light. Chill and maintain at 4 °C.
		Minor elements	
Al, Cr, Cu, Co, Cd, Fe, Pb, Mo, Mn, Ni, Ag, Zn	500 mL	Polyethylene, acid rinsed	Unfiltered; use unfiltered sample to rinse containers. Acidify collected sample with nitric acid to pH <2.
As, Se	250 mL	Polyethylene, acid rinsed for arsenic and selenium total	Unfiltered; use unfiltered sample to rinse containers. Acidify collected sample with nitric acid to pH <2.
Hg	250 mL	Glass, acid rinsed for mercury total	Unfiltered; use unfiltered sample to rinse containers. Acidify collected sample with nitric acid/potassium dichromate to pH <2.
		Organic compounds	
Pesticides, semivolatile organic compounds	1 L	Glass, amber	Bottle baked at 450 °C. Do not rinse container in field. Chill and maintain sample at 4 °C.
Total organic carbon	125 mL	Glass, amber	Bottle baked at 450 °C. Do not rinse container in field. Chill and maintain sample at 4 °C.
Volatile organic compounds	40 mL	Glass septum vial, amber	Do not rinse container in field. Exclude all air bubbles in sample by completely filling vial. Protect sample from sunlight. Chill and maintain sample at 4 °C.
		Sediment	
Suspended sediment	1 pint	Glass	None.
Bottom sediment (major nutrients)	1 pint	Polyethylene, wide mouth	Field sieve sample through a 2-mm plastic sieve using native water. Chill and maintain at 4 °C.
Bottom sediment (minor elements)	1 pint	Polyethylene, wide mouth	Field sieve sample through a 2-mm plastic sieve using native water.
Bottom sediment (pesticides and other organic compounds)	1 L	Glass, wide mouth	Bottle baked at 450 °C. Do not rinse container in field. Chill and maintain sample at 4 °C.

Comparison Samples

In an attempt to document any differences that may have occurred in measured concentrations due to sampling or analytical differences between the USGS and DEHNR, quality-assurance samples for replicate analyses of selected constituents were collected during June and July 1993. The results of these analyses are listed in table 3. During the sampling period, streams were at low flow; therefore, there is a need to perform this type of replicate sampling during runoff conditions in order to compare constituent concentrations during high flows.

Prior to 1991, samples for chlorophyll *a* concentrations were collected by DEHNR. After the USGS began lake sampling in 1991, it was noted that chlorophyll *a* concentrations reported by the USGS were generally less than those that were reported by DEHNR. Replicate samples were collected in 1992 and 1993 to determine if this difference was due to different analytical methods used by the USGS and DEHNR laboratories. The DEHNR laboratory uses the Standard Methods 10200H3 fluorometric method (American Public Health Association and others, 1992, p. 10-19) upon which the North Carolina standard of 40 µg/L is based. The USGS National Water-Quality Laboratory uses USGS method B-6540-85 (Britton and Greeson, 1989), an HPLC (high pressure liquid chromatography)/fluorometric method. The median difference in concentration was -6.1 µg/L and 3.0 µg/L in 1992 and 1993, respectively (table 4). In 1992, the USGS results were less than the DEHNR results, without exception. In 1993, the USGS results were generally greater than the DEHNR results. The reason for the differences in 1992 and 1993 is unknown. The fluorometric method may significantly over- or underestimate chlorophyll *a* concentrations because of the overlap of the fluorescence bands of other pigments (American Public Health Association and others, 1992). Better separation of overlapping pigments is attained with HPLC.

Laboratory Analysis

Chemical analyses of approximately 930 samples collected by the USGS during the study period were performed by the USGS National Water-Quality Laboratory in Denver, Colorado. The analytical methods used by the USGS laboratory are documented in the following reports: "Methods for determination of inorganic substances in water and fluvial sediments" (Fishman and Friedman, 1989), "Methods for the determination of organic substances in water and fluvial sediments" (Wershaw and others, 1987), "Methods for collection and analysis of aquatic biological and microbiological samples" (Britton and Greeson, 1989), and "Methods of analysis by the U.S. Geological Survey National Water-Quality Laboratory--Determination of inorganic and organic constituents in water and fluvial sediments" (Fishman, 1993). Suspended-sediment concentrations were determined in the USGS District sediment laboratory in Raleigh, North Carolina. The methods and procedures used are documented in the report, "Laboratory theory and methods for sediment analysis" (Guy, 1969).

Chemical analyses of approximately 680 samples collected by DEHNR were performed by the DEHNR laboratory in Raleigh, North Carolina. Table 5 (p. 19) summarizes the analytical procedures and method detection limits for chemical constituents in water analyzed by the USGS National Water-Quality Laboratory and the DEHNR laboratory from October 1988 through September 1992.

WATER-QUALITY DATA

Summaries of water-quality data collected at the 51 study sites from October 1988 through September 1992 are presented beginning on page 33 of this report. Statistical summaries of physical properties and concentrations of major dissolved constituents, nutrients, minor elements, and synthetic organic compounds for each study site are presented in tables 6-53. The results of individual analyses of physical properties and concentrations of major dissolved constituents, nutrients, chlorophyll *a* and *b*, minor elements, and synthetic organic compounds in water and bottom sediments are available on diskette from the USGS, Raleigh, North Carolina.

Depending on the site, as many as 15 major nutrient constituents, 15 minor elements, and approximately 250 organic constituents were analyzed for each individual sample. DEHNR did not analyze samples for organics.

For sites where samples were collected by both agencies, USGS and DEHNR data are presented in individual statistical summaries. A statistical summary also is presented combining data from both

Table 3.--*Concentrations of selected constituents at study sites 12 and 15*

[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; ft^3/s, cubic foot per second; mg/L, milligram per liter; µg/L, microgram per liter; <, less than]

Station name and number[1]	Date and time of collection	Instantaneous discharge (ft^3/s)	Data collected and analyzed by USGS					Data collected and analyzed by DEHNR					Data collected by USGS and analyzed by DEHNR					Data collected by DEHNR and analyzed by USGS				
			N (mg/L)	P (mg/L)	Cl (mg/L)	Fe (µg/L)	Mn (µg/L)	N (mg/L)	P (mg/L)	Cl (mg/L)	Fe (µg/L)	Mn (µg/L)	N (mg/L)	P (mg/L)	Cl (mg/L)	Fe (µg/L)	Mn (µg/L)	N (mg/L)	P (mg/L)	Cl (mg/L)	Fe (µg/L)	Mn (µg/L)
Site 12 (fig. 2)																						
Little River at Secondary Road 1461 near Orange Factory 0208521324	6/16/93 at 1245	9.6	0.6	0.03	5.2	420	30	0.7	0.05	5.0	210	<10	0.7	0.05	5.0	200	<10	0.7	0.03	5.0	410	20
	6/30/93 at 1230	3.7	.4	.02	4.8	360	20	.6	.04	5.0	300	18	.5	.03	5.0	290	15	.4	.04	4.9	340	20
	7/14/93 at 1230	2.8	.3	.03	4.4	380	50	.4	.05	5.0	370	33	.4	.04	5.0	380	43	.3	.03	4.5	350	40
Site 15 (fig. 2)																						
Flat River at Bahama 02085500	6/16/93 at 1545	19	.3	.04	5.7	630	80	.5	.06	6.0	440	39	.6	.06	6.0	430	39	.5	.05	5.8	620	70
	6/30/93 at 1515	9.2	.3	.03	5.8	520	110	.3	.04	6.0	450	80	.3	.03	6.0	440	77	.3	.03	5.8	500	110
	7/14/93 at 1530	4.7	.4	.05	5.0	800	250	.5	.07	5.0	1,000	240	.2	.06	5.0	1,000	230	.5	.05	5.1	800	250

[1]U.S. Geological Survey downstream order number.

Table 4.--*Results of split samples collected to compare chlorophyll a concentrations measured by the U.S. Geological Survey using the HPLC/fluorometric method to concentrations measured by the North Carolina Department of Environment, Health, and Natural Resources using the fluorometric method*

[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources: µg/L, microgram per liter; --, no data]

Site no. (figs. 2 and 3)	Station name	Date sampled	Concentration reported by the USGS (µg/L)	Concentration reported by DEHNR (µg/L)	Difference between USGS and DEHNR concentrations (µg/L)	Date sampled	Concentration reported by the USGS (µg/L)	Concentration reported by DEHNR (µg/L)	Difference between USGS and DEHNR concentrations (µg/L)
		October 1991 to September 1992				October 1992 to September 1993			
2	Falls Lake above Dam at Falls	6/30/92	3.4	6.0	-2.6	5/6/93	12.0	9.0	3
3	Falls Lake at State Highway 98 near Bayleaf	6/30/92	.7	4.0	-3.3	5/6/93	11.0	8.0	3
4	Falls Lake at State Highway 50 near Sandy Plain	6/30/92	1.1	8.0	-6.9	5/6/93	12.0	7.0	5
5	Falls Lake at Interstate 85 near Redwood	6/30/92	5.2	39.0	-33.8	5/7/93	36.0	8.0	28
13	Little River Reservoir at Dam near Bahama	8/10/92	2.5	15.0	-12.5	5/4/93 6/15/93	3.9 11.0	3.0 11.0	0.9 0
16	Lake Michie at Dam near Bahama	6/18/92 8/11/92	21.0 1.5	120.0 7.0	-99 -5.5	5/4/93 6/15/93	13.0 21.0	4.0 21.0	9 0
21A	Jordan Lake above U.S. Highway 64 near Wilsonville	8/27/92	12.0	14.0	-2	4/20/93 6/8/93	7.7 9.4	13.0 4.0	-5.3 5.4
22	Jordan Lake at Bells Landing near Griffins Crossroads	8/27/92	6.9	8.0	-1.1	4/29/93 6/9/93	20.0 7.6	17.0 8.0	3 -.4
23	Jordan lake, Haw River Arm above B. Everett Jordan Dam	--	--	--	--	4/29/93 6/9/93	6.8 11.0	10.0 24.0	-3.2 -13
28	Cane Creek Reservoir at Dam near White Cross	8/10/92	2.2	6.0	-3.8	4/22/93 6/3/93	7.2 22.0	0.0 16.0	7.2 6
30	University Lake at intakes near Chapel Hill	8/10/92	6.9	13.0	-6.1	5/3/93 6/3/93	12.0 6.8	8.0 5.0	4 1.8
45	Jordan Lake at buoy 12 at Farrington	8/27/92	11.0	42.0	-31	--	--	--	--
		Median difference			-6.1	Median difference			3.0

agencies. The statistics tables were produced using programs developed by the USGS (Maddy and others, 1992).

In the statistical summaries, if the total number of observations above and below the detection limit is greater than 1 but less than or equal to 5, only the maximum and minimum values are reported. If the total number of observations is equal to 1, it is reported as the maximum value.

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Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*
[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Physical properties and major dissolved constituents			
00095	Specific conductance	µS/cm at 25 °C	µS/cm at 25 °C	Electrometric	Electrometric	1	1
00400	pH	Standard pH units	Standard pH units	Electrometric	Electrometric	0.1	0.1
00010	Water temperature	°C	°C	Thermometer/thermistor	Thermometer/thermistor	0.5	0.5
00080	Color	Platinum-cobalt units	--	Electrometric, visual comparison	--	1	--
00076	Turbidity	Nephelometric turbidity units	--	Nephelometric	--	0.1	--
00300	Oxygen, dissolved	mg/L	mg/L	Electrometric	Electrometric	0.1	0.1
00310	BOD 5-day	--	mg/L	--	Standard Methods 5210	--	0.1
00900	Hardness, total	mg/L	mg/L	Electrometric titration	Titration	1	1
00916	Calcium, total	--	mg/L	--	Digestion, AA direct aspiration	--	0.02
00915	Calcium, dissolved	mg/L	--	AA direct aspiration	--	0.1	--
00927	Magnesium, total	--	mg/L	--	Digestion, AA direct aspiration	--	0.02
00925	Magnesium, dissolved	mg/L	--	AA direct aspiration	--	0.1	--
00929	Sodium, total	--	mg/L	--	Digestion, AA direct aspiration	--	0.02
00930	Sodium, dissolved	mg/L	--	AA direct aspiration	--	0.1	--
00935	Potassium, disolved	mg/L	--	AA direct aspiration	--	0.1	--
90410	Alkalinity, lab	mg/L	--	Electrometric titration	--	1	--
00431	Alkalinity, field	--	mg/L	--	Electrometric titration	--	1
00945	Sulfate, dissolved	mg/L		Turbidimetry, automated (10/88-3/90) Ion-exchange chromatography (4/90-9/92)	--	0.1	--

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued

[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Physical properties and major dissolved constituents--Continued			
00940	Chloride, dissolved	mg/L	--	Colorimetry, automated (10/88-3/90) Ion-exchange chromatography (4/90-9/92)	--	0.1	--
00950	Fluoride, dissolved	mg/L	--	Ion-selective electrode, automated (10/88-3/90) Ion-exchange chromatography (4/90-9/92)	--	0.1	--
00955	Silica, dissolved	mg/L	--	Automated-segmented flow colorimetry	--	0.1	--
38260	Detergents, MBAS	mg/L	--	Colorimetric	--	0.01	--
70300	Dissolved solids residue at 180 °C	mg/L	--	Gravimetric	--	1.0	--
00530	Residue on evaporation at 105 °C, suspended	--	mg/L	--	Gravimetric	--	1.0
00500	Residue on evaporation at 105 °C, total	--	mg/L	--	Gravimetric	--	1.0
80154	Suspended sediment	mg/L	--	Gravimetric	--	1.0	--
				Major nutrients and chlorophyll *a* and *b*			
00615	Nitrogen, nitrite, total	mg/L	--	Diazotization, automated-segmented flow, colorimetry	--	0.01	--
00613	Nitrogen, nitrite, dissolved	mg/L	--	Diazotization, automated-segmented flow, colorimetry	--	0.01	--
00630	$NO_2 + NO_3$, total	mg/L	--	Cadmium reduction, automated, colorimetry	Cadmium reduction, automated, colorimetry	0.05	0.01
00631	$NO_2 + NO_3$, dissolved	mg/L	--	Cadmium reduction, automated, colorimetry	--	0.05	--
00610	Nitrogen, ammonia, total	mg/L	mg/L	Salicylate-hypochlorite, automated-segmented flow, colorimetry	Automated phenate, colorimetry	0.01	0.01

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued

[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Major nutrients and chlorophyll *a* and *b*--Continued			
00608	Nitrogen, ammonia, dissolved	mg/L	--	Salicylate-hypochlorite, automated-segmented flow, colorimetry	--	0.01	--
00605	Nitrogen, organic, total	mg/L	mg/L	Calculated from parameters 00625 and 00610	Calculated from parameters 00625 and 00610	--	--
00607	Nitrogen, organic, dissolved	mg/L	mg/L	Calculated from parameters 00623 and 00608	Calculated from parameters 00623 and 00608	--	--
00625	Nitrogen, ammonia + organic, total	mg/L	mg/L	Kjeldahl block digestion, salicylate-hypochlorite, automated-segmented flow, colorimetry (10/88-10/91) Jirka block digestion, salicylate-hypochlorite, automated-segmented flow, colorimetry (10/91-10/92)	Automated phenate, colorimetry	0.2	0.1
00623	Nitrogen, ammonia + organic, dissolved	mg/L	--	Kjeldahl block digestion, salicylate-hypochlorite, automated-segmented flow, colorimetry (10/88-10/91) Jirka block digestion, salicylate-hypochlorite, automated-segmented flow, colorimetry (10/91-10/92)	--	0.2	--
00600	Nitrogen, total	mg/L	mg/L	Calculated from parameters 00625 and 00615	Calculated from parameters 00625 and 00630	--	--
00665	Phosphorus, total	mg/L	mg/L	Persulfate digestion, automated ascorbic acid reduction colorimetry (10/88-10/91) Jirka modified persulfate block digestion, automated ascorbic acid reduction colorimetry (10/91-10/92)	Persulfate digestion, automated, ascorbic acid reduction, colorimetry	0.01	0.01

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued

[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Major nutrients and chlorophyll *a* and *b*--Continued			
00666	Phosphorus, dissolved	mg/L	--	Ascorbic acid reduction, colorimetry	--	0.01	--
70507	Phosphorus, ortho, total	mg/L	mg/L	Ascorbic acid reduction, automated-segmented flow, colorimetry	Ascorbic acid reduction, automated, colorimetry	0.01	0.01
00671	Phosphorus, ortho, dissolved	mg/L	--	Ascorbic acid reduction, automated-segmented flow, colorimetry	--	0.01	--
70953	Chlorophyll *a*, photoplankton	µg/L	--	High pressure liquid chromatography, fluorometry	--	0.1	--
70954	Chlorophyll *b*, phytoplankton	µg/L	--	High pressure liquid chromatography, fluorometry	--	0.1	--
32217	Chlorophyll *a*, fluorometric method, uncorrected	--	µg/L	--	Fluorometric, Standard Methods 18th edition 10200H chlorophyll	--	1
32209	Chlorophyll *a*, fluorometric method, corrected	--	µg/L	--	Fluorometric, Standard Methods 18th edition 10200H chlorophyll	--	1
				Minor elements			
01105	Aluminum, total	µg/L	--	Digestion, atomic emission, direct current plasma	--	10	--
01002	Arsenic, total	µg/L	µg/L	Digestion, AA, hydride	Digestion, AA, furnace	1	10
01027	Cadmium, total	µg/L	µg/L	Digestion, chelation extraction, AA (10/88-5/89) Digestion, AA, graphite furnace (5/89-10/92)	Digestion, AA, furnace	1	2
01034	Chromium, total	µg/L	µg/L	Digestion, atomic emission, direct current plasma	Digestion, AA, direct aspiration	1	25

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued
[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Minor elements--Continued			
01037	Cobalt, total	µg/L	--	Digestion, chelation extraction, AA (10/88-5/89)	--	1	--
				Digestion, AA, graphite furnace (6/89-10/92)			
01042	Copper, total	µg/L	µg/L	Digestion, chelation extraction, AA (10/88-5/89)	Digestion, AA, direct aspiration	1	10
				Digestion, AA, graphite furnace (6/89-10/92)			
01045	Iron, total	µg/L	--	Digestion, AA, direct aspiration	--	10	--
01051	Lead, total	µg/L	µg/L	Digestion, chelation extraction, AA (10/88-5/89)	Digestion, AA, furnace	1	10
				Digestion, AA, graphite furnace (6/89-10/92)			
01055	Manganese, total	µg/L	--	Digestion, AA, direct aspiration	--	10	--
71900	Mercury, total	µg/L	µg/L	Digestion, cold vapor	Digestion, cold vapor	0.1	0.2
01062	Molybdenum, total	µg/L	--	Digestion, chelation extraction, AA	--	1	--
01067	Nickel, total	µg/L	µg/L	Digestion, chelation extraction, AA (10/88-5/89)	Digestion, AA, furnace	1	10
				Digestion, AA, graphite furnace (6/89-10/92)			
01147	Selenium, total	µg/L	--	Digestion, hydride conversion, AA	--	1	--
01077	Silver, total	µg/L	--	Digestion, chelation extraction, AA (10/88-5/89)	--	1	--
				Digestion, AA, graphite furnace (6/89-10/92)			
01092	Zinc, total	µg/L	µg/L	Digestion, AA, direct aspiration	Digestion, AA, direct aspiration	10	10

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued
[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Organic compounds			
00680	Carbon, organic, total	mg/L	--	Wet oxidation	--	0.1	--
39330	Aldrin, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.001	--
39350	Chlordane, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.100	--
39360	DDD, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.001	--
39365	DDE, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.001	--
39370	DDT, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.001	--
39570	Diazinon, total	µg/L	--	Gas chromatograph/ flame-photometric detector	--	0.010	--
39380	Dieldrin, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.001	--
39388	Endosulfan, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.001	--
39390	Endrin, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.001	--
39398	Ethion, total	µg/L	--	Gas chromatograph/ flame-photometric detector	--	0.010	--
39516	PCB, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.100	--
39250	PCN, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.100	--
39420	Heptachlor epoxide, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.001	--
39410	Heptachlor, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.001	--

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued

[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Organic compounds--Continued			
39340	Lindane, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.001	--
39530	Malathion, total	µg/L	--	Gas chromatograph/ flame-photometric detector	--	0.010	--
39480	Methoxychlor, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.010	--
39600	Methyl parathion, total	µg/L	--	Gas chromatograph/ flame-photometric detector	--	0.010	--
39790	Methyl trithion, total	µg/L	--	Gas chromatograph/ flame-photometric detector	--	0.010	--
39755	Mirex, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.010	--
39540	Parathion, total	µg/L	--	Gas chromatograph/ flame-photometric detector	--	0.010	--
39034	Perthane, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	0.100	--
39400	Toxaphene, total	µg/L	--	Gas chromatograph/ electron-capture detector	--	1.000	--
39786	Trithion, total	µg/L	--	Gas chromatograph/ flame-photometric detector	--	0.010	--
34030	Benzene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
32104	Bromoform, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
32102	Carbon tetrachloride, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34301	Chlorobenzene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
32105	Chlorodibromomethane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued

[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Organic compounds--Continued			
34311	Chloroethane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
32106	Chloroform, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34418	Methylchloride, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34704	cis 1,3-Dichloro-propene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
32101	Dichlorobromo-methane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34668	Dichlorodifluoro-methane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34371	Ethyl benzene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34413	Methyl bromide, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34423	Methylene chlo-ride, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
77128	Styrene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34475	Tetrachloro-ethylene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34010	Toluene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34699	trans 1,3-Dichloro-propene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
39180	Trichloroethylene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34488	Trichlorofluoro-methane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued
[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Organic compounds--Continued			
39175	Vinyl chloride, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
81551	Xylene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34501	1,1-Dichloro-ethylene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34496	1,1-Dichloro-ethane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34506	1,1,1-Trichloro-ethane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34511	1,1,2-Trichloro-ethane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34516	1,1,2,2-Tetrachloro-ethane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34536	O-Chlorobenzene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
32103	1,2-Dichloro-ethane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34541	1,2-Dichloro-propane, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34561	1,3-Dichloro-propene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34546	1,2-Transdichloro-ethene, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34576	2-Chloroethyl vinyl ether, total	µg/L	--	Purge and trap; gas chromatograph/ mass spectrometry	--	0.2	--
34205	Acenaphthene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34200	Acenaphthylene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued

[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Organic compounds--Continued			
34220	Anthracene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34526	Benzo(a)anthracene (1,2-Benzanthracene), total	µg/L	--	Gas chromatograph/mass spectrometry	--	10	--
34247	Benzo(a)pyrene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	10	--
34230	Benzo(b)fluoranthene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	10	--
34521	Benzo(g,h,i)perylene (1,12-Benzoperylene), total	µg/L	--	Gas chromatograph/mass spectrometry	--	10	--
34242	Benzo(k)fluoranthene	µg/L	--	Gas chromatograph/mass spectrometry	--	10	--
34292	N-Butyl benzyl phthalate, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34452	Parachlorometacresol, total	µg/L	--	Gas chromatograph/mass spectrometry	--	30	--
34320	Chrysene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	10	--
39110	Di-N-butyl phthalate, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34596	Di-N-octyl phthalate, total	µg/L	--	Gas chromatograph/mass spectrometry	--	10	--
34556	1,2,5,6-Dibenzanthracene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	10	--
34336	Diethyl phthalate, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34341	Dimethyl phthalate, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued

[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Organic compounds--Continued			
34657	4,6-Dinitro-orthocresol, total	µg/L	--	Gas chromatograph/mass spectrometry	--	30	--
34376	Fluoranthene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34381	Fluorene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
39700	Hexachloro-benzene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
39702	Hexachlorobuta-diene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34386	Hexachlorocyclo-pentadiene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34396	Hexachloroethane, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34403	Indeno (1,2,3-CD) pyrene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	10	--
34408	Isophorone, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34428	N-Nitrosodi-N-propylamine, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34433	N-Nitrosodipheny-lamine, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34696	Naphthalene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34447	Nitrobenzene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34438	N-Nitrosodimethy-lamine, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
39032	Pentachlorophenol, total	µg/L	--	Gas chromatograph/mass spectrometry	--	30	--

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued

[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Organic compounds--Continued			
34461	Phenanthrene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34694	Phenol (C6H-50H), total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34469	Pyrene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34551	1,2,4-Trichloro-benzene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34566	1,3-Dichloro-benzene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34571	1,4-Dichloro-benzene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34278	Bis(2-chloro-ethoxy) methane, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34273	Bis-2-chloroethyl ether, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34283	Bis(2-chloro-isopropyl) ether, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34581	2-Chloronaphtha-lene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34586	2-Chlorophenol, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
39100	Bis(2-ethylhexyl) phthalate, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34591	2-Nitrophenol, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34606	2,4-Dimethylphe-nol, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34616	2,4-Dinitrophenol, total	µg/L	--	Gas chromatograph/mass spectrometry	--	20	--

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued
[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Organic compounds--Continued			
34611	2,4-Dinitrotoluene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34621	2,4,6-Trichlorophenol, total	µg/L	--	Gas chromatograph/mass spectrometry	--	20	--
34626	2,6-Dinitrotoluene, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34636	4-Bromophenyl ether, total	µg/L	--	Gas chromatograph/mass spectrometry	--	5	--
34646	4-Nitrophenol, total	µg/L	--	Gas chromatograph/mass spectrometry	--	30	--
38932	Chlorpyrifos, total	µg/L	--	Gas chromatograph/flame photometry	--	0.01	--
39011	Disyston, total	µg/L	--	Gas chromatograph/flame photometry	--	0.01	--
39023	Phorate, total	µg/L	--	Gas chromatograph/flame photometry	--	0.01	--
39040	DEF, total	µg/L	--	Gas chromatograph/flame photometry	--	0.01	--
77651	1,2-Dibromoethane, total	µg/L	--	Gas chromatograph/mass spectrometry	--	0.2	--
82614	Fonofos (dyfonate), total	µg/L	--	Gas chromatograph/flame photometry	--	0.01	--
04035	Simazine, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--
04036	Prometryn, disolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--
04037	Prometon, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--
04038	Deisopropyl atrazine, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--

Table 5.--*Analytical procedures and method detection limits for chemical constituents in water analyzed by the U.S. Geological Survey National Water-Quality Laboratory and the North Carolina Department of Environment, Health, and Natural Resources Laboratory, October 1988 through September 1992*--Continued
[USGS, U.S. Geological Survey; DEHNR, North Carolina Department of Environment, Health, and Natural Resources; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; --, not applicable; mg/L, milligram per liter; AA, atomic absorption spectrometry; µg/L, microgram per liter]

Parameter code	Chemical constituent	Reporting unit		Analytical method		Method detection limit (minimum reporting level)	
		USGS	DEHNR	USGS	DEHNR	USGS	DEHNR
				Organic compounds--Continued			
04040	Deethylatrazine, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--
04041	Cyanazine, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.2	--
46342	Alachlor, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--
38401	Ametryn, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--
39632	Atrazine, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--
39415	Metolachlor, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--
82630	Metribuzin, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--
38535	Propazine, dissolved	µg/L	--	Gas chromatograph/mass spectrometry	--	0.05	--

DATA TABLES

Abbreviations and symbols used in tables 6-53:

BOD	biochemical oxygen demand
BTM	bottom material
ft^3/s	cubic foot per second
°C	degrees Celsius
ft	foot
µg/L	microgram per liter
µS/cm at 25 °C	microsiemens per centimeter at 25 degrees Celsius
mi	mile
mg/L	milligram per liter
NTU	nephelometric turbidity units
--	no data

Table 6.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 1, Neuse River near Falls

Location.--Latitude 35°56'25", longitude 78°34'56", Wake County, on right bank 300 ft downstream from Falls Lake Dam, and 0.3 mi northwest of Falls, USGS downstream order number 02087183.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	43	4,820.000	63.000	701.512	3,686.000	517.000	171.000	163.000	71.600
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	41	142.000	55.000	88.951	119.600	100.000	88.000	75.000	60.400
00400	pH, FIELD (STANDARD pH UNITS)	43	7.800	6.300	--	7.480	7.200	7.100	6.700	6.400
00010	WATER TEMPERATURE (°C)	42	29.000	5.000	17.869	28.350	25.375	18.000	11.500	5.725
00076	TURBIDITY (NTU)	14	13.000	3.200	6.307	13.000	8.375	6.050	3.550	3.200
00300	OXYGEN, DISSOLVED (mg/L)	43	13.000	5.200	8.902	12.600	10.100	8.700	7.500	6.800
00310	BOD 5-DAY AT 20 °C (mg/L)	13	2.900	0.400	1.777	2.900	2.050	1.700	1.450	0.400
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	13	61.000	2.000	27.385	61.000	32.000	25.000	23.000	2.000
00916	CALCIUM, TOTAL (mg/L as Ca)	2	5.300	4.800	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	2.100	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	4.000	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L AS $CaCO_3$)	41	69.000	9.000	27.244	41.700	33.000	25.000	22.000	10.200
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	14.000	3.000	6.929	14.000	9.000	6.000	5.000	3.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	110.000	69.000	84.071	110.000	97.000	81.500	69.000	69.000

Table 6.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 1, Neuse River near Falls

Location.--Latitude 35°56'25", longitude 78°34'56", Wake County, on right bank 300 ft downstream from Falls Lake Dam, and 0.3 mi northwest of Falls, USGS downstream order number 02087183.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	NO_2 + NO_3, TOTAL (mg/L as N)	41	0.510	<0.010	0.155*	0.430	0.280	0.090	<0.010	<0.010
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	41	0.400	0.020	0.125	0.379	0.155	0.090	<0.040	0.020
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	41	0.610	0.250	0.387	0.549	0.455	0.370	<0.320	0.261
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	41	0.900	0.300	0.512	0.790	0.600	0.500	<0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	41	1.100	0.300	0.665	0.985	0.820	0.660	<0.510	0.301
00665	PHOSPHORUS, TOTAL (mg/L as P)	41	0.110	0.010	0.037	0.098	0.045	0.030	<0.020	0.011
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	36	0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 6.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 1, Neuse River near Falls

Location.--Latitude 35°56'25", longitude 78°34'56", Wake County, on right bank 300 ft downstream from Falls Lake Dam, and 0.3 mi northwest of Falls, USGS downstream order number 02087183.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	3	200.000	110.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	14	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	14	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	14	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	2	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	14	4.000	<2.000	2.324*	4.000	3.000	<10.000	<2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	3	430.000	190.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	14	15.000	<10.000	--	15.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	2	180.000	72.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	14	<0.200	<0.100	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	14	<50.000	<10.000	--	<50.000	<10.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	2	<5.000	<5.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	2	<25.000	<5.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	14	20.000	<10.000	--	20.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 6.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 1, Neuse River near Falls

Location.--Latitude 35°56'25", longitude 78°34'56", Wake County, on right bank 300 ft downstream from Falls Lake Dam, and 0.3 mi northwest of Falls, USGS downstream order number 02087183.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39330	ALDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	8	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	0.400	<0.200	--	0.400	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	0-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 7.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 2, Falls Lake above Dam at Falls

Location.--Latitude 35°56'28", longitude 78°35'02", Wake County, 0.05 mi above dam, and 0.5 mi northwest of Falls, USGS downstream order number 02087182.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	5	118.000	87.000	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	5	7.800	6.500	--	--	--	--	--	--
00010	WATER TEMPERATURE (°C)	5	32.000	15.000	--	--	--	--	--	--
00080	COLOR (PLATINUM-COBALT UNITS)	5	40.000	14.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	4	12.500	4.300	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	4	123.000	48.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	32.000	23.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	7.900	5.500	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.000	2.300	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	10.000	6.400	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	2.600	1.800	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	37.000	21.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	11.000	5.300	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	7.000	5.900	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.200	<0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	6.100	<0.100	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	72.000	54.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	13	99.000	65.000	78.462	99.000	84.000	80.000	70.000	65.000
00400	pH, FIELD (STANDARD pH UNITS)	13	8.300	6.300	--	8.300	7.700	7.100	6.950	6.300
00010	WATER TEMPERATURE (°C)	13	31.000	14.000	24.538	31.000	28.250	27.000	20.500	14.000
00300	OXYGEN, DISSOLVED (mg/L)	13	10.900	3.900	8.262	10.900	9.050	8.700	7.350	3.900
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	9.000	2.000	5.143	9.000	6.250	5.000	3.750	2.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	120.000	12.000	72.000	120.000	87.250	74.500	60.750	12.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	18	118.000	65.000	84.000	118.000	92.750	81.500	72.750	65.000
00400	pH, FIELD (STANDARD pH UNITS)	18	8.300	6.300	--	8.300	7.650	7.050	6.675	6.300
00010	WATER TEMPERATURE (°C)	18	32.000	14.000	24.333	32.000	28.125	26.750	20.500	14.000
00080	COLOR (PLATINUM-COBALT UNITS)	5	40.000	14.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	17	12.500	3.900	8.276	12.500	9.050	8.700	7.300	3.900
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	4	123.000	48.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	32.000	23.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	7.900	5.500	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.000	2.300	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	10.000	6.400	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	2.600	1.800	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	37.000	21.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	11.000	5.300	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	7.000	5.900	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.200	<0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	6.100	<0.100	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	72.000	54.000	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	9.000	2.000	5.143	9.000	6.250	5.000	3.750	2.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	120.000	12.000	72.000	120.000	87.250	74.500	60.750	12.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 7.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 2, Falls Lake above Dam at Falls

Location.--Latitude 35°56'28", longitude 78°35'02", Wake County, 0.05 mi above dam, and 0.5 mi northwest of Falls, USGS downstream order number 02087182.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.010	<0.010	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	5	0.010	<0.010	--	--	--	--	--	--
00630	NO_2 + NO_3, TOTAL (mg/L as N)	4	0.140	<0.050	--	--	--	--	--	--
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	5	0.130	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	4	0.510	<0.010	--	--	--	--	--	--
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	5	0.530	0.020	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	5	0.580	0.380	--	--	--	--	--	--
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	5	0.330	0.220	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	5	1.000	0.400	--	--	--	--	--	--
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	5	0.800	0.300	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	5	1.000	0.400	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	5	0.040	<0.010	--	--	--	--	--	--
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	5	0.040	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	4	<0.010	<0.010	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	5	<0.010	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL *A*, PHYTOPLANKTON (µg/L)	5	4.200	1.700	--	--	--	--	--	--
70954	CHLOROPHYLL *B*, PHYTOPLANKTON (µg/L)	5	<0.600	<0.100	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	NO_2 + NO_3, TOTAL (mg/L as N)	14	0.310	<0.010	0.053*	0.310	0.020	0.010	<0.010	<0.010
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	14	0.430	0.010	0.096	0.430	0.102	0.035	0.027	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	14	0.670	0.210	0.404	0.670	0.485	0.370	0.335	0.210
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	14	1.100	0.300	0.500	1.100	0.525	0.400	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	14	1.100	0.300	0.551	1.100	0.612	0.500	0.400	0.300
00665	PHOSPHORUS, TOTAL (mg/L as P)	14	1.200	0.010	0.111	1.200	0.038	0.025	0.017	0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	14	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	14	74.000	6.000	22.214	74.000	25.750	18.000	10.750	6.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	14	69.000	5.000	21.286	69.000	28.000	17.500	9.500	5.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.010	<0.010	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	5	0.010	<0.010	--	--	--	--	--	--
00630	NO_2 + NO_3, TOTAL (mg/L as N)	18	0.310	<0.010	0.053*	0.310	0.050	0.010	<0.010	<0.010
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	5	0.130	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	18	0.510	<0.010	0.118*	0.510	0.110	0.040	0.030	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	5	0.530	0.020	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	19	0.670	0.210	0.428	0.670	0.510	0.390	0.360	0.210
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	5	0.330	0.220	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	19	1.100	0.300	0.542	1.100	0.600	0.400	0.400	0.300
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	5	0.800	0.300	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	19	1.100	0.300	0.587	1.100	0.700	0.570	0.400	0.300
00665	PHOSPHORUS, TOTAL (mg/L as P)	19	1.200	<0.010	0.088*	1.200	0.040	0.020	0.010	0.010
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	5	0.040	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	18	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	5	<0.010	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	5	4.200	1.700	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	5	<0.600	<0.100	--	--	--	--	--	--
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	14	74.000	6.000	22.214	74.000	25.750	18.000	10.750	6.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	14	69.000	5.000	21.286	69.000	28.000	17.500	9.500	5.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 7.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 2, Falls Lake above Dam at Falls

Location.--Latitude 35°56'28", longitude 78°35'02", Wake County, 0.05 mi above dam, and 0.5 mi northwest of Falls, USGS downstream order number 02087182.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	5	150.000	40.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	5	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	5	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	5	4.000	<1.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	5	<1.000	<1.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	3.000	2.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	5	870.000	70.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	5	1.000	<1.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	5	900.000	20.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	5	<0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	1.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	5.000	<1.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	5	30.000	<10.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	14	590.000	<50.000	189.627*	590.000	200.000	110.000	80.000	70.000
01027	CADMIUM, TOTAL (µg/L as Cd)	3	<2.000	<2.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	4	<25.000	<25.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	2	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	3	23.000	<2.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	3	270.000	<50.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	3	<10.000	<10.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	14	600.000	14.000	133.357	600.000	152.500	58.000	33.750	14.000
71900	MERCURY, TOTAL (µg/L as Hg)	5	<0.200	<0.200	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	3	<10.000	<10.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	4	<10.000	<10.000	--	--	--	--	--	--

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	19	590.000	<50.000	157.050*	590.000	180.000	90.000	50.000	40.000
01002	ARSENIC, TOTAL (µg/L as As)	5	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	8	<2.000	<1.000	--	<2.000	<2.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	9	4.000	<1.000	--	4.000	<25.000	<25.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	7	<50.000	<1.000	--	<50.000	<50.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	8	23.000	<2.000	4.821*	23.000	3.000	2.000	2.000	2.000
01045	IRON, TOTAL (µg/L as Fe)	8	870.000	<50.000	208.048*	870.000	200.000	80.000	60.000	60.000
01051	LEAD, TOTAL (µg/L as Pb)	8	1.000	<1.000	--	1.000	<10.000	<10.000	<1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	19	900.000	14.000	192.474	900.000	220.000	55.000	33.000	14.000
71900	MERCURY, TOTAL (µg/L as Hg)	10	<0.200	<0.100	--	<0.200	<0.200	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	1.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	8	5.000	<1.000	--	5.000	1.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	9	30.000	<10.000	--	30.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 7.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 2, Falls Lake above Dam at Falls

Location.--Latitude 35°56'28", longitude 78°35'02", Wake County, 0.05 mi above dam, and 0.5 mi northwest of Falls, USGS downstream order number 02087182.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	5	8.900	6.300	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	1	1.000	--	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	1	0.300	--	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	1	0.300	--	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	11	0.001	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	11	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	10	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	10	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	10	0.700	<0.200	--	0.700	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	10	0.600	<0.200	--	0.600	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	10	0.900	<0.200	--	0.900	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 7.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 2, Falls Lake above Dam at Falls

Location.--Latitude 35°56'28", longitude 78°35'02", Wake County, 0.05 mi above dam, and 0.5 mi northwest of Falls, USGS downstream order number 02087182.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-5OH), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 7.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 2, Falls Lake above Dam at Falls

Location.--Latitude 35°56'28", longitude 78°35'02", Wake County, 0.05 mi above dam, and 0.5 mi northwest of Falls, USGS downstream order number 02087182.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39023	PHORATE, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.120	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 8.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 3, Falls Lake at State Highway 98 near Bayleaf

Location.--Latitude 35°58'42", longitude 78°37'59", Wake County, at bridge on State Highway 98, and 2.0 mi north of Bayleaf, USGS downstream order number 0208708905.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	5	127.000	91.000	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	5	7.800	6.700	--	--	--	--	--	--
00010	WATER TEMPERATURE (°C)	5	31.000	14.000	--	--	--	--	--	--
00080	COLOR (PLATINUM-COBALT UNITS)	5	40.000	13.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	4	12.600	3.500	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	4	122.000	39.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	31.000	24.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	7.400	5.800	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.000	2.400	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	13.000	7.200	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	2.500	1.700	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	42.000	23.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	11.000	6.500	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	8.100	6.100	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.200	<0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	5.800	<0.100	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	76.000	36.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	13	105.000	64.000	81.231	105.000	89.000	81.000	69.000	64.000
00400	pH, FIELD (STANDARD pH UNITS)	13	7.800	6.300	--	7.800	7.600	7.200	6.900	6.300
00010	WATER TEMPERATURE (°C)	13	30.000	14.500	24.385	30.000	28.250	27.000	20.750	14.500
00300	OXYGEN, DISSOLVED (mg/L)	13	11.100	5.000	8.415	11.100	9.750	8.400	7.500	5.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	10.000	3.000	6.286	10.000	7.500	6.000	4.750	3.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	96.000	60.000	80.214	96.000	89.500	81.000	73.000	60.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	18	127.000	64.000	87.611	127.000	97.000	86.500	75.500	64.000
00400	pH, FIELD (STANDARD pH UNITS)	18	7.800	6.300	--	7.800	7.600	7.150	6.875	6.300
00010	WATER TEMPERATURE (°C)	18	31.000	14.000	24.194	31.000	28.625	26.750	20.500	14.000
00080	COLOR (PLATINUM-COBALT UNITS)	5	40.000	13.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	17	12.600	3.500	8.388	12.600	9.750	8.400	7.450	3.500
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	4	122.000	39.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	31.000	24.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	7.400	5.800	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.000	2.400	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	13.000	7.200	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	2.500	1.700	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	42.000	23.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	11.000	6.500	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	8.100	6.100	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.200	<0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	5.800	<0.100	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	76.000	36.000	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	10.000	3.000	6.286	10.000	7.500	6.000	4.750	3.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	96.000	60.000	80.214	96.000	89.500	81.000	73.000	60.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 8.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 3, Falls Lake at State Highway 98 near Bayleaf

Location.--Latitude 35°58'42", longitude 78°37'59", Wake County, at bridge on State Highway 98, and 2.0 mi north of Bayleaf, USGS downstream order number 0208708905.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.120	<0.010	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	5	<0.010	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	4	0.160	<0.050	--	--	--	--	--	--
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	5	0.080	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	4	0.230	<0.010	--	--	--	--	--	--
00608	AMMONIA, DISSOLVED (mg/L as N)	5	0.510	0.020	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	5	0.680	0.380	--	--	--	--	--	--
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	5	0.400	0.180	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	5	0.800	0.400	--	--	--	--	--	--
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	5	0.800	0.200	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	5	0.960	0.400	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	5	0.060	<0.010	--	--	--	--	--	--
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	5	0.020	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	4	<0.010	<0.010	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	5	0.010	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	5	6.600	0.700	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	5	<0.600	<0.100	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	14	0.300	<0.010	0.055*	0.300	0.060	0.010	<0.010	<0.010
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	14	0.390	<0.010	0.088*	0.390	0.070	0.030	0.020	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	14	0.570	0.190	0.391	0.570	0.480	0.375	0.345	0.190
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	14	0.700	0.200	0.479	0.700	0.600	0.500	0.400	0.200
00600	NITROGEN, TOTAL (mg/L as N)	14	0.720	0.210	0.533	0.720	0.645	0.545	0.423	0.210
00665	PHOSPHORUS, TOTAL (mg/L as P)	14	0.070	0.010	0.034	0.070	0.040	0.030	0.020	0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	14	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	14	92.000	4.000	24.071	92.000	30.000	17.500	13.000	4.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	14	94.000	4.000	23.571	94.000	28.000	16.000	12.000	4.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.120	<0.010	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	5	<0.010	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	18	0.300	<0.010	0.058*	0.300	0.089	0.010	<0.010	<0.010
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	5	0.080	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	18	0.390	<0.010	0.089*	0.390	0.100	0.040	0.020	<0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	5	0.510	0.020	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	19	0.680	0.190	0.429	0.680	0.500	0.440	0.350	0.190
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	5	0.400	0.180	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	19	0.800	0.200	0.516	0.800	0.600	0.500	0.400	0.200
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	5	0.800	0.200	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	19	0.960	0.210	0.569	0.960	0.700	0.590	0.430	0.210
00665	PHOSPHORUS, TOTAL (mg/L as P)	19	0.070	<0.010	0.034*	0.070	0.040	0.030	0.020	0.010
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	5	0.020	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	18	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	5	0.010	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	5	6.600	0.700	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	5	<0.600	<0.100	--	--	--	--	--	--
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	14	92.000	4.000	24.071	92.000	30.000	17.500	13.000	4.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	14	94.000	4.000	23.571	94.000	28.000	16.000	12.000	4.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 8.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 3, Falls Lake at State Highway 98 near Bayleaf

Location.--Latitude 35°58'42", longitude 78°37'59", Wake County, at bridge on State Highway 98, and 2.0 mi north of Bayleaf, USGS downstream order number 0208708905.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	5	290.000	40.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	5	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	5	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	5	2.000	<1.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	5	<1.000	<1.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	3.000	1.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	5	620.000	70.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	5	4.000	<1.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	5	580.000	20.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	5	<0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	1.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	7.000	<1.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	5	<10.000	<10.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	14	800.000	60.000	190.714	800.000	185.000	140.000	107.500	60.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	1	<25.000	--	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	1	440.000	--	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	14	270.000	29.000	91.857	270.000	119.000	49.000	42.250	29.000
01092	ZINC, TOTAL (µg/L as Zn)	1	<10.000	--	--	--	--	--	--	--

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	19	800.000	40.000	165.263	800.000	180.000	130.000	60.000	40.000
01002	ARSENIC, TOTAL (µg/L as As)	5	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	5	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	6	2.000	<1.000	--	2.000	2.000	<25.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	5	<1.000	<1.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	3.000	1.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	6	620.000	70.000	283.333	620.000	485.000	230.000	100.000	70.000
01051	LEAD, TOTAL (µg/L as Pb)	5	4.000	<1.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	19	580.000	20.000	125.053	580.000	200.000	49.000	40.000	20.000
71900	MERCURY, TOTAL (µg/L as Hg)	5	<0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	1.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	7.000	<1.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	6	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 8.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 3, Falls Lake at State Highway 98 near Bayleaf

Location.--Latitude 35°58'42", longitude 78°37'59", Wake County, at bridge on State Highway 98, and 2.0 mi north of Bayleaf, USGS downstream order number 0208708905.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	5	14.000	6.900	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	1	6.000	--	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	1	0.800	--	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	1	0.800	--	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39571	BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	11	0.001	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	1	0.100	--	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	11	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	1	<0.500	--	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	10	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	10	0.400	<0.200	--	0.400	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	10	0.800	<0.200	--	0.800	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	10	1.200	<0.200	--	1.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 8.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 3, Falls Lake at State Highway 98 near Bayleaf

Location.--Latitude 35°58'42", longitude 78°37'59", Wake County, at bridge on State Highway 98, and 2.0 mi north of Bayleaf, USGS downstream order number 0208708905.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	34584 2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 8.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 3, Falls Lake at State Highway 98 near Bayleaf

Location.--Latitude 35°58'42", longitude 78°37'59", Wake County, at bridge on State Highway 98, and 2.0 mi north of Bayleaf, USGS downstream order number 0208708905.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39011	DISYSTON, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.110	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 9.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 4, Falls Lake at State Highway 50 near Sandy Plain

Location.--Latitude 36°00'54", longitude 78°41'29", Wake County, at bridge on State Highway 50, and 3.3 mi south of Sandy Plain, USGS downstream order number 0208703650.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	5	144.000	102.000	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	5	8.400	6.500	--	--	--	--	--	--
00010	WATER TEMPERATURE (°C)	5	31.000	13.000	--	--	--	--	--	--
00080	COLOR (PLATINUM-COBALT UNITS)	5	30.000	14.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	4	11.800	8.400	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	4	123.000	100.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	31.000	27.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	7.200	6.700	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.100	2.600	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	17.000	7.900	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	2.800	1.800	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	37.000	26.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	18.000	8.600	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	13.000	6.900	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.200	<0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	7.100	3.300	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	126.000	62.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	12	109.000	10.000	76.833	109.000	98.250	79.500	67.000	10.000
00400	pH, FIELD (STANDARD pH UNITS)	13	8.200	6.400	--	8.200	7.650	7.100	6.700	6.400
00010	WATER TEMPERATURE (°C)	13	29.500	14.500	24.231	29.500	28.250	27.000	20.500	14.500
00300	OXYGEN, DISSOLVED (mg/L)	13	10.600	6.100	8.585	10.600	9.800	8.900	7.550	6.100
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	16.000	4.000	8.214	16.000	9.250	7.000	6.000	4.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	130.000	65.000	84.143	130.000	92.250	83.500	69.750	65.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	17	144.000	10.000	88.059	144.000	103.500	93.000	70.500	10.000
00400	pH, FIELD (STANDARD pH UNITS)	18	8.400	6.400	--	8.400	7.850	7.150	6.700	6.400
00010	WATER TEMPERATURE (°C)	18	31.000	13.000	23.972	31.000	28.125	27.000	20.375	13.000
00080	COLOR (PLATINUM-COBALT UNITS)	5	30.000	14.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	17	11.800	6.100	8.835	11.800	9.800	8.900	7.900	6.100
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	4	123.000	100.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	31.000	27.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	7.200	6.700	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.100	2.600	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	17.000	7.900	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	2.800	1.800	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	37.000	26.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	18.000	8.600	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	13.000	6.900	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.200	<0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	7.100	3.300	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	126.000	62.000	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	16.000	4.000	8.214	16.000	9.250	7.000	6.000	4.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	130.000	65.000	84.143	130.000	92.250	83.500	69.750	65.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 9.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 4, Falls Lake at State Highway 50 near Sandy Plain

Location.--Latitude 36°00'54", longitude 78°41'29", Wake County, at bridge on State Highway 50, and 3.3 mi south of Sandy Plain, USGS downstream order number 0208703650.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.010	<0.010	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	5	0.010	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	4	0.062	<0.050	--	--	--	--	--	--
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	5	0.051	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	4	0.120	0.010	--	--	--	--	--	--
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	5	0.120	0.020	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	5	0.890	0.480	--	--	--	--	--	--
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	5	0.380	0.210	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	5	0.900	0.500	--	--	--	--	--	--
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	5	0.500	0.300	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	5	0.900	0.500	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	5	0.050	0.020	--	--	--	--	--	--
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	5	0.030	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	4	0.010	<0.010	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	5	<0.010	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL *A*, PHYTOPLANKTON (µg/L)	5	9.700	1.100	--	--	--	--	--	--
70954	CHLOROPHYLL *B*, PHYTOPLANKTON (µg/L)	5	0.400	<0.100	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	14	0.200	<0.010	0.057*	0.200	0.120	<0.100	<0.010	<0.010
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	14	0.180	0.010	0.056	0.180	0.065	0.040	0.027	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	14	0.580	0.260	0.430	0.580	0.500	0.405	0.368	0.260
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	14	0.600	0.300	0.486	0.600	0.600	0.500	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	14	0.620	0.400	0.538	0.620	0.600	0.545	0.500	0.400
00665	PHOSPHORUS, TOTAL (mg/L as P)	14	0.060	0.020	0.041	0.060	0.050	0.040	0.030	0.020
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	14	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	14	56.000	8.000	25.571	56.000	30.500	24.500	14.500	8.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	14	52.000	7.000	24.357	52.000	30.500	22.000	12.750	7.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.010	<0.010	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	5	0.010	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	18	0.200	<0.010	0.050*	0.200	0.062	<0.050	<0.010	<0.010
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	5	0.051	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	18	0.180	0.010	0.061	0.180	0.102	0.040	0.027	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	5	0.120	0.020	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	19	0.890	0.260	0.484	0.890	0.570	0.460	0.380	0.260
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	5	0.380	0.210	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	19	0.900	0.300	0.542	0.900	0.600	0.500	0.400	0.300
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	5	0.500	0.300	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	19	0.900	0.400	0.584	0.900	0.620	0.580	0.500	0.400
00665	PHOSPHORUS, TOTAL (mg/L as P)	19	0.060	0.020	0.040	0.060	0.050	0.040	0.030	0.020
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	5	0.030	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	18	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	5	<0.010	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	5	9.700	1.100	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	5	0.400	<0.100	--	--	--	--	--	--
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	14	56.000	8.000	25.571	56.000	30.500	24.500	14.500	8.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	14	52.000	7.000	24.357	52.000	30.500	22.000	12.750	7.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 9.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 4, Falls Lake at State Highway 50 near Sandy Plain

Location.--Latitude 36°00'54", longitude 78°41'29", Wake County, at bridge on State Highway 50, and 3.3 mi south of Sandy Plain, USGS downstream order number 0208703650.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	5	470.000	40.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	5	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	5	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	5	2.000	<1.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	5	<1.000	<1.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	8.000	<1.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	5	800.000	60.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	5	2.000	<1.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	5	360.000	50.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	5	<0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	<1.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	5.000	<1.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	5	60.000	<10.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	14	600.000	<50.000	223.303*	600.000	360.000	120.000	90.000	60.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	1	<25.000	--	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	1	670.000	--	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	14	250.000	38.000	117.500	250.000	160.000	101.500	65.750	38.000
01092	ZINC, TOTAL (µg/L as Zn)	1	<10.000	--	--	--	--	--	--	--

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	19	600.000	<50.000	207.097*	600.000	360.000	120.000	70.000	40.000
01002	ARSENIC, TOTAL (µg/L as As)	5	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	5	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	6	2.000	<1.000	--	2.000	2.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	5	<1.000	<1.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	8.000	<1.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	6	800.000	60.000	376.667	800.000	702.500	300.000	112.500	60.000
01051	LEAD, TOTAL (µg/L as Pb)	5	2.000	<1.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	19	360.000	38.000	132.895	360.000	190.000	110.000	69.000	38.000
71900	MERCURY, TOTAL (µg/L as Hg)	5	<0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	<1.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	5.000	<1.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	6	60.000	<10.000	--	60.000	20.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<"

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 9.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 4, Falls Lake at State Highway 50 near Sandy Plain

Location.--Latitude 36°00'54", longitude 78°41'29", Wake County, at bridge on State Highway 50, and 3.3 mi south of Sandy Plain, USGS downstream order number 0208703650.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	5	11.000	8.300	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	1	1.000	--	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	1	0.300	--	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	1	0.500	--	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	1	0.100	--	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	11	0.001	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	11	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	10	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 9.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 4, Falls Lake at State Highway 50 near Sandy Plain

Location.--Latitude 36°00'54", longitude 78°41'29", Wake County, at bridge on State Highway 50, and 3.3 mi south of Sandy Plain, USGS downstream order number 0208703650.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-5OH), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 9.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 4, Falls Lake at State Highway 50 near Sandy Plain

Location.--Latitude 36°00'54", longitude 78°41'29", Wake County, at bridge on State Highway 50, and 3.3 mi south of Sandy Plain, USGS downstream order number 0208703650.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.130	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.060	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 10.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 5, Falls Lake at Interstate 85 near Redwood

Location.--Latitude 36°04'14", longitude 78°46'48", Durham County, at bridge on Interstate 85, 1.7 mi north of Redwood, USGS downstream order number 02086920.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	4	383.000	148.000	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	4	9.200	6.800	--	--	--	--	--	--
00010	WATER TEMPERATURE (°C)	4	30.000	11.000	--	--	--	--	--	--
00080	COLOR (PLATINUM-COBALT UNITS)	4	60.000	40.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	3	10.200	6.300	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	3	93.000	84.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	4	58.000	31.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	4	14.000	7.600	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	4	5.600	2.900	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	4	53.000	17.000	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	4	7.300	2.700	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	4	56.000	30.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	4	53.000	17.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	4	32.000	10.000	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	4	0.500	0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	4	17.000	5.600	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	4	208.000	86.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	12	270.000	68.000	127.750	270.000	180.250	102.000	74.000	68.000
00400	pH, FIELD (STANDARD pH UNITS)	12	8.600	6.400	--	8.600	8.175	6.900	6.425	6.400
00010	WATER TEMPERATURE (°C)	12	29.000	13.000	23.292	29.000	28.250	25.750	18.750	13.000
00300	OXYGEN, DISSOLVED (mg/L)	12	12.700	5.400	9.075	12.700	10.725	9.550	6.625	5.400
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	13	110.000	19.000	43.615	110.000	50.500	42.000	24.000	19.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	13	270.000	100.000	150.769	270.000	185.000	130.000	110.000	100.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	16	383.000	68.000	150.813	383.000	190.000	127.500	81.750	68.000
00400	pH, FIELD (STANDARD pH UNITS)	16	9.200	6.400	--	9.200	8.275	6.900	6.525	6.400
00010	WATER TEMPERATURE (°C)	16	30.000	11.000	23.188	30.000	28.250	25.750	18.750	11.000
00080	COLOR (PLATINUM-COBALT UNITS)	4	60.000	40.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	15	12.700	5.400	8.807	12.700	10.500	9.400	6.500	5.400
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	3	93.000	84.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	4	58.000	31.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	4	14.000	7.600	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	4	5.600	2.900	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	4	53.000	17.000	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	4	7.300	2.700	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	4	56.000	30.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	4	53.000	17.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	4	32.000	10.000	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	4	0.500	0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	4	17.000	5.600	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	4	208.000	86.000	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	13	110.000	19.000	43.615	110.000	50.500	42.000	24.000	19.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	13	270.000	100.000	150.769	270.000	185.000	130.000	110.000	100.000

Table 10.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 5, Falls Lake at Interstate 85 near Redwood

Location.--Latitude 36°04'14", longitude 78°46'48", Durham County, at bridge on Interstate 85, 1.7 mi north of Redwood, USGS downstream order number 02086920.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	3	0.070	0.020	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	4	0.070	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	3	7.600	<0.050	--	--	--	--	--	--
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	4	7.100	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	3	0.220	0.020	--	--	--	--	--	--
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	4	0.240	0.020	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	4	1.800	0.400	--	--	--	--	--	--
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	4	1.100	0.210	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	4	1.800	0.600	--	--	--	--	--	--
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	4	1.100	0.400	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	4	9.100	1.200	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	4	0.160	0.070	--	--	--	--	--	--
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	4	0.050	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	3	0.050	0.020	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	4	0.020	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	4	36.000	5.200	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	4	3.800	<0.100	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median))	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	14	2.200	<0.010	0.426*	2.200	0.450	0.300	0.100	0.020
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	14	0.280	0.010	0.071	0.280	0.100	0.045	0.030	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	14	1.200	0.280	0.589	1.200	0.783	0.550	0.343	0.280
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	14	1.200	0.300	0.657	1.200	0.825	0.600	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	14	2.800	0.580	1.085	2.800	1.300	0.850	0.735	0.580
00665	PHOSPHORUS, TOTAL (mg/L as P)	14	0.380	0.070	0.157	0.380	0.192	0.135	0.108	0.070
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	14	0.160	<0.010	0.015*	0.160	0.010	<0.010	<0.010	<0.010
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	13	98.000	3.000	50.462	98.000	82.000	46.000	22.500	3.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	13	96.000	3.000	43.077	96.000	66.000	38.000	19.500	3.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	3	0.070	0.020	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	4	0.070	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	17	7.600	<0.010	0.834*	7.600	0.490	0.420	0.100	<0.050
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	4	7.100	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	17	0.280	0.010	0.085	0.280	0.110	0.050	0.030	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	4	0.240	0.020	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	18	1.800	0.280	0.730	1.800	0.945	0.620	0.373	0.280
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	4	1.100	0.210	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	18	1.800	0.300	0.806	1.800	1.125	0.650	0.475	0.300
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	4	1.100	0.400	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	18	9.100	0.580	1.599	9.100	1.625	0.910	0.785	0.580
00665	PHOSPHORUS, TOTAL (mg/L as P)	18	0.380	0.070	0.148	0.380	0.175	0.120	0.108	0.070
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	4	0.050	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	17	0.160	<0.010	0.019*	0.160	0.020	<0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	4	0.020	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	4	36.000	5.200	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	4	3.800	<0.100	--	--	--	--	--	--
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	13	98.000	3.000	50.462	98.000	82.000	46.000	22.500	3.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	13	96.000	3.000	43.077	96.000	66.000	38.000	19.500	3.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 10.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 5, Falls Lake at Interstate 85 near Redwood

Location.--Latitude 36°04'14", longitude 78°46'48", Durham County, at bridge on Interstate 85, 1.7 mi north of Redwood, USGS downstream order number 02086920.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	4	1,300.000	140.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	4	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	4	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	4	4.000	<1.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	4	2.000	<1.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	4	3.000	1.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	4	1,700.000	510.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	4	4.000	<1.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	4	580.000	200.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	4	<0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	4	2.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	4	5.000	<1.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	4	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	4	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	4	20.000	<10.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	14	5,700.000	590.000	1,727.857	5,700.000	2,250.000	1,250.000	857.500	590.000
01027	CADMIUM, TOTAL (µg/L as Cd)	5	<2.000	<2.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	6	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	2	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	4	9.000	<2.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	2	2,600.000	1,100.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	5	<10.000	<10.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	14	680.000	140.000	335.714	680.000	402.500	315.000	200.000	140.000
71900	MERCURY, TOTAL (µg/L as Hg)	4	<0.200	<0.200	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	<10.000	<10.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	6	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	18	5,700.000	140.000	1,469.444	5,700.000	1,900.000	1,150.000	590.000	140.000
01002	ARSENIC, TOTAL (µg/L as As)	4	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	9	<2.000	<1.000	--	<2.000	<2.000	<2.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	10	4.000	<1.000	--	4.000	<25.000	<25.000	<25.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	6	2.000	<1.000	--	2.000	1.000	<50.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	8	9.000	<2.000	3.253*	9.000	3.000	3.000	1.000	1.000
01045	IRON, TOTAL (µg/L as Fe)	6	2,600.000	510.000	1,320.000	2,600.000	1,925.000	1,200.000	660.000	510.000
01051	LEAD, TOTAL (µg/L as Pb)	9	4.000	<1.000	--	4.000	1.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	18	680.000	140.000	348.333	680.000	485.000	320.000	200.000	140.000
71900	MERCURY, TOTAL (µg/L as Hg)	8	<0.200	<0.100	--	<0.200	<0.200	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	4	2.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	9	5.000	<1.000	--	5.000	1.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	4	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	4	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	10	20.000	<10.000	--	20.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 10.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 5, Falls Lake at Interstate 85 near Redwood

Location.--Latitude 36°04'14", longitude 78°46'48", Durham County, at bridge on Interstate 85, 1.7 mi north of Redwood, USGS downstream order number 02086920.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	4	16.000	7.400	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	1	4.000	--	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	1	1.200	--	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	1	0.900	--	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	1	0.600	--	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	10	0.020	<0.010	--	0.020	0.010	<0.010	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	11	0.002	<0.001	--	0.002	<0.010	<0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	1	8.000	--	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	11	0.001	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	11	0.006	<0.001	0.002*	0.006	0.002	0.001	<0.010	<0.010
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	1	0.200	--	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	11	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	1	<0.200	--	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	9	0.500	<0.200	--	0.500	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	9	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 10.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 5, Falls Lake at Interstate 85 near Redwood

Location.--Latitude 36°04'14", longitude 78°46'48", Durham County, at bridge on Interstate 85, 1.7 mi north of Redwood, USGS downstream order number 02086920.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	9	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34205	ACENAPHTHENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34200	ACENAPHTHYLENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34220	ANTHRACENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34526	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34247	BENZO(A)PYRENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34230	BENZO(B)FLUORANTHENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34521	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34242	BENZO(K)FLUORANTHENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34292	N-BUTYL BENZYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34452	PARACHLOROMETACRESOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34320	CHRYSENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
39110	DI-N-BUTYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34596	DI-N-OCTYL PHTHALATE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34336	DIETHYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34341	DIMETHYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34657	4,6-DINITRO-ORTHOCRESOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34376	FLUORANTHENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	320.000	--	--	--	--	--	--	--
34381	FLUORENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39700	HEXACHLOROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39702	HEXACHLOROBUTADIENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34396	HEXACHLOROETHANE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34408	ISOPHORONE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34433	N-NITROSODIPHENYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34696	NAPHTHALENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34447	NITROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34438	N-NITROSODIMETHYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39032	PENTACHLOROPHENOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34461	PHENANTHRENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	240.000	--	--	--	--	--	--	--
34694	PHENOL (C6H-50H), TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34469	PYRENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	280.000	--	--	--	--	--	--	--
34551	1,2,4-TRICHLOROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 10.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 5, Falls Lake at Interstate 85 near Redwood

Location.--Latitude 36°04'14", longitude 78°46'48", Durham County, at bridge on Interstate 85, 1.7 mi north of Redwood, USGS downstream order number 02086920.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT. HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34278	BIS(2-CHLOROETHOXY)METHANE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34273	BIS-2-CHLOROETHYL ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34283	BIS(2-CHLOROISOPROPYL)ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34581	2-CHLORONAPHTHALENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34586	2-CHLOROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39100	BIS(2-ETHYLHEXYL) PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34591	2-NITROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34601	2,4-DICHLOROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34606	2,4-DIMETHYLPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34616	2,4-DINITROPHENOL, TOTAL (µg/L)	1	<20.000	--	--	--	--	--	--	--
34611	2,4-DINITROTOLUENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34621	2,4,6-TRICHLOROPHENOL, TOTAL (µg/L)	1	<20.000	--	--	--	--	--	--	--
34626	2,6-DINITROTOLUENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34636	4-BROMOPHENYL ETHER, TOTAL (µg/L))	1	<5.000	--	--	--	--	--	--	--
34646	4-NITROPHENOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.140	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.300	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	0.080	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	0.060	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 11.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 6, Little Lick Creek above Secondary Road 1814 near Oak Grove

Location.--Latitude 35°59'11", longitude 78°47'58", Durham County, on right bank 300 ft upstream of bridge on Secondary Road 1814, and 1.3 mi northeast of Oak Grove, USGS downstream order number 0208700780.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	6	459.000	13.000	161.833	459.000	285.750	113.500	36.250	13.000
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	6	155.000	91.000	115.667	155.000	131.750	113.000	96.250	91.000
00400	pH, FIELD (STANDARD pH UNITS)	6	7.300	6.900	--	7.300	7.150	6.950	6.900	6.900
00010	WATER TEMPERATURE (°C)	5	21.000	11.000	--	--	--	--	--	--
00080	COLOR (PLATINUM-COBALT UNITS)	5	300.000	200.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	3	9.200	5.800	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	3	84.000	66.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	42.000	27.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	11.000	5.900	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.700	2.400	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	13.000	6.000	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	3.500	2.400	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	40.000	20.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	11.000	8.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	12.000	5.900	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.200	0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	7.500	4.300	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	95.000	85.000	--	--	--	--	--	--
80154	SUSPENDED SEDIMENT (mg/L)	4	413.000	92.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	43	100.000	0.130	6.129	23.800	4.800	2.000	1.300	0.644
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	43	551.000	69.000	315.628	536.000	460.000	302.000	192.000	74.200
00400	pH, FIELD (STANDARD pH UNITS)	43	7.500	6.600	--	7.300	7.200	7.000	6.800	6.620
00010	WATER TEMPERATURE (°C)	43	27.000	4.500	16.384	26.400	22.000	16.000	11.000	7.000
00076	TURBIDITY (NTU)	13	120.000	4.700	30.492	120.000	45.000	18.000	8.300	4.700
00300	OXYGEN, DISSOLVED (mg/L)	43	11.600	4.200	7.751	11.080	9.500	6.900	6.400	5.320
00310	BOD 5-DAY AT 20 °C (mg/L)	12	5.400	1.000	2.092	5.400	2.600	1.750	1.300	1.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	11	75.000	44.000	63.818	75.000	73.000	70.000	51.000	44.000
00916	CALCIUM, TOTAL (mg/L as Ca)	1	11.000	--	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	3.800	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	12.000	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L as $CaCO_3$)	41	64.000	7.000	43.610	62.000	54.000	44.000	36.500	17.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	13	60.000	5.000	23.231	60.000	31.000	19.000	12.000	5.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	13	370.000	160.000	286.154	370.000	360.000	300.000	220.000	160.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	49	459.000	0.130	25.194	177.000	8.150	2.300	1.400	0.710
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	49	551.000	69.000	291.143	536.000	448.000	280.000	147.000	80.500
00400	pH, FIELD (STANDARD pH UNITS)	49	7.500	6.600	--	7.300	7.200	7.000	6.900	6.650
00010	WATER TEMPERATURE (°C)	48	27.000	4.500	16.406	26.275	21.875	16.000	11.000	7.000
00080	COLOR (PLATINUM-COBALT UNITS)	5	300.000	200.000	--	--	--	--	--	--
00076	TURBIDITY (NTU)	13	120.000	4.700	30.492	120.000	45.000	18.000	8.300	4.700
00300	OXYGEN, DISSOLVED (mg/L)	46	11.600	4.200	7.759	10.990	9.425	7.050	6.375	5.335
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	3	84.000	66.000	--	--	--	--	--	--
00310	BOD 5-DAY AT 20 °C (mg/L)	12	5.400	1.000	2.092	5.400	2.600	1.750	1.300	1.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	16	75.000	27.000	54.125	75.000	71.750	55.500	35.250	27.000
00916	CALCIUM, TOTAL (mg/L as Ca)	1	11.000	--	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	11.000	5.900	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	3.800	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.700	2.400	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	12.000	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	13.000	6.000	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	3.500	2.400	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	40.000	20.000	--	--	--	--	--	--
00431	ALKALINITY (mg/L as $CaCO_3$)	41	64.000	7.000	43.610	62.000	54.000	44.000	36.500	17.000
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	11.000	8.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	12.000	5.900	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.200	0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	7.500	4.300	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	95.000	85.000	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	13	60.000	5.000	23.231	60.000	31.000	19.000	12.000	5.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	13	370.000	160.000	286.154	370.000	360.000	300.000	220.000	160.000
80154	SUSPENDED SEDIMENT (mg/L)	4	413.000	92.000	--	--	--	--	--	--

Table 11.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 6, Little Lick Creek above Secondary Road 1814 near Oak Grove

Location.--Latitude 35°59'11", longitude 78°47'58", Durham County, on right bank 300 ft upstream of bridge on Secondary Road 1814, and 1.3 mi northeast of Oak Grove, USGS downstream order number 0208700780.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	2	0.080	0.020	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	2	0.020	0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	2	0.550	0.270	--	--	--	--	--	--
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	2	0.580	0.280	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	2	0.150	0.070	--	--	--	--	--	--
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	2	0.140	0.070	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	3	0.850	0.660	--	--	--	--	--	--
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	2	0.630	0.460	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	3	1.000	0.800	--	--	--	--	--	--
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	2	0.700	0.600	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	3	1.500	1.100	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	3	0.180	0.120	--	--	--	--	--	--
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	2	0.090	0.070	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	2	0.150	0.040	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	2	0.050	0.030	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	41	24.000	0.180	9.372	22.900	16.000	7.500	2.750	0.353
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	42	0.230	0.030	0.087	0.215	0.110	0.080	0.050	0.030
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	42	1.600	0.350	0.765	1.540	0.930	0.750	0.555	0.412
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	42	1.800	0.400	0.852	1.640	1.000	0.850	0.600	0.500
00600	NITROGEN, TOTAL (mg/L as N)	41	25.000	0.970	10.011	23.850	17.000	8.000	3.600	0.998
00665	PHOSPHORUS, TOTAL (mg/L as P)	42	3.200	0.070	0.212	0.291	0.170	0.130	0.108	0.081
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	36	0.100	0.010	0.039	0.100	0.050	0.030	0.020	0.010

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	2	0.080	0.020	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	2	0.020	0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	43	24.000	0.180	8.955	22.800	16.000	7.300	2.400	0.270
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	2	0.580	0.280	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	44	0.230	0.030	0.088	0.213	0.110	0.080	0.050	0.030
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	2	0.140	0.070	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	45	1.600	0.350	0.764	1.480	0.920	0.750	0.565	0.413
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	2	0.630	0.460	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	45	1.800	0.400	0.853	1.580	1.000	0.800	0.650	0.500
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	2	0.700	0.600	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	44	25.000	0.970	9.432	23.700	16.500	6.900	3.050	1.016
00665	PHOSPHORUS, TOTAL (mg/L as P)	45	3.200	0.070	0.208	0.282	0.175	0.130	0.110	0.083
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	2	0.090	0.070	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	38	0.150	0.010	0.042	0.103	0.052	0.035	0.020	0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	2	0.050	0.030	--	--	--	--	--	--

Table 11.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 6, Little Lick Creek above Secondary Road 1814 near Oak Grove

Location.--Latitude 35°59'11", longitude 78°47'58", Durham County, on right bank 300 ft upstream of bridge on Secondary Road 1814, and 1.3 mi northeast of Oak Grove, USGS downstream order number 0208700780.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	4	5,800.000	1,700.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	3	1.000	1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	4	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	4	5.000	2.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	4	4.000	2.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	4	7.000	4.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	4	3,700.000	2,100.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	4	14.000	5.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	4	610.000	160.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	4	0.200	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	4	<1.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	4	6.000	4.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	4	2.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	4	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	4	40.000	20.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	1	220.000	--	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	13	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	13	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	13	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	1	<50.000	--	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	13	10.000	<10.000	7.204*	10.000	8.000	7.000	5.000	<10.000
01045	IRON, TOTAL (µg/L as Fe)	2	1,200.000	1,000.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	13	18.000	<10.000	--	18.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	2	160.000	110.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	13	10.000	<10.000	--	10.000	<10.000	<10.000	<10.000	<10.000
01077	01077 SILVER, TOTAL (µg/L as Ag)	1	<5.000	--	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	13	40.000	<10.000	16.086*	40.000	20.000	10.000	10.000	<10.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	5	5,800.000	220.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	16	1.000	<10.000	--	1.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	17	<2.000	<1.000	--	<2.000	<2.000	<2.000	<2.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	17	5.000	<25.000	--	5.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	5	4.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	17	10.000	<10.000	6.683*	10.000	8.000	6.000	5.000	<10.000
01045	IRON, TOTAL (µg/L as Fe)	6	3,700.000	1,000.000	2,416.667	3,700.000	3,625.000	2,500.000	1,150.000	1,000.000
01051	LEAD, TOTAL (µg/L as Pb)	17	18.000	<10.000	7.666*	18.000	5.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	6	610.000	110.000	285.000	610.000	475.000	200.000	147.500	110.000
71900	MERCURY, TOTAL (µg/L as Hg)	17	0.200	<0.100	--	0.200	<0.200	<0.200	<0.200	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	4	<1.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	17	10.000	<10.000	5.162*	10.000	4.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	4	2.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<5.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	17	40.000	<10.000	18.853*	40.000	30.000	20.000	10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 11.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 6, Little Lick Creek above Secondary Road 1814 near Oak Grove

Location.--Latitude 35°59'11", longitude 78°47'58", Durham County, on right bank 300 ft upstream of bridge on Secondary Road 1814, and 1.3 mi northeast of Oak Grove, USGS downstream order number 0208700780.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	5	18.000	14.000	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	8	0.210	0.010	0.058	0.210	0.095	0.030	0.010	0.010
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	11	0.004	<0.001	0.002*	0.004	0.002	0.001	<0.010	<0.001
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	11	0.002	<0.001	--	0.002	<0.010	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	11	0.027	<0.001	0.007*	0.027	0.015	0.001	<0.010	<0.010
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	8	0.020	<0.010	--	0.020	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	11	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	0.900	<0.200	--	0.900	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	1.300	<0.200	--	1.300	0.600	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	4.700	<0.200	1.667*	4.700	1.700	1.300	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	2.200	<0.200	0.872*	2.200	1.300	0.400	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 11.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 6, Little Lick Creek above Secondary Road 1814 near Oak Grove

Location.--Latitude 35°59'11", longitude 78°47'58", Durham County, on right bank 300 ft upstream of bridge on Secondary Road 1814, and 1.3 mi northeast of Oak Grove, USGS downstream order number 0208700780.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZAN-THRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 11.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 6, Little Lick Creek above Secondary Road 1814 near Oak Grove

Location.--Latitude 35°59'11", longitude 78°47'58", Durham County, on right bank 300 ft upstream of bridge on Secondary Road 1814, and 1.3 mi northeast of Oak Grove, USGS downstream order number 0208700780.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	3	0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	4	0.060	<0.050	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED ((µg/L)	4	<0.200	<0.200	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 12.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 7, Ellerbe Creek near Gorman

Location.--Latitude 36°03'33", longitude 78°49'58", Durham County, at bridge on Secondary Road 1636, 1.6 mi northwest of Gorman, and 3 mi upstream of mouth, USGS downstream order number 02086849.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	1	368.000	--	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	1	7.100	--	--	--	--	--	--	--
00010	WATER TEMPERATURE (°C)	1	21.000	--	--	--	--	--	--	--
00080	COLOR (PLATINUM-COBALT UNITS)	1	45.000	--	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	1	6.900	--	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	1	78.000	--	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	1	74.000	--	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	1	19.000	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	1	6.500	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	1	44.000	--	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	1	6.600	--	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	1	68.000	--	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	1	30.000	--	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	1	31.000	--	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	1	0.700	--	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	1	9.200	--	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	1	226.000	--	--	--	--	--	--	--
80154	SUSPENDED SEDIMENT (mg/L)	1	21.000	--	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	7	370.000	8.100	72.100	370.000	44.000	17.000	8.600	8.100
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	40	610.000	98.000	371.975	549.600	487.250	383.500	266.250	110.350
00400	pH, FIELD (STANDARD pH UNITS)	40	7.400	6.400	--	7.400	7.300	7.200	7.000	6.605
00010	WATER TEMPERATURE (°C)	41	28.000	5.000	16.817	27.000	22.500	16.000	11.500	6.650
00076	TURBIDITY (NTU)	13	38.000	2.700	12.338	38.000	15.500	11.000	5.900	2.700
00300	OXYGEN, DISSOLVED (mg/L)	41	11.600	5.200	7.551	10.710	9.100	7.200	6.250	5.210
00310	BOD 5-DAY AT 20 °C (mg/L)	12	6.700	0.700	3.075	6.700	4.775	2.500	1.850	0.700
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	11	74.000	46.000	61.455	74.000	73.000	59.000	55.000	46.000
00916	CALCIUM, TOTAL (mg/L as Ca)	2	17.000	16.000	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	5.500	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	26.000	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L as $CaCO_3$)	40	82.000	6.000	52.425	81.850	65.000	56.500	37.750	20.050
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	13	83.000	1.000	15.308	83.000	16.500	9.000	5.000	1.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	13	370.000	210.000	316.154	370.000	360.000	330.000	275.000	210.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	7	370.000	8.100	72.100	370.000	44.000	17.000	8.600	8.100
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	41	610.000	98.000	371.878	549.200	484.500	382.000	272.500	110.700
00400	pH, FIELD (STANDARD pH UNITS)	41	7.400	6.400	--	7.400	7.300	7.200	7.000	6.610
00010	WATER TEMPERATURE (°C)	42	28.000	5.000	16.917	27.000	22.500	16.500	11.750	6.725
00080	COLOR (PLATINUM-COBALT UNITS)	1	45.000	--	--	--	--	--	--	--
00076	TURBIDITY (NTU)	13	38.000	2.700	12.338	38.000	15.500	11.000	5.900	2.700
00300	OXYGEN, DISSOLVED (mg/L)	42	11.600	5.200	7.536	10.665	9.000	7.200	6.275	5.215
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	1	78.000	--	--	--	--	--	--	--
00310	BOD 5-DAY AT 20 °C (mg/L)	12	6.700	0.700	3.075	6.700	4.775	2.500	1.850	0.700
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	12	74.000	46.000	62.500	74.000	73.000	60.500	55.500	46.000
00916	CALCIUM, TOTAL (mg/L as Ca)	2	17.000	16.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	1	19.000	--	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	5.500	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	1	6.500	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	26.000	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	1	44.000	--	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	1	6.600	--	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	1	68.000	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L as $CaCO_3$)	40	82.000	6.000	52.425	81.850	65.000	56.500	37.750	20.050
00945	SULFATE, DISSOLVED (mg/L as SO_4)	1	30.000	--	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	1	31.000	--	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	1	0.700	--	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	1	9.200	--	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	1	226.000	--	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	13	83.000	1.000	15.308	83.000	16.500	9.000	5.000	1.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	13	370.000	210.000	316.154	370.000	360.000	330.000	275.000	210.000
80154	SUSPENDED SEDIMENT (mg/L)	1	21.000	--	--	--	--	--	--	--

Table 12.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 7, Ellerbe Creek near Gorman

Location.--Latitude 36°03'33", longitude 78°49'58", Durham County, at bridge on Secondary Road 1636, 1.6 mi northwest of Gorman, and 3 mi upstream of mouth, USGS downstream order number 02086849.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	1	0.060	--	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	1	0.060	--	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	1	9.300	--	--	--	--	--	--	--
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	1	9.300	--	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	1	0.130	--	--	--	--	--	--	--
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	1	0.120	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	1	1.300	--	--	--	--	--	--	--
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	1	0.880	--	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	1	1.400	--	--	--	--	--	--	--
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	1	1.000	--	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	1	11.000	--	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	1	0.790	--	--	--	--	--	--	--
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	1	0.600	--	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	1	0.630	--	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	1	0.560	--	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	40	26.000	1.600	14.115	24.000	19.000	15.000	9.400	1.775
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	40	2.000	0.040	0.319	1.960	0.273	0.135	0.082	0.041
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	39	2.700	0.500	1.197	2.300	1.400	1.100	0.780	0.590
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	39	4.700	0.700	1.526	4.200	1.600	1.200	1.000	0.800
00600	NITROGEN, TOTAL (mg/L as N)	39	27.000	2.300	15.679	26.000	21.000	17.000	10.000	2.600
00665	PHOSPHORUS, TOTAL (mg/L as P)	40	3.300	0.180	0.939	2.990	1.175	0.730	0.380	0.210
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	36	2.900	0.080	0.823	2.645	1.175	0.625	0.272	0.089

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	1	0.060	--	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	1	0.060	--	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	41	26.000	1.600	13.998	24.000	19.000	15.000	9.350	1.850
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	1	9.300	--	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	41	2.000	0.040	0.314	1.920	0.245	0.130	0.085	0.041
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	1	0.120	--	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	40	2.700	0.500	1.200	2.300	1.400	1.100	0.790	0.592
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	1	0.880	--	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	40	4.700	0.700	1.523	4.160	1.600	1.200	1.000	0.800
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	1	1.000	--	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	40	27.000	2.300	15.563	25.950	21.000	16.500	10.250	2.680
00665	PHOSPHORUS, TOTAL (mg/L as P)	41	3.300	0.180	0.936	2.980	1.150	0.740	0.380	0.210
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	1	0.600	--	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	37	2.900	0.080	0.818	2.630	1.150	0.630	0.275	0.089
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	1	0.560	--	--	--	--	--	--	--

Table 12.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 7, Ellerbe Creek near Gorman

Location.--Latitude 36°03'33", longitude 78°49'58", Durham County, at bridge on Secondary Road 1636, 1.6 mi northwest of Gorman, and 3 mi upstream of mouth, USGS downstream order number 02086849.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	1	440.000	--	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	1	<1	--	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	1	<1	--	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	1	1.000	--	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	1	2.000	--	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	1	4.000	--	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	1	820.000	--	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	1	3.000	--	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	1	140.000	--	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	1	<0.1	--	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	1	7.000	--	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	1	<1	--	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	1	<1	--	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	1	<1	--	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	1	30.000	--	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	2	950.000	410.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	13	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	12	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	12	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	2	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	12	15.000	<10.000	9.398*	15.000	11.000	8.000	7.000	6.000
01045	IRON, TOTAL (µg/L as Fe)	3	1,600.000	520.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	12	14.000	<10.000	--	14.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	2	150.000	68.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	12	<50.000	<10.000	--	<50.000	<10.000	<10.000	<10.000	<10.000
01077	SILVER, TOTAL (µg/L as Ag)	2	<25.000	<5.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	12	80.000	<10.000	37.460*	80.000	40.000	30.000	10.000	<10.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	3	950.000	410.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	14	<10.000	<1.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	13	<2.000	<1.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	13	1.000	<25.000	--	1.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	3	2.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	13	15.000	<10.000	8.925*	15.000	11.000	8.000	7.000	4.000
01045	IRON, TOTAL (µg/L as Fe)	4	1,600.000	520.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	13	14.000	<10.000	--	14.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	3	150.000	68.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	14	<0.200	<0.100	--	<0.200	<0.200	<0.200	<0.200	<0.200
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	1	7.000	--	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	13	<50.000	<1.000	--	<50.000	<10.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	1	<1.000	--	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	3	<25.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	13	80.000	<10.000	36.975*	80.000	40.000	30.000	30.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 12.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 7, Ellerbe Creek near Gorman

Location.--Latitude 36°03'33", longitude 78°49'58", Durham County, at bridge on Secondary Road 1636, 1.6 mi northwest of Gorman, and 3 mi upstream of mouth, USGS downstream order number 02086849.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	1	11.000	--	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	8	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	8	0.100	<0.100	--	0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	1	8.000	--	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	1	0.700	--	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	1	0.200	--	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	7	0.200	0.020	0.096	0.200	0.140	0.080	0.030	0.020
39571	DIAZINON, BTM (µg/kg)	1	0.400	--	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	8	0.006	<0.001	0.003*	0.006	0.004	0.003	<0.010	<0.010
39383	DIELDRIN, BTM (µg/kg)	1	0.600	--	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	1	3.000	--	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	8	0.003	<0.001	--	0.003	0.002	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.200	--	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	8	0.002	<0.001	--	0.002	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	8	0.160	<0.001	0.041*	0.160	0.039	0.023	0.010	0.010
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	8	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	3.200	0.200	1.650	3.200	2.250	1.600	1.050	0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	1.000	<0.200	0.408*	1.000	0.400	0.200	0.200	0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	0.700	<0.200	--	0.700	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	0.600	<0.200	--	0.600	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 12.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 7, Ellerbe Creek near Gorman

Location.--Latitude 36°03'33", longitude 78°49'58", Durham County, at bridge on Secondary Road 1636, 1.6 mi northwest of Gorman, and 3 mi upstream of mouth, USGS downstream order number 02086849.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 12.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 7, Ellerbe Creek near Gorman

Location.--Latitude 36°03'33", longitude 78°49'58", Durham County, at bridge on Secondary Road 1636, 1.6 mi northwest of Gorman, and 3 mi upstream of mouth, USGS downstream order number 02086849.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
38932	CHLORPYRIFOS, TOTAL (µg/L)	2	0.030	0.030	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39023	PHORATE, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39040	DEF, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	2	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.860	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	0.090	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	0.070	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 13.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 8, Eno River near Weaver

Location.--Latitude 36°04'19", longitude 78°51'47", Durham County, at bridge on Secondary Road 1004, 1.3 mi above Little River, and 1.5 mi northeast of Weaver, USGS downstream order number 02085079.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	52	1,390.000	5.300	137.617	500.650	150.250	65.500	27.250	8.530
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	50	604.000	60.000	191.580	404.500	226.500	161.000	110.000	87.100
00400	pH, FIELD (STANDARD pH UNITS)	52	7.600	5.900	--	7.600	7.275	7.000	6.800	6.295
00010	WATER TEMPERATURE (°C)	51	27.000	4.000	15.676	25.000	22.500	15.500	9.000	4.800
00080	COLOR (PLATINUM-COBALT UNITS)	50	200.000	12.000	57.880	139.000	68.750	51.000	30.000	14.100
00300	OXYGEN, DISSOLVED (mg/L)	49	13.200	5.600	9.084	12.850	10.900	8.900	7.100	6.050
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	47	109.000	69.000	89.213	104.600	96.000	90.000	81.000	72.200
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	50	66.000	18.000	35.980	59.600	40.000	35.500	28.000	23.100
00915	CALCIUM, DISSOLVED (mg/L as Ca)	50	19.000	4.600	9.140	17.350	10.250	8.500	6.875	5.575
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	50	4.900	1.700	3.186	4.490	3.725	3.000	2.675	2.255
00930	SODIUM, DISSOLVED (mg/L as Na)	50	69.000	4.000	21.228	54.250	25.750	17.000	9.850	6.055
00935	POTASSIUM, DISSOLVED (mg/L as K)	50	6.600	0.100	2.794	5.925	3.475	2.600	1.700	1.500
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	50	61.000	15.000	33.060	53.000	39.250	33.000	25.000	19.550
00945	SULFATE, DISSOLVED (mg/L as SO_4)	50	110.000	5.300	28.628	76.900	35.500	23.500	14.500	7.145
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	50	38.000	4.200	13.634	35.350	16.000	10.500	8.075	5.705
00950	FLUORIDE, DISSOLVED (mg/L as F)	50	0.400	<0.100	0.163*	0.400	0.200	0.100	0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	50	14.000	2.300	10.356	14.000	12.000	11.000	9.375	4.480
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	50	246.000	48.000	115.280	229.900	135.250	100.000	71.000	51.650
38260	DETERGENTS, MBAS (mg/L)	24	0.120	0.020	0.050	0.110	0.050	0.050	0.040	0.023
80154	SUSPENDED SEDIMENT (mg/L)	46	233.000	1.000	29.804	136.350	33.000	11.500	5.750	2.000

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	42	561.000	2.900	99.736	358.050	130.500	42.500	12.750	5.785
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	42	495.000	40.000	185.476	471.450	238.500	167.000	98.000	61.100
00400	pH, FIELD (STANDARD pH UNITS)	42	7.800	6.600	--	7.585	7.400	7.200	7.000	6.600
00010	WATER TEMPERATURE (°C)	42	28.000	3.000	16.083	27.850	22.125	14.750	11.000	4.800
00076	TURBIDITY (NTU)	41	210.000	2.900	19.641	70.700	19.000	12.000	7.300	3.340
00300	OXYGEN, DISSOLVED (mg/L)	42	14.200	4.000	8.698	12.280	10.650	8.750	6.900	5.120
00310	BOD 5-DAY AT 20 °C (mg/L)	40	4.700	0.200	1.415	3.860	1.675	1.200	0.900	0.405
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	12	67.000	26.000	41.250	67.000	49.000	38.500	31.750	26.000
00916	CALCIUM, TOTAL (mg/L as Ca)	2	6.500	5.000	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	2.200	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	5.200	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L as $CaCO_3$)	41	60.000	3.000	35.098	55.800	45.500	36.000	24.000	15.300
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	41	450.000	1.000	24.073	111.800	16.000	7.000	4.000	1.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	41	590.000	3.000	164.195	329.000	190.000	150.000	100.000	84.300

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 13.--*Statistical summary of water-quality data, October 1988 through September 1992--Continued*

Site 8, Eno River near Weaver

Location.--Latitude 36°04'19", longitude 78°51'47", Durham County, at bridge on Secondary Road 1004, 1.3 mi above Little River, and 1.5 mi northeast of Weaver, USGS downstream order number 02085079.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS (Continued)

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	94	1,390.000	2.900	120.691	420.500	135.250	54.000	23.500	7.000
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	92	604.000	40.000	188.793	420.500	233.250	161.000	105.500	74.300
00400	pH, FIELD (STANDARD pH UNITS)	94	7.800	5.900	--	7.600	7.300	7.100	6.900	6.475
00010	WATER TEMPERATURE (°C)	93	28.000	3.000	15.860	26.650	22.500	15.500	10.000	4.850
00080	COLOR (PLATINUM-COBALT UNITS)	50	200.000	12.000	57.880	139.000	68.750	51.000	30.000	14.100
00076	TURBIDITY (NTU)	41	210.000	2.900	19.641	70.700	19.000	12.000	7.300	3.340
00300	OXYGEN, DISSOLVED (mg/L)	91	14.200	4.000	8.905	12.480	10.800	8.800	7.000	5.860
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	47	109.000	69.000	89.213	104.600	96.000	90.000	81.000	72.200
00310	BOD 5-DAY AT 20 °C (mg/L)	40	4.700	0.200	1.415	3.860	1.675	1.200	0.900	0.405
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	62	67.000	18.000	37.000	63.400	42.000	36.000	28.000	24.150
00916	CALCIUM, TOTAL (mg/L as Ca)	2	6.500	5.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	50	19.000	4.600	9.140	17.350	10.250	8.500	6.875	5.575
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	2.200	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	50	4.900	1.700	3.186	4.490	3.725	3.000	2.675	2.255
00929	SODIUM, TOTAL (mg/L as Na)	1	5.200	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	50	69.000	4.000	21.228	54.250	25.750	17.000	9.850	6.055
00935	POTASSIUM, DISSOLVED (mg/L as K)	50	6.600	0.100	2.794	5.925	3.475	2.600	1.700	1.500
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	50	61.000	15.000	33.060	53.000	39.250	33.000	25.000	19.550
00431	ALKALINITY (mg/L as $CaCO_3$)	41	60.000	3.000	35.098	55.800	45.500	36.000	24.000	15.300
00945	SULFATE, DISSOLVED (mg/L as SO_4)	50	110.000	5.300	28.628	76.900	35.500	23.500	14.500	7.145
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	50	38.000	4.200	13.634	35.350	16.000	10.500	8.075	5.705
00950	FLUORIDE, DISSOLVED (mg/L as F)	50	0.400	<0.100	0.163*	0.400	0.200	0.100	0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	50	14.000	2.300	10.356	14.000	12.000	11.000	9.375	4.480
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	50	246.000	48.000	115.280	229.900	135.250	100.000	71.000	51.650
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	41	450.000	1.000	24.073	111.800	16.000	7.000	4.000	1.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	41	590.000	3.000	164.195	329.000	190.000	150.000	100.000	84.300
38260	DETERGENTS, MBAS (mg/L)	24	0.120	0.020	0.050	0.110	0.050	0.050	0.040	0.023
80154	SUSPENDED SEDIMENT (mg/L)	46	233.000	1.000	29.804	136.350	33.000	11.500	5.750	2.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 13.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 8, Eno River near Weaver

Location.--Latitude 36°04'19", longitude 78°51'47", Durham County, at bridge on Secondary Road 1004, 1.3 mi above Little River, and 1.5 mi northeast of Weaver, USGS downstream order number 02085079.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	47	0.110	<0.010	0.022*	0.060	0.030	0.020	0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	25	0.070	<0.010	0.022*	0.050	0.030	0.020	0.010	<0.010
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	47	9.100	0.230	1.273	3.060	1.700	0.860	0.500	0.300
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	49	9.200	0.100	1.327	3.000	1.750	0.910	0.500	0.315
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	47	0.120	0.010	0.051	0.116	0.070	0.050	0.030	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	49	0.130	0.010	0.050	0.115	0.065	0.040	0.030	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	48	1.900	0.230	0.498	1.000	0.578	0.445	0.350	0.234
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	41	1.400	0.090	0.482	0.932	0.535	0.460	0.375	0.250
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	51	1.900	<0.200	0.534*	1.100	0.600	0.500	0.400	<0.200
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	44	1.400	0.200	0.518	0.975	0.575	0.500	0.400	0.225
00600	NITROGEN, TOTAL (mg/L as N)	47	10.000	0.700	1.951	3.700	2.600	1.500	1.200	0.740
00665	PHOSPHORUS, TOTAL (mg/L as P)	51	1.100	0.010	0.103	0.188	0.110	0.070	0.050	0.020
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	49	1.000	0.010	0.078	0.180	0.085	0.050	0.030	0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	47	0.950	0.010	0.072	0.156	0.070	0.050	0.030	0.020
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	49	0.880	<0.010	0.062*	0.130	0.060	0.040	0.020	<0.010

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	42	4.900	0.310	1.350	4.135	2.050	0.915	0.470	0.353
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	42	0.150	0.010	0.058	0.130	0.080	0.050	0.030	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	42	0.770	0.170	0.383	0.733	0.452	0.350	0.280	0.182
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	42	0.800	0.200	0.440	0.785	0.525	0.400	0.300	0.200
00600	NITROGEN, TOTAL (mg/L as N)	42	5.400	0.610	1.790	4.720	2.625	1.300	0.828	0.650
00665	PHOSPHORUS, TOTAL (mg/L as P)	42	0.520	0.030	0.107	0.285	0.130	0.080	0.060	0.032
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	35	0.230	<0.010	0.044*	0.150	0.050	0.030	0.010	<0.010

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	47	0.110	<0.010	0.022*	0.060	0.030	0.020	0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	25	0.070	<0.010	0.022*	0.050	0.030	0.020	0.010	<0.010
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	89	9.100	0.230	1.309	3.150	1.800	0.890	0.500	0.330
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	49	9.200	0.100	1.327	3.000	1.750	0.910	0.500	0.315
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	89	0.150	0.010	0.054	0.120	0.070	0.050	0.030	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	49	0.130	0.010	0.050	0.115	0.065	0.040	0.030	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	90	1.900	0.170	0.444	0.759	0.533	0.370	0.300	0.230
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	41	1.400	0.090	0.482	0.932	0.535	0.460	0.375	0.250
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	93	1.900	0.200	0.491	0.800	0.600	0.400	0.400	0.200
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	44	1.400	0.200	0.518	0.975	0.575	0.500	0.400	0.225
00600	NITROGEN, TOTAL (mg/L as N)	89	10.000	0.610	1.875	3.700	2.600	1.500	0.900	0.670
00665	PHOSPHORUS, TOTAL (mg/L as P)	93	1.100	0.010	0.105	0.200	0.115	0.080	0.060	0.027
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	49	1.000	0.010	0.078	0.180	0.085	0.050	0.030	0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	82	0.950	0.010	0.060	0.146	0.060	0.040	0.020	0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	49	0.880	<0.010	0.062*	0.130	0.060	0.040	0.020	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 13.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 8, Eno River near Weaver

Location.--Latitude 36°04'19", longitude 78°51'47", Durham County, at bridge on Secondary Road 1004, 1.3 mi above Little River, and 1.5 mi northeast of Weaver, USGS downstream order number 02085079.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	19	2,700.000	80.000	674.211	2,700.000	630.000	370.000	220.000	80.000
01002	ARSENIC, TOTAL (µg/L as As)	19	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	19	2.000	<1.000	--	2.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	19	3.000	<1.000	0.918*	3.000	1.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	19	3.000	<1.000	0.971*	3.000	1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	19	15.000	2.000	4.737	15.000	6.000	4.000	3.000	2.000
01045	IRON, TOTAL (µg/L as Fe)	19	4,000.000	350.000	1,215.263	4,000.000	1,300.000	790.000	740.000	350.000
01051	LEAD, TOTAL (µg/L as Pb)	19	7.000	<1.000	2.592*	7.000	3.000	2.000	1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	19	510.000	50.000	113.158	510.000	120.000	80.000	60.000	50.000
71900	MERCURY, TOTAL (µg/L as Hg)	19	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	19	6.000	<1.000	1.134*	6.000	1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	19	6.000	<1.000	2.288*	6.000	3.000	2.000	1.000	1.000
01147	SELENIUM, TOTAL (µg/L as Se)	19	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	18	2.000	<1.000	--	2.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	19	30.000	<10.000	13.151*	30.000	20.000	10.000	<10.000	<10.000

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	2	2,400.000	100.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	13	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	12	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	12	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	2	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	12	6.000	<2.000	2.880*	6.000	4.000	2.000	<2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	3	2,200.000	590.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	12	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	2	42.000	41.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	12	<50.000	<10.000	--	<50.000	<10.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	1	<5.000	--	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	2	<25.000	<5.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	12	10.000	<10.000	--	10.000	10.000	<10.000	<10.000	<10.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	21	2,700.000	80.000	729.048	2,690.000	665.000	370.000	200.000	82.000
01002	ARSENIC, TOTAL (µg/L as As)	32	<10.000	<1.000	--	<10.000	<10.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	31	2.000	<1.000	--	<2.000	<2.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	31	3.000	<1.000	0.889*	3.000	<25.000	<25.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	21	3.000	<1.000	0.953*	2.000	1.000	<50.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	31	15.000	<2.000	4.032*	9.000	5.000	3.000	2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	22	4,000.000	350.000	1,203.182	3,970.000	1,325.000	780.000	685.000	366.500
01051	LEAD, TOTAL (µg/L as Pb)	31	7.000	<1.000	2.551*	6.000	3.000	<10.000	<10.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	21	510.000	41.000	106.333	479.000	120.000	70.000	55.000	41.000
71900	MERCURY, TOTAL (µg/L as Hg)	32	<0.200	<0.100	--	<0.200	<0.200	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	19	6.000	<1.000	1.134*	6.000	1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	31	6.000	<1.000	2.246*	5.000	2.000	1.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	20	<5.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	20	2.000	<1.000	--	<25.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	31	30.000	<10.000	10.439*	30.000	10.000	10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 13.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 8, Eno River near Weaver

Location.--Latitude 36°04'19", longitude 78°51'47", Durham County, at bridge on Secondary Road 1004, 1.3 mi above Little River, and 1.5 mi northeast of Weaver, USGS downstream order number 02085079.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	50	22.000	3.300	6.172	9.735	6.650	5.800	5.000	3.400
39330	ALDRIN, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	14	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	1	1.000	--	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	1	0.100	--	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	11	0.130	<0.010	--	0.130	0.030	<0.010	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	14	0.001	<0.001	--	0.001	0.001	<0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	14	0.002	<0.001	--	0.002	<0.010	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	14	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	14	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	14	0.001	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	14	0.005	<0.001	0.001*	0.005	0.001	<0.010	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	11	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	14	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	14	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	14	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	14	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	9	0.300	<0.200	--	0.300	0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	9	<0.300	<0.200	--	<0.300	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 13.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 8, Eno River near Weaver

Location.--Latitude 36°04'19", longitude 78°51'47", Durham County, at bridge on Secondary Road 1004, 1.3 mi above Little River, and 1.5 mi northeast of Weaver, USGS downstream order number 02085079.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 13.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 8, Eno River near Weaver

Location.--Latitude 36°04'19", longitude 78°51'47", Durham County, at bridge on Secondary Road 1004, 1.3 mi above Little River, and 1.5 mi northeast of Weaver, USGS downstream order number 02085079.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	5	0.020	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	2	0.060	<0.050	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	2	<0.050	<0.050	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	2	<0.050	<0.050	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	2	<0.050	<0.050	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	2	<0.050	<0.050	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	2	<0.050	<0.050	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	2	<0.050	<0.050	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	2	0.090	0.080	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	2	<0.050	<0.050	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	2	<0.050	<0.050	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	2	<0.050	<0.050	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 14.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 9, Eno River near Durham

Location.--Latitude 36°04'20", longitude 78°454'30", Durham County, on right bank 275 ft downstream from bridge on U.S. Highway 501, 0.2 mi downstream from Crooked Creek, and 5 mi north of Durham, USGS downstream order number 02085070.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENT

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	1	24.000	--	--	--	--	--	--	--
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	1	270.000	--	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	1	7.500	--	--	--	--	--	--	--
00010	WATER TEMPERATURE (°C)	1	24.000	--	--	--	--	--	--	--
00080	COLOR (PLATINUM-COBALT UNITS)	1	23.000	--	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	1	7.500	--	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	1	90.000	--	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	1	33.000	--	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	1	7.800	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	1	3.200	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	1	38.000	--	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	1	3.000	--	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	1	43.000	--	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	1	60.000	--	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	1	7.800	--	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	1	<0.100	--	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	1	14.000	--	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	1	160.000	--	--	--	--	--	--	--
80154	SUSPENDED SEDIMENT (mg/L)	1	6.000	--	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	43	547.000	3.100	105.886	395.000	131.000	42.000	13.000	5.880
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	43	1,220.000	52.000	166.419	418.600	173.000	129.000	91.000	65.200
00400	pH, FIELD (STANDARD pH UNITS)	43	7.900	6.400	--	7.780	7.500	7.300	7.000	6.620
00010	WATER TEMPERATURE (°C)	43	28.000	2.000	16.140	27.800	22.500	15.000	11.000	4.800
00076	TURBIDITY (NTU)	42	100.000	2.000	15.202	64.000	18.000	10.500	5.825	2.975
00300	OXYGEN, DISSOLVED (mg/L)	43	12.400	3.400	9.358	12.160	11.200	9.400	7.900	6.320
00310	BOD 5-DAY AT 20 °C (mg/L)	39	5.300	0.300	1.385	3.200	1.700	1.200	0.800	0.300
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	12	55.000	25.000	35.750	55.000	42.250	36.000	27.250	25.000
00916	CALCIUM, TOTAL (mg/L as Ca)	2	5.600	5.600	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	4.200	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	17.000	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L AS $CaCO_3$)	42	60.000	3.000	31.476	53.250	39.250	31.500	23.000	12.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	13	11.000	<1.000	4.533*	11.000	6.000	5.000	2.000	<1.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	270.000	83.000	130.786	270.000	142.500	120.000	98.500	83.000

Table 14.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 9, Eno River near Durham

Location.--Latitude 36°04'20", longitude 78°454'30", Durham County, on right bank 275 ft downstream from bridge on U.S. Highway 501, 0.2 mi downstream from Crooked Creek, and 5 mi north of Durham, USGS downstream order number 02085070.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENT (Continued)

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	44	547.000	3.100	104.025	392.500	130.000	41.500	13.500	5.975
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	44	1,220.000	52.000	168.773	415.250	173.000	131.500	91.250	65.250
00400	pH, FIELD (STANDARD pH UNITS)	44	7.900	6.400	--	7.775	7.500	7.300	7.025	6.625
00010	WATER TEMPERATURE (°C)	44	28.000	2.000	16.318	27.750	22.500	15.000	11.125	4.875
00080	COLOR (PLATINUM-COBALT UNITS)	1	23.000	--	--	--	--	--	--	--
00076	TURBIDITY (NTU)	42	100.000	2.000	15.202	64.000	18.000	10.500	5.825	2.975
00300	OXYGEN, DISSOLVED (mg/L)	44	12.400	3.400	9.316	12.150	11.175	9.400	7.675	6.350
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	1	90.000	--	--	--	--	--	--	--
00310	BOD 5-DAY AT 20 °C (mg/L)	39	5.300	0.300	1.385	3.200	1.700	1.200	0.800	0.300
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	13	55.000	25.000	35.538	55.000	40.500	36.000	27.500	25.000
00916	CALCIUM, TOTAL (mg/L as Ca)	2	5.600	5.600	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	1	7.800	--	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	4.200	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	1	3.200	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	17.000	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	1	38.000	--	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	1	3.000	--	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	1	43.000	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L AS $CaCO_3$)	42	60.000	3.000	31.476	53.250	39.250	31.500	23.000	12.000
00945	SULFATE, DISSOLVED (mg/L as SO_4)	1	60.000	--	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	1	7.800	--	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	1	<0.100	--	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	1	14.000	--	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	1	160.000	--	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	13	11.000	<1.000	4.533*	11.000	6.000	5.000	2.000	<1.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	270.000	83.000	130.786	270.000	142.500	120.000	98.500	83.000
80154	SUSPENDED SEDIMENT (mg/L)	1	6.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<"

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 14.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 9, Eno River near Durham

Location.--Latitude 36°04'20", longitude 78°454'30", Durham County, on right bank 275 ft downstream from bridge on U.S. Highway 501, 0.2 mi downstream from Crooked Creek, and 5 mi north of Durham, USGS downstream order number 02085070.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	42	0.930	0.010	0.344	0.695	0.457	0.330	0.200	0.132
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	42	0.200	0.010	0.045	0.098	0.050	0.040	0.030	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	41	0.670	0.100	0.303	0.510	0.350	0.290	0.260	0.152
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	42	0.700	0.030	0.341	0.600	0.400	0.300	0.300	0.210
00600	NITROGEN, TOTAL (mg/L as N)	42	1.300	0.180	0.684	1.185	0.858	0.625	0.560	0.346
00665	PHOSPHORUS, TOTAL (mg/L as P)	42	0.210	0.020	0.063	0.140	0.072	0.060	0.040	0.030
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	37	0.040	<0.010	0.014*	0.040	0.020	0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 14.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 9, Eno River near Durham

Location.--Latitude 36°04'20", longitude 78°454'30", Durham County, on right bank 275 ft downstream from bridge on U.S. Highway 501, 0.2 mi downstream from Crooked Creek, and 5 mi north of Durham, USGS downstream order number 02085070.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	3	230.000	100.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	14	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	13	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	13	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	2	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	13	5.000	<2.000	2.330*	5.000	3.000	2.000	<2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	4	770.000	510.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	13	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	2	36.000	35.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	13	33.000	<10.000	--	33.000	<10.000	<10.000	<10.000	<10.000
01077	SILVER, TOTAL (µg/L as Ag)	2	<25.000	<5.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	13	50.000	<10.000	--	50.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 14.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 9, Eno River near Durham

Location.--Latitude 36°04'20", longitude 78°454'30", Durham County, on right bank 275 ft downstream from bridge on U.S. Highway 501, 0.2 mi downstream from Crooked Creek, and 5 mi north of Durham, USGS downstream order number 02085070.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39330	ALDRIN, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	7	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	7	0.001	<0.001	--	0.001	0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	7	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	7	0.006	<0.001	--	0.006	<0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	7	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	0.500	<0.200	--	0.500	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	2	0.010	0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39023	PHORATE, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39040	DEF, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	2	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<"

Table 15.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 10, Knap of Reeds Creek near Butner

Location.--Latitude 36°07'40", longitude 78°48'55", Granville County, on left bank 60 ft downstream from Butner wastewater-treatment plant outfall, 1.5 mi downstream from bridge on Secondary Road 1120, 2.3 mi west of Butner, and 2.5 mi upstream of mouth, USGS downstream order number 02086624.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	44	536.000	3.300	28.866	79.500	21.500	6.950	5.425	3.900
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	43	551.000	62.000	235.395	442.400	310.000	255.000	122.000	70.400
00400	pH, FIELD (STANDARD pH UNITS)	44	7.600	6.300	--	7.400	7.075	6.900	6.800	6.325
00010	WATER TEMPERATURE (°C)	44	27.000	2.000	16.489	26.750	22.500	17.500	11.250	4.875
00076	TURBIDITY (NTU)	15	20.000	5.600	12.033	20.000	15.000	11.000	8.000	5.600
00300	OXYGEN, DISSOLVED (mg/L)	44	12.700	4.600	7.752	11.725	8.975	7.450	6.325	5.625
00310	BOD 5-DAY AT 20 °C (mg/L)	44	5.300	0.100	2.480	5.150	3.575	2.300	1.425	0.550
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	43	71.000	19.000	42.163	70.600	48.000	41.000	36.000	26.400
00916	CALCIUM, TOTAL (mg/L as Ca)	2	23.000	16.000	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	2	6.000	4.400	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	2	86.000	66.000	--	--	--	--	--	--
00431	ALKALINITY (mg/L AS $CaCO_3$)	43	83.000	4.000	37.349	70.000	44.000	40.000	28.000	9.200
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	15	20.000	4.000	9.933	20.000	13.000	10.000	5.000	4.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	15	370.000	74.000	214.267	370.000	250.000	230.000	170.000	74.000

Table 15.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 10, Knap of Reeds Creek near Butner

Location.--Latitude 36°07'40", longitude 78°48'55", Granville County, on left bank 60 ft downatream from Butner wastewater-treatment plant outfall, 1.5 mi downstream from bridge on Secondary Road 1120, 2.3 mi west of Butner, and 2.5 mi upstream of mouth, USGS downstream order number 02086624.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	NO_2 + NO_3, TOTAL (mg/L as N)	44	11.000	0.010	3.519	9.100	5.100	3.950	1.125	0.293
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	44	0.850	0.010	0.103	0.255	0.108	0.080	0.052	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	44	2.300	0.260	0.861	1.400	1.100	0.850	0.592	0.300
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	44	2.400	0.300	0.968	1.650	1.300	1.000	0.625	0.325
00600	NITROGEN, TOTAL (mg/L as N)	44	13.000	0.300	4.469	10.150	6.375	5.000	1.625	0.855
00665	PHOSPHORUS, TOTAL (mg/L as P)	44	5.800	0.040	0.984	4.675	1.175	0.685	0.230	0.093
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	39	3.500	0.010	0.555	1.400	0.840	0.410	0.060	0.010

Table 15.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 10, Knap of Reeds Creek near Butner

Location.--Latitude 36°07'40", longitude 78°48'55", Granville County, on left bank 60 ft downatream from Butner wastewater-treatment plant outfall, 1.5 mi downstream from bridge on Secondary Road 1120, 2.3 mi west of Butner, and 2.5 mi upstream of mouth, USGS downstream order number 02086624.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	5	390.000	<50.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	44	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	44	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	44	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	2	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	44	33.000	<2.000	8.031*	18.000	9.000	6.000	3.000	<10.000
01045	IRON, TOTAL (µg/L as Fe)	6	1,600.000	100.000	805.000	1,600.000	1,225.000	890.000	212.500	100.000
01051	LEAD, TOTAL (µg/L as Pb)	44	14.000	<10.000	--	11.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	5	260.000	<25.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	43	2.600	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	44	94.000	<10.000	--	15.000	<10.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	3	<5.000	<5.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	2	<5.000	<5.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	44	70.000	<10.000	21.257*	50.000	30.000	20.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 15.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 10, Knap of Reeds Creek near Butner

Location.--Latitude 36°07'40", longitude 78°48'55", Granville County, on left bank 60 ft downatream from Butner wastewater-treatment plant outfall, 1.5 mi downstream from bridge on Secondary Road 1120, 2.3 mi west of Butner, and 2.5 mi upstream of mouth, USGS downstream order number 02086624.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39330	ALDRIN, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	9	<1.000	<0.100	--	<1.000	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	3	12.000	<1.000	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	3	0.400	<0.100	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	3	0.600	<0.100	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	9	0.070	<0.010	0.032*	0.070	0.040	0.020	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	3	1.100	0.200	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	9	0.002	<0.001	0.001*	0.002	0.001	0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	3	0.400	<0.100	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	9	<1.000	<0.100	--	<1.000	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	9	<1.000	<0.100	--	<1.000	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	3	<0.500	<0.100	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	9	0.014	<0.001	0.004*	0.014	0.008	0.001	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	3	1.100	<0.100	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	9	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	9	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	3	7.600	0.300	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	9	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	9	<1.000	<0.100	--	<1.000	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	9	<10.000	<1.000	--	<10.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	3	<10.000	<10.000	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	2.000	<0.200	--	2.000	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	18.000	<0.200	3.018*	18.000	0.900	0.600	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	38.000	<0.200	6.676*	38.000	3.500	1.700	0.500	0.500
34418	METHYLCHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	28.000	<0.200	4.805*	28.000	2.700	0.900	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.300	<0.200	--	<0.300	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 15.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 10, Knap of Reeds Creek near Butner

Location.--Latitude 36°07'40", longitude 78°48'55", Granville County, on left bank 60 ft downatream from Butner wastewater-treatment plant outfall, 1.5 mi downstream from bridge on Secondary Road 1120, 2.3 mi west of Butner, and 2.5 mi upstream of mouth, USGS downstream order number 02086624.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34205	ACENAPHTHENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34200	ACENAPHTHYLENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34220	ANTHRACENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34526	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE),TOTAL (µg/L)	3	<10.000	<5.000	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34247	BENZO(A)PYRENE, TOTAL (µg/L)	3	<10.000	<10.000	--	--	--	--	--	--
34230	BENZO(B)FLUORANTHENE, TOTAL (µg/L)	3	<10.000	<10.000	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34521	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), TOTAL (µg/L)	3	<10.000	<10.000	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34242	BENZO(K)FLUORANTHENE, TOTAL (µg/L)	3	<10.000	<10.000	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34292	N-BUTYL BENZYL PHTHALATE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34452	PARACHLOROMETACRESOL, TOTAL (µg/L)	3	<30.000	<30.000	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34320	CHRYSENE, TOTAL (µg/L)	3	<10.000	<10.000	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
39110	DI-N-BUTYL PHTHALATE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34596	DI-N-OCTYL PHTHALATE, TOTAL (µg/L)	3	<10.000	<10.000	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (µg/L)	3	<10.000	<10.000	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34336	DIETHYL PHTHALATE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34341	DIMETHYL PHTHALATE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34657	4,6-DINITRO-ORTHOCRESOL, TOTAL (µg/L)	3	<30.000	<30.000	--	--	--	--	--	--
34376	FLUORANTHENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34381	FLUORENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39700	HEXACHLOROBENZENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39702	HEXACHLOROBUTADIENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34396	HEXACHLOROETHANE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (µg/L)	3	<10.000	<10.000	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34408	ISOPHORONE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34433	N-NITROSODIPHENYLAMINE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34696	NAPHTHALENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34447	NITROBENZENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34438	N-NITROSODIMETHYLAMINE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
39032	PENTACHLOROPHENOL, TOTAL (µg/L)	3	<30.000	<30.000	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34461	PHENANTHRENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34694	PHENOL (C6H-5OH), TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34695	PHENOL (C6H-5OH), BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34469	PYRENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34551	1,2,4-TRICHLOROBENZENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 15.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 10, Knap of Reeds Creek near Butner

Location.--Latitude 36°07'40", longitude 78°48'55", Granville County, on left bank 60 ft downatream from Butner wastewater-treatment plant outfall, 1.5 mi downstream from bridge on Secondary Road 1120, 2.3 mi west of Butner, and 2.5 mi upstream of mouth, USGS downstream order number 02086624.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34278	BIS(2-CHLOROETHOXY)METHANE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34273	BIS-2-CHLOROETHYL ETHER, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34283	BIS(2-CHLOROISOPROPYL)ETHER, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34581	2-CHLORONAPHTHALENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34586	2-CHLOROPHENOL, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
39100	BIS(2-ETHYLHEXYL) PHTHALATE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34591	2-NITROPHENOL, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34601	2,4-DICHLOROPHENOL, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34606	2,4-DIMETHYLPHENOL, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34616	2,4-DINITROPHENOL, TOTAL (µg/L)	3	<20.000	<20.000	--	--	--	--	--	--
34611	2,4-DINITROTOLUENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34621	2,4,6-TRICHLOROPHENOL, TOTAL (µg/L)	3	<20.000	<20.000	--	--	--	--	--	--
34626	2,6-DINITROTOLUENE, TOTAL (µg/L)	3	<5.000	<5.000	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34636	4-BROMOPHENYL ETHER, TOTAL (µg/L))	3	<5.000	<5.000	--	--	--	--	--	--
34646	4-NITROPHENOL, TOTAL (µg/L)	3	<30.000	<30.000	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	3	5300.000	<200.000	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	3	0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 16.--*Statistical summary of water-quality data, October 1988 through June 1991*

Site 11, Little River below Dam near Fairntosh

Location.--Latitude 36°06'43", longitude 78°52'08", Durham County, 4.0 mi above Secondary Road 1004, and 1.1 mi northeast of Faimtosh, USGS downstream order number 0208524850.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	35	135.000	54.000	86.514	131.000	100.000	87.000	68.000	57.200
00400	pH, FIELD (STANDARD pH UNITS)	35	7.800	6.400	--	7.720	7.300	7.100	6.900	6.400
00010	WATER TEMPERATURE (°C)	36	28.500	5.500	17.903	28.500	24.750	16.750	12.000	7.625
00080	COLOR (PLATINUM-COBALT UNITS)	36	160.000	13.000	47.528	117.500	63.750	37.500	22.750	13.000
00300	OXYGEN, DISSOLVED (mg/L)	35	14.600	5.600	9.774	13.400	11.200	9.800	8.300	6.720
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	34	122.000	68.000	101.765	119.000	108.250	102.000	95.500	83.750
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	36	58.000	18.000	31.389	52.050	38.500	31.500	20.250	18.000
00915	CALCIUM, DISSOLVED (mg/L as Ca)	36	17.000	4.300	8.528	15.300	10.750	8.650	4.900	4.385
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	36	3.700	1.700	2.428	3.530	2.875	2.300	1.925	1.785
00930	SODIUM, DISSOLVED (mg/L as Na)	36	6.400	3.000	4.244	5.635	4.850	4.150	3.700	3.000
00935	POTASSIUM, DISSOLVED (mg/L as K)	36	2.700	1.200	1.956	2.530	2.275	1.900	1.700	1.285
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	36	58.000	13.000	30.167	52.900	36.500	29.500	20.000	15.550
00945	SULFATE, DISSOLVED (mg/L as SO_4)	35	13.000	3.000	5.717	12.200	6.700	5.200	4.000	3.160
00945	00940 CHLORIDE, DISSOLVED (mg/L as Cl)	36	6.200	3.700	4.856	6.200	5.400	4.800	4.325	3.700
00950	FLUORIDE, DISSOLVED (mg/L as F)	36	0.300	<0.100	0.105*	0.200	0.100	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	36	12.000	2.600	8.750	12.000	10.000	8.750	8.000	3.280
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	35	93.000	31.000	62.800	90.600	73.000	61.000	52.000	41.400
38260	DETERGENTS, MBAS (mg/L)	26	0.120	0.030	0.047	0.103	0.060	0.040	0.038	0.030
80154	SUSPENDED SEDIMENT (mg/L)	25	31.000	1.000	9.880	28.300	14.000	8.000	4.500	1.300

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 16.--*Statistical summary of water-quality data, October 1988 through June 1991*--Continued

Site 11, Little River below Dam near Fairntosh

Location.--Latitude 36°06'43", longitude 78°52'08", Durham County, 4.0 mi above Secondary Road 1004, and 1.1 mi northeast of Fairntosh, USGS downstream order number 0208524850.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	36	0.030	<0.010	0.013*	0.030	0.020	0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	11	0.010	<0.010	--	0.010	0.010	<0.010	<0.010	<0.010
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	36	0.400	<0.100	0.201*	0.400	0.300	0.200	<0.100	<0.100
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	36	0.400	<0.100	0.214*	0.400	0.300	0.200	<0.100	<0.100
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	36	0.330	0.010	0.061	0.177	0.070	0.050	0.030	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	36	0.310	<0.010	0.058*	0.140	0.070	0.050	0.030	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	33	2.400	0.220	0.607	1.371	0.715	0.540	0.455	0.297
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	30	1.000	0.280	0.496	0.918	0.565	0.450	0.368	0.285
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	36	2.500	<0.200	0.651*	1.000	0.700	0.600	0.500	<0.200
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	34	1.100	0.300	0.562	0.950	0.600	0.500	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	33	2.600	0.500	0.847	1.550	0.945	0.800	0.605	0.500
00665	PHOSPHORUS, TOTAL (mg/L as P)	36	0.130	0.010	0.043	0.113	0.050	0.040	0.020	0.010
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	36	0.060	<0.010	0.020*	0.050	0.030	0.020	<0.010	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	36	0.100	<0.010	0.015*	0.050	0.020	0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	36	0.070	<0.010	0.012*	0.030	0.020	<0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 16.--*Statistical summary of water-quality data, October 1988 through June 1991*--Continued

Site 11, Little River below Dam near Fairntosh

Location.--Latitude 36°06'43", longitude 78°52'08", Durham County, 4.0 mi above Secondary Road 1004, and 1.1 mi northeast of Faimtosh, USGS downstream order number 0208524850.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	14	940.000	20.000	197.857	940.000	147.500	120.000	57.500	20.000
01002	ARSENIC, TOTAL (µg/L as As)	14	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	14	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	14	2.000	<1.000	--	2.000	<1.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	14	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	14	7.000	1.000	2.571	7.000	3.000	2.000	1.750	1.000
01045	IRON, TOTAL (µg/L as Fe)	14	1,500.000	190.000	488.571	1,500.000	587.500	375.000	240.000	190.000
01051	LEAD, TOTAL (µg/L as Pb)	14	7.000	<1.000	1.356*	7.000	1.000	1.000	<1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	14	560.000	60.000	275.000	560.000	337.500	250.000	172.500	60.000
71900	MERCURY, TOTAL (µg/L as Hg)	14	0.200	<0.100	--	0.200	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	14	4.000	<1.000	--	4.000	<1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	14	5.000	<1.000	1.596*	5.000	2.000	1.000	<1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	14	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	13	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	14	10.000	<10.000	--	10.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 16.--*Statistical summary of water-quality data, October 1988 through June 1991*--Continued

Site 11, Little River below Dam near Fairntosh

Location.--Latitude 36°06'43", longitude 78°52'08", Durham County, 4.0 mi above Secondary Road 1004, and 1.1 mi northeast of Faimtosh, USGS downstream order number 0208524850.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	36	9.300	5.200	6.894	9.045	7.575	6.800	6.125	5.285
39330	ALDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	8	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	0.700	<0.200	--	0.700	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34205	ACENAPHTHENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34200	ACENAPHTHYLENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34220	ANTHRACENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34526	BENZO(A)ANTHRACENE (1,2-BENZAN-THRACENE), TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34247	BENZO(A)PYRENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34230	BENZO(B)FLUORANTHENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34521	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34242	BENZO(K)FLUORANTHENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34292	N-BUTYL BENZYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34452	PARACHLOROMETACRESOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34320	CHRYSENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
39110	DI-N-BUTYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34596	DI-N-OCTYL PHTHALATE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 16.--*Statistical summary of water-quality data, October 1988 through June 1991*--Continued

Site 11, Little River below Dam near Fairntosh

Location.--Latitude 36°06'43", longitude 78°52'08", Durham County, 4.0 mi above Secondary Road 1004, and 1.1 mi northeast of Fairntosh, USGS downstream order number 0208524850.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34336	DIETHYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34341	DIMETHYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34657	4,6-DINITRO-ORTHOCRESOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34376	FLUORANTHENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34381	FLUORENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39700	HEXACHLOROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39702	HEXACHLOROBUTADIENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34396	HEXACHLOROETHANE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34403	INDENO(1,2,3-CD)PYRENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34408	ISOPHORONE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34433	N-NITROSODIPHENYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34696	NAPHTHALENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34447	NITROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34438	N-NITROSODIMETHYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39032	PENTACHLOROPHENOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34461	PHENANTHRENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34694	PHENOL (C6H-5OH), TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34469	PYRENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34551	1,2,4-TRICHLOROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34278	BIS(2-CHLOROETHOXY)METHANE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34273	BIS-2-CHLOROETHYL ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34283	BIS(2-CHLOROISOPROPYL)ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34581	2-CHLORONAPHTHALENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34586	2-CHLOROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39100	BIS(2-ETHYLHEXYL) PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34591	2-NITROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34601	2,4-DICHLOROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34606	2,4-DIMETHYLPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34616	2,4-DINITROPHENOL, TOTAL (µg/L)	1	<20.000	--	--	--	--	--	--	--
34611	2,4-DINITROTOLUENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34621	2,4,6-TRICHLOROPHENOL, TOTAL (µg/L)	1	<20.000	--	--	--	--	--	--	--
34626	2,6-DINITROTOLUENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34636	4-BROMOPHENYL ETHER, TOTAL (µg/L))	1	<5.000	--	--	--	--	--	--	--
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (µg/L))	1	<5.000	--	--	--	--	--	--	--
34646	4-NITROPHENOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	2	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39023	PHORATE, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39040	DEF, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	2	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 17.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 12, Little River at Secondary Road 1461 near Orange Factory

Location.--Latitude 36°08'30", longitude 78°55'10", Durham County, at Secondary Road 1461, and 1.8 mi northwest of Orange Factory, USGS downstream order number 0208521324.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE, (ft^3/s)	19	1,900.000	0.560	290.651	1,900.000	364.000	79.000	15.000	0.560
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	19	115.000	47.000	73.368	115.000	85.000	68.000	60.000	47.000
00400	pH, FIELD (STANDARD pH UNITS)	19	8.000	6.100	--	8.000	6.900	6.800	6.600	6.100
00010	WATER TEMPERATURE (°C)	19	24.000	4.500	14.658	24.000	19.000	16.500	10.000	4.500
†00080	COLOR (PLATINUM-COBALT UNITS)	13	180.000	13.000	75.077	180.000	140.000	55.000	19.500	13.000
00300	OXYGEN, DISSOLVED (mg/L)	17	16.400	6.900	10.418	16.400	10.850	10.000	9.100	6.900
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	16	129.000	77.000	101.000	129.000	105.750	101.000	93.500	77.000
†00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	13	39.000	16.000	26.000	39.000	31.000	25.000	20.000	16.000
†00915	CALCIUM, DISSOLVED (mg/L as Ca)	13	9.400	3.700	6.185	9.400	7.450	5.900	4.700	3.700
†00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	13	3.800	1.600	2.531	3.800	3.050	2.500	1.950	1.600
†00930	SODIUM, DISSOLVED (mg/L as Na)	13	5.900	3.100	4.523	5.900	5.200	5.000	3.550	3.100
†00935	POTASSIUM, DISSOLVED (mg/L as K)	13	3.800	1.000	1.892	3.800	2.450	1.700	1.150	1.000
†90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	13	47.000	12.000	26.000	47.000	33.000	23.000	16.000	12.000
†00945	SULFATE, DISSOLVED (mg/L as SO_4)	13	7.000	1.700	4.000	7.000	5.750	3.900	2.500	1.700
†00940	CHLORIDE, DISSOLVED (mg/L as Cl)	13	6.300	3.400	4.754	6.300	5.750	4.500	4.050	3.400
†00950	FLUORIDE, DISSOLVED (mg/L as F)	13	0.300	<0.100	0.104*	0.300	0.100	0.100	<0.100	<0.100
†00955	SILICA, DISSOLVED (mg/L as SiO_2)	13	17.000	6.900	11.385	17.000	15.000	11.000	8.550	6.900
†70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	13	74.000	37.000	58.231	74.000	63.500	60.000	54.500	37.000
80154	SUSPENDED SEDIMENT (mg/L)	17	476.000	2.000	92.294	476.000	168.000	16.000	5.000	2.000

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	45	1,030.000	0.670	79.277	338.700	84.000	25.000	7.350	1.420
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	45	120.000	37.000	80.356	109.700	90.500	81.000	69.500	54.600
00400	pH, FIELD (STANDARD pH UNITS)	45	8.200	6.600	--	7.980	7.350	7.100	6.800	6.630
00010	WATER TEMPERATURE (°C)	44	27.000	1.000	15.080	25.875	21.750	14.250	9.000	3.625
00076	TURBIDITY (NTU)	45	190.000	2.100	21.169	85.000	27.000	12.000	6.000	2.290
00300	OXYGEN, DISSOLVED (mg/L)	45	13.200	5.900	9.673	12.720	11.100	10.200	8.100	6.780
00310	BOD 5-DAY AT 20 °C (mg/L)	2	1.100	0.700	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	14	40.000	4.000	28.214	40.000	32.500	30.500	25.000	4.000
00916	CALCIUM, TOTAL (mg/L as Ca)	1	5.800	--	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	2.200	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	3.700	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L as $CaCO_3$)	44	49.000	4.000	27.773	40.750	34.000	29.000	22.000	9.500
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	44	240.000	<1.000	15.102*	48.000	10.000	6.000	2.000	<1.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	44	350.000	47.000	99.591	215.000	107.500	86.500	72.500	58.250

†Period July 1989 to September 1992.

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 17.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 12, Little River at Secondary Road 1461 near Orange Factory

Location.--Latitude 36°08'30", longitude 78°55'10", Durham County, at Secondary Road 1461, and 1.8 mi northwest of Orange Factory, USGS downstream order number 0208521324.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS (Continued)

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	64	1,900.000	0.560	142.029	952.000	135.000	30.500	8.600	1.400
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	64	120.000	37.000	78.281	109.750	86.750	79.000	64.250	54.500
00400	pH, FIELD (STANDARD pH UNITS)	64	8.200	6.100	--	7.925	7.300	6.900	6.800	6.500
00010	WATER TEMPERATURE (°C)	63	27.000	1.000	14.952	25.400	20.500	15.500	10.000	4.600
00080	COLOR (PLATINUM-COBALT UNITS)	13	180.000	13.000	75.077	180.000	140.000	55.000	19.500	13.000
00076	TURBIDITY (NTU)	45	190.000	2.100	21.169	85.100	27.000	12.000	6.000	2.290
00300	OXYGEN, DISSOLVED (mg/L)	17	759.000	740.000	751.353	759.000	755.000	754.000	747.000	740.000
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	62	16.400	5.900	9.877	13.155	11.025	10.100	8.575	6.945
00310	BOD 5-DAY AT 20 °C (mg/L)	16	129.000	77.000	101.000	129.000	105.750	101.000	93.500	77.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	2	1.100	0.700	--	--	--	--	--	--
00916	CALCIUM, TOTAL (mg/L as Ca)	27	40.000	4.000	27.148	39.600	32.000	28.000	22.000	8.800
00915	CALCIUM, DISSOLVED (mg/L as Ca)	1	5.800	--	--	--	--	--	--	--
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	13	9.400	3.700	5.185	9.400	7.450	5.900	4.700	3.700
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	2.200	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	13	3.800	1.600	2.531	3.800	3.050	2.500	1.950	1.600
00929	SODIUM TOTAL REC ((MG/L AS NA)	1	3.700	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	13	5.900	3.100	4.523	5.900	5.200	5.000	3.550	3.100
00932	SODIUM, PERCENT PERCENT	13	31.000	21.000	26.231	31.000	29.000	27.000	24.000	21.000
00931	SODIUM ADSORPTIO (RATIO)	13	0.400	0.300	0.377	0.400	0.400	0.400	0.350	0.300
00935	POTASSIUM, DISSOLVED (mg/L as K)	13	3.800	1.000	1.892	3.800	2.450	1.700	1.150	1.000
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	13	47.000	12.000	26.000	47.000	33.000	23.000	16.000	12.000
00431	ALKALINITY, TOTAL (mg/L AS $CaCO_3$)	44	49.000	4.000	27.773	40.750	34.000	29.000	22.000	9.500
00945	SULFATE, DISSOLVED (mg/L as SO_4)	13	7.000	1.700	4.000	7.000	5.750	3.900	2.500	1.700
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	13	6.300	3.400	4.754	6.300	5.750	4.500	4.050	3.400
00950	FLUORIDE, DISSOLVED (mg/L as F)	13	0.300	<0.100	0.104*	0.300	0.100	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	13	17.000	6.900	11.385	17.000	15.000	11.000	8.550	6.900
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	13	74.000	37.000	58.231	74.000	63.500	60.000	54.500	37.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	44	240.000	<1.000	15.102*	48.000	10.000	6.000	2.000	<1.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	44	350.000	47.000	99.591	215.000	107.500	86.500	72.500	58.250
80154	SUSPENDED SEDIMENT (mg/L)	17	476.000	2.000	92.294	476.000	168.000	16.000	5.000	2.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 17.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 12, Little River at Secondary Road 1461 near Orange Factory

Location.--Latitude 36°08'30", longitude 78°55'10", Durham County, at Secondary Road 1461, and 1.8 mi northwest of Orange Factory, USGS downstream order number 0208521324.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OF CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.010	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	19	0.700	<0.100	0.337*	0.700	0.400	0.300	0.220	<0.100
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	19	0.160	<0.010	0.040*	0.160	0.050	0.030	0.020	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	19	1.100	0.280	0.552	1.100	0.760	0.500	0.350	0.280
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	19	1.100	0.300	0.589	1.100	0.800	0.500	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	19	1.600	0.300	0.912	1.600	1.200	0.800	0.700	0.300
00665	PHOSPHORUS, TOTAL (mg/L as P)	19	0.230	<0.010	0.072*	0.230	0.090	0.040	0.030	0.030
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	19	0.110	<0.010	0.034*	0.110	0.040	0.030	0.010	<0.010

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	45	1.320	0.010	0.321	0.664	0.440	0.310	0.150	0.019
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	45	0.100	<0.010	0.030*	0.070	0.040	0.030	0.020	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	45	0.570	0.100	0.297	0.480	0.375	0.280	0.190	0.150
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	45	0.600	0.200	0.327	0.500	0.400	0.300	0.200	0.200
00600	NITROGEN, TOTAL (mg/L as N)	45	1.500	0.200	0.648	1.170	0.775	0.610	0.445	0.312
00665	PHOSPHORUS, TOTAL (mg/L as P)	45	0.280	0.010	0.060	0.234	0.070	0.040	0.030	0.013
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	38	0.020	<0.010	0.007*	0.020	0.010	<0.010	<0.010	<0.010
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	1	6.000	--	--	--	--	--	--	--
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	1	3.000	--	--	--	--	--	--	--

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.010	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	64	1.320	<0.010	0.325*	0.650	0.420	0.300	0.170	<0.100
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	64	0.160	<0.010	0.033*	0.090	0.040	0.030	0.020	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	64	1.100	0.100	0.372	0.830	0.460	0.325	0.260	0.155
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	64	1.100	0.200	0.405	0.900	0.500	0.350	0.300	0.200
00600	NITROGEN, TOTAL (mg/L as N)	64	1.600	0.200	0.726	1.450	0.858	0.700	0.493	0.310
00665	PHOSPHORUS, TOTAL (mg/L as P)	64	0.280	0.010	0.064	0.227	0.070	0.040	0.030	0.012
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	57	0.110	<0.010	0.016*	0.070	0.020	<0.010	<0.010	<0.010
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	1	6.000	--	--	--	--	--	--	--
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	1	3.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 17.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 12, Little River at Secondary Road 1461 near Orange Factory

Location.--Latitude 36°08'30", longitude 78°55'10", Durham County, at Secondary Road 1461, and 1.8 mi northwest of Orange Factory, USGS downstream order number 0208521324.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
†01105	ALUMINUM, TOTAL (µg/L as Al)	13	4,000.000	50.000	1,099.231	4,000.000	1,900.000	400.000	90.000	50.000
†01002	ARSENIC, TOTAL (µg/L as As)	13	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
†01027	CADMIUM, TOTAL (µg/L as Cd)	13	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
†01034	CHROMIUM, TOTAL (µg/L as Cr)	13	4.000	<1.000	1.313*	4.000	1.000	<1.000	<1.000	<1.000
†01037	COBALT, TOTAL (µg/L as Co)	13	2.000	<1.000	1.039*	2.000	1.000	1.000	<1.000	<1.000
†01042	COPPER, TOTAL (µg/L as Cu)	13	6.000	1.000	2.923	6.000	4.500	3.000	1.000	1.000
†01045	IRON, TOTAL (µg/L as Fe)	13	6,700.000	360.000	2,346.923	6,700.000	3,150.000	1,700.000	795.000	360.000
†01051	LEAD, TOTAL (µg/L as Pb)	13	4.000	<1.000	1.753*	4.000	2.000	2.000	1.000	<1.000
†01055	MANGANESE, TOTAL (µg/L as Mn)	13	610.000	20.000	140.000	610.000	215.000	60.000	35.000	20.000
†71900	MERCURY, TOTAL (µg/L as Hg)	13	0.100	<0.100	--	0.100	<0.100	<0.100	<0.100	<0.100
†01062	MOLYBDENUM, TOTAL (µg/L as Mo)	13	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
†01067	NICKEL, TOTAL (µg/L as Ni)	13	3.000	<1.000	1.506*	3.000	2.000	1.000	1.000	1.000
†01147	SELENIUM, TOTAL (µg/L as Se)	13	<3.000	<1.000	--	<3.000	<1.000	<1.000	<1.000	<1.000
†01077	SILVER, TOTAL (µg/L as Ag)	11	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
†01092	ZINC, TOTAL (µg/L as Zn)	13	20.000	<10.000	--	20.000	<10.000	<10.000	<10.000	<10.000

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	2	120.000	<50.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	15	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	15	34.000	<2.000	--	34.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	15	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	1	<50.000	--	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	15	7.000	<2.000	--	7.000	2.000	<2.000	<2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	3	770.000	280.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	15	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	2	13.000	<25.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	15	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	15	<50.000	<10.000	--	<50.000	<10.000	<10.000	<10.000	<10.000
01077	SILVER, TOTAL (µg/L as Ag)	1	<5.000	--	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	15	10.000	<10.000	--	10.000	<10.000	<10.000	<10.000	<10.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	15	4,000.000	<50.000	961.215*	4,000.000	1,400.000	370.000	70.000	50.000
01002	ARSENIC, TOTAL (µg/L as As)	28	1.000	<1.000	--	<10.000	<10.000	<10.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	28	34.000	<1.000	--	1.000	<2.000	<2.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	28	4.000	<1.000	1.269*	4.000	<25.000	<25.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	14	2.000	<1.000	1.034*	2.000	1.000	1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	28	7.000	<2.000	2.347*	6.000	3.000	1.000	<2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	16	6,700.000	280.000	2,016.875	6,700.000	2,150.000	1,450.000	710.000	280.000
01051	LEAD, TOTAL (µg/L as Pb)	28	4.000	<1.000	1.751*	3.000	1.000	<10.000	<10.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	15	610.000	<25.000	123.004*	610.000	150.000	50.000	30.000	13.000
71900	MERCURY, TOTAL (µg/L as Hg)	28	0.100	<0.100	--	<0.200	<0.200	<0.200	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	13	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	28	3.000	<1.000	1.489*	2.000	1.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	13	<3.000	<1.000	--	<3.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	12	<5.000	<1.000	--	<5.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	28	20.000	<10.000	5.100*	10.000	<10.000	<10.000	<10.000	<10.000

†Period July 1989 to September 1992.

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 17.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 12, Little River at Secondary Road 1461 near Orange Factory

Location.--Latitude 36°08'30", longitude 78°55'10", Durham County, at Secondary Road 1461, and 1.8 mi northwest of Orange Factory, USGS downstream order number 0208521324.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	19	21.000	3.000	8.295	21.000	11.000	6.200	4.600	3.000
39330	ALDRIN, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	15	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39363	DDD, BTM (µg/kg)	3	0.100	<0.100	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39368	DDE, BTM (µg/kg)	3	0.100	<0.100	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39373	DDT, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	15	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	15	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	15	0.001	<0.001	--	0.001	<0.010	<0.010	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	14	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	15	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	15	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	3	<10.000	<10.000	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	13	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	13	0.400	<0.200	--	0.400	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	13	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 17.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 12, Little River at Secondary Road 1461 near Orange Factory

Location.--Latitude 36°08'30", longitude 78°55'10", Durham County, at Secondary Road 1461, and 1.8 mi northwest of Orange Factory, USGS downstream order number 0208521324.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	14	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34205	ACENAPHTHENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34200	ACENAPHTHYLENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34220	ANTHRACENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34526	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), TOTAL (µg/L)	2	<10.000	<5.000	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34247	BENZO(A)PYRENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34230	BENZO(B)FLUORANTHENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34521	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34242	BENZO(K)FLUORANTHENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34292	N-BUTYL BENZYL PHTHALATE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34452	PARACHLOROMETACRESOL, TOTAL (µg/L)	2	<30.000	<30.000	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34320	CHRYSENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
39110	39110 DI-N-BUTYL PHTHALATE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34596	DI-N-OCTYL PHTHALATE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34336	DIETHYL PHTHALATE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34341	DIMETHYL PHTHALATE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34657	4,6-DINITRO-ORTHOCRESOL, TOTAL (µg/L)	2	<30.000	<30.000	--	--	--	--	--	--
34376	FLUORANTHENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34381	FLUORENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39700	HEXACHLOROBENZENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39702	HEXACHLOROBUTADIENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34396	HEXACHLOROETHANE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34408	ISOPHORONE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34433	N-NITROSODIPHENYLAMINE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34696	NAPHTHALENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34447	NITROBENZENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34438	N-NITROSODIMETHYLAMINE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
39032	PENTACHLOROPHENOL, TOTAL (µg/L)	2	<30.000	<30.000	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 17.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 12, Little River at Secondary Road 1461 near Orange Factory

Location.--Latitude 36°08'30", longitude 78°55'10", Durham County, at Secondary Road 1461, and 1.8 mi northwest of Orange Factory, USGS downstream order number 0208521324.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34461	PHENANTHRENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34694	PHENOL (C6H-50H), TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34469	PYRENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34551	1,2,4-TRICHLOROBENZENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	14	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	14	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34278	BIS(2-CHLOROETHOXY)METHANE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34273	BIS-2-CHLOROETHYL ETHER, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34283	BIS(2-CHLOROISOPROPYL)ETHER, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34581	2-CHLORONAPHTHALENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34586	2-CHLOROPHENOL, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
39100	BIS(2-ETHYLHEXYL) PHTHALATE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34591	2-NITROPHENOL, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34601	2,4-DICHLOROPHENOL, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34606	2,4-DIMETHYLPHENOL, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34616	2,4-DINITROPHENOL, TOTAL (µg/L)	2	<20.000	<20.000	--	--	--	--	--	--
34611	2,4-DINITROTOLUENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34621	2,4,6-TRICHLOROPHENOL, TOTAL (µg/L)	2	<20.000	<20.000	--	--	--	--	--	--
34626	2,6-DINITROTOLUENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34636	4-BROMOPHENYL ETHER, TOTAL (µg/L))	2	<5.000	<5.000	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	2	<200.000	<200.000	--	--	--	--	--	--
34646	4-NITROPHENOL, TOTAL (µg/L)	2	<30.000	<30.000	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39011	DISYSTON, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTal (µg/L)	13	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 18.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 13, Little River Reservoir at Dam near Bahama

Location.--Latitude 36°06'53", longitude 78°52'10", Durham County, at dam, 7.5 mi below U.S. Highway 501, and 4.0 mi south of Bahama, USGS downstream order number 0208524845.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	20	145.000	55.000	76.900	142.450	80.750	72.500	67.250	55.250
00400	pH, FIELD (STANDARD pH UNITS)	20	7.700	6.100	--	7.695	7.075	6.850	6.625	6.120
00010	WATER TEMPERATURE (°C)	20	28.000	12.000	20.725	27.925	25.875	21.500	16.125	12.000
00080	COLOR (PLATINUM-COBALT UNITS)	20	120.000	13.000	39.450	117.350	53.750	32.500	22.750	13.050
00300	OXYGEN, DISSOLVED (mg/L)	18	12.000	3.400	6.139	12.000	7.625	5.750	4.325	3.400
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	18	113.000	40.000	68.611	113.000	88.500	64.500	49.000	40.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	20	31.000	17.000	24.450	31.000	26.750	24.500	22.000	17.150
00915	CALCIUM, DISSOLVED (mg/L as Ca)	20	8.200	4.200	6.005	8.170	6.475	5.950	5.350	4.235
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	20	3.000	1.700	2.300	2.980	2.500	2.250	2.100	1.710
00930	SODIUM, DISSOLVED (mg/L as Na)	20	4.900	2.900	4.040	4.895	4.400	4.150	3.500	2.905
00935	POTASSIUM, DISSOLVED (mg/L as K)	20	2.600	1.400	1.915	2.600	2.250	1.800	1.625	1.405
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	20	34.000	12.000	23.300	33.900	27.000	23.000	19.500	12.050
00945	SULFATE, DISSOLVED (mg/L as SO_4)	20	11.000	2.900	4.760	10.770	5.550	4.450	3.425	2.905
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	20	5.900	3.400	4.600	5.870	5.075	4.700	3.950	3.410
00950	FLUORIDE, DISSOLVED (mg/L as F)	20	1.900	<0.100	0.194*	0.300	0.100	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	20	11.000	3.800	8.110	10.950	9.325	8.550	7.300	3.885
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	20	66.000	27.000	49.150	65.900	54.750	49.500	43.750	27.400
38260	DETERGENTS, MBAS (mg/L)	11	0.060	0.030	0.042	0.060	0.050	0.040	0.030	0.030

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 18.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 13, Little River Reservoir at Dam near Bahama

Location.--Latitude 36°06'53", longitude 78°52'10", Durham County, at dam, 7.5 mi below U.S. Highway 501, and 4.0 mi south of Bahama, USGS downstream order number 0208524845.

MAJOR NUTRIENTS

PARAMETER CODE	PROPERTY OR CONSTITUENT	SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY								
		DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	17	0.040	<0.010	0.012*	0.040	0.010	<0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	9	0.040	<0.010	--	0.040	0.010	<0.010	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	17	0.340	<0.050	0.137*	0.340	0.200	0.100	<0.100	<0.050
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	19	0.400	<0.050	0.142*	0.400	0.230	0.100	<0.100	<0.050
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	17	0.360	0.010	0.126	0.360	0.170	0.120	0.035	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	19	0.350	0.020	0.116	0.350	0.150	0.090	0.040	0.020
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	19	0.740	0.190	0.486	0.740	0.570	0.490	0.370	0.190
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	18	0.660	0.230	0.414	0.660	0.535	0.375	0.300	0.230
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	19	1.100	0.200	0.605	1.100	0.700	0.600	0.500	0.200
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	18	0.800	0.300	0.533	0.800	0.700	0.500	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	19	1.100	0.400	0.717	1.100	0.900	0.700	0.620	0.400
00665	PHOSPHORUS, TOTAL (mg/L as P)	19	0.060	<0.010	0.028*	0.060	0.030	0.030	0.020	0.010
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	19	0.050	<0.010	0.016*	0.050	0.020	0.010	<0.010	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	17	0.030	<0.010	0.016*	0.030	0.020	<0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	19	0.020	<0.010	--	0.020	<0.010	<0.010	<0.010	<0.010
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	20	12.000	<0.100	3.319*	9.000	3.800	2.200	1.000	<0.100
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	20	1.000	<0.100	--	0.500	<0.800	<0.500	<0.100	<0.100

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 18.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 13, Little River Reservoir at Dam near Bahama

Location.--Latitude 36°06'53", longitude 78°52'10", Durham County, at dam, 7.5 mi below U.S. Highway 501, and 4.0 mi south of Bahama, USGS downstream order number 0208524845.

MINOR ELEMENTS

PARAMETER CODE	PROPERTY OR CONSTITUENT	SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY								
		DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	20	1,500.000	20.000	199.500	1,480.000	130.000	60.000	40.000	20.500
01002	ARSENIC, TOTAL (µg/L as As)	20	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	20	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	20	5.000	<1.000	1.073*	3.000	1.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	20	1.000	<1.000	1.000*	1.000	1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	19	28.000	<1.000	3.497*	28.000	3.000	2.000	1.000	1.000
01045	IRON, TOTAL (µg/L as Fe)	20	1,800.000	120.000	575.000	1,795.000	755.000	375.000	217.500	120.500
01051	LEAD, TOTAL (µg/L as Pb)	19	7.000	<1.000	1.666*	7.000	2.000	1.000	<1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	20	1,800.000	30.000	423.500	1,775.000	507.500	305.000	140.000	32.000
71900	MERCURY, TOTAL (µg/L as Hg)	20	0.300	<0.100	--	0.200	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	20	4.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	18	4.000	<1.000	1.284*	4.000	2.000	1.000	<1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	20	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	18	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	20	20.000	<10.000	8.422*	20.000	10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 18.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 13, Little River Reservoir at Dam near Bahama

Location.--Latitude 36°06'53", longitude 78°52'10", Durham County, at dam, 7.5 mi below U.S. Highway 501, and 4.0 mi south of Bahama, USGS downstream order number 0208524845.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	20	11.000	5.200	7.075	10.950	8.000	6.900	5.700	5.215
39330	ALDRIN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	10	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	10	0.020	<0.010	--	0.020	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	10	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	10	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	10	0.012	<0.001	--	0.012	<0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	10	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	<0.400	<0.200	--	<0.400	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.190	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 18.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 13, Little River Reservoir at Dam near Bahama

Location.--Latitude 36°06'53", longitude 78°52'10", Durham County, at dam, 7.5 mi below U.S. Highway 501, and 4.0 mi south of Bahama, USGS downstream order number 0208524845.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.200	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 19.--*Statistical summary of water-quality data, October 1988 through June 1991*

Site 14, Flat River at Dam near Bahama

Location.--Latitude 36°08'55", longitude 78°49'43", Durham County, on right bank 900 ft downstream from Durham municipal dam, 3 mi southeast of Bahama, and 5 mi upstream of confluence with Eno River, USGS downstream order number 02086500.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE, (ft^3/s)	34	2,420.000	0.010	202.334	1,024.250	193.000	84.000	36.500	0.017
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	34	105.000	40.000	68.000	101.250	76.500	65.000	57.750	42.250
00400	pH, FIELD (STANDARD pH UNITS)	34	8.000	5.700	--	7.475	7.125	7.000	6.600	6.000
00010	WATER TEMPERATURE (°C)	33	26.000	5.000	14.970	26.000	19.250	14.500	10.250	5.700
00080	COLOR (PLATINUM-COBALT UNITS)	34	170.000	20.000	76.824	155.000	110.000	65.000	54.500	25.250
00300	OXYGEN, DISSOLVED (mg/L)	33	13.300	2.400	7.939	12.600	9.900	8.200	6.250	2.680
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	32	106.000	26.000	78.594	105.350	96.750	85.500	63.500	27.950
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	34	35.000	14.000	20.647	34.250	22.250	20.000	17.000	14.750
00915	CALCIUM, DISSOLVED (mg/L as Ca)	34	9.400	3.400	4.912	8.950	5.200	4.700	4.075	3.400
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	34	3.100	1.300	2.035	2.950	2.300	1.900	1.775	1.450
00930	SODIUM, DISSOLVED (mg/L as Na)	34	6.300	2.100	4.238	5.700	4.825	4.200	3.650	2.850
00935	POTASSIUM, DISSOLVED (mg/L as K)	34	3.000	1.200	2.012	2.925	2.425	1.900	1.600	1.350
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	34	39.000	8.000	18.100	36.750	20.000	17.000	13.750	8.750
00945	SULFATE, DISSOLVED (mg/L as SO_4)	32	9.200	2.900	5.716	9.200	6.975	5.250	4.425	2.965
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	34	6.700	3.400	4.894	6.475	5.525	4.750	4.200	3.550
00950	FLUORIDE, DISSOLVED (mg/L as F)	34	0.400	<0.100	0.114*	0.300	0.100	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	34	12.000	4.800	9.341	12.000	11.000	9.850	8.175	5.325
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	33	70.000	28.000	53.545	67.900	59.500	54.000	50.500	37.800
38260	DETERGENTS, MBAS (mg/L)	25	0.070	0.010	0.038	0.070	0.045	0.030	0.030	0.013
80154	SUSPENDED SEDIMENT (mg/L)	30	59.000	2.000	17.567	56.250	25.250	8.000	5.750	2.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 19.--*Statistical summary of water-quality data, October 1988 through June 1991*--Continued

Site 14, Flat River at Dam near Bahama

Location.--Latitude 36°08'55", longitude 78°49'43", Durham County, on right bank 900 ft downstream from Durham municipal dam, 3 mi southeast of Bahama, and 5 mi upstream of confluence with Eno River, USGS downstream order number 02086500.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	34	0.040	<0.010	0.015*	0.040	0.020	0.010	0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	9	0.010	<0.010	0.010*	0.010	0.010	0.010	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	34	0.500	<0.100	0.232*	0.400	0.400	0.200	0.100	<0.100
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	34	0.440	<0.100	0.238*	0.420	0.330	0.200	0.130	<0.100
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	33	0.330	<0.010	0.117*	0.280	0.140	0.100	0.060	<0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	32	0.310	0.010	0.106	0.297	0.165	0.085	0.042	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	32	0.940	0.220	0.519	0.907	0.610	0.485	0.397	0.227
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	27	0.990	0.270	0.509	0.890	0.620	0.480	0.390	0.270
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	34	1.000	0.200	0.626	0.925	0.725	0.600	0.500	0.275
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	29	1.000	0.300	0.607	1.000	0.700	0.600	0.500	0.300
00600	NITROGEN, TOTAL (mg/L as N)	32	1.200	0.400	0.850	1.200	1.075	0.900	0.700	0.465
00665	PHOSPHORUS, TOTAL (mg/L as P)	34	0.180	0.020	0.054	0.150	0.060	0.045	0.030	0.020
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	34	0.270	<0.010	0.032*	0.080	0.030	0.020	0.020	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	34	0.100	<0.010	0.025*	0.080	0.030	0.020	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	34	0.240	<0.010	0.023*	0.080	0.030	0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 19.--*Statistical summary of water-quality data, October 198 through June 1991*--Continued

Site 14, Flat River at Dam near Bahama

Location.--Latitude 36°08'55", longitude 78°49'43", Durham County, on right bank 900 ft downstream from Durham municipal dam, 3 mi southeast of Bahama, and 5 mi upstream of confluence with Eno River, USGS downstream order number 02086500.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	13	3,000.000	30.000	603.077	3,000.000	755.000	470.000	130.000	30.000
01002	ARSENIC, TOTAL (µg/L as As)	13	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	13	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	13	3.000	<1.000	--	3.000	2.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	13	2.000	<1.000	0.876*	2.000	1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	13	5.000	2.000	3.385	5.000	4.000	3.000	2.500	2.000
01045	IRON, TOTAL (µg/L as Fe)	13	3,400.000	390.000	1,109.231	3,400.000	1,300.000	980.000	605.000	390.000
01051	LEAD, TOTAL (µg/L as Pb)	13	3.000	<1.000	1.570*	3.000	2.000	1.000	1.000	<5.000
01055	MANGANESE, TOTAL (µg/L as Mn)	13	580.000	70.000	229.231	580.000	360.000	160.000	80.000	70.000
71900	MERCURY, TOTAL (µg/L as Hg)	13	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	13	3.000	<1.000	--	3.000	<1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	13	5.000	<1.000	2.039*	5.000	2.000	2.000	1.000	1.000
01147	SELENIUM, TOTAL (µg/L as Se)	13	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	12	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	13	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 19.--*Statistical summary of water-quality data, October 1988 through June 1991*--Continued

Site 14, Flat River at Dam near Bahama

Location.--Latitude 36°08'55", longitude 78°49'43", Durham County, on right bank 900 ft downstream from Durham municipal dam, 3 mi southeast of Bahama, and 5 mi upstream of confluence with Eno River, USGS downstream order number 02086500.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	33	12.000	4.600	7.612	10.460	8.800	7.900	6.100	4.880
39330	ALDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	8	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	<0.300	<0.200	--	<0.300	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	2	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	2	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 20.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 15, Flat River at Bahama

Location.--Latitude 36°10'57", longitude 78°52'44", Durham County, on right bank 0.5 mi upstream of Lake Michie, 1.2 mi upstream of bridge on Secondary Road 161, 1.2 mi north of Bahama, and 1.5 mi upstream of Dial Creek, USGS downstream order number 02085500.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE, (ft^3/s)	20	4,280.000	0.900	574.540	4,191.001	338.750	117.500	44.250	0.900
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	20	94.000	47.000	72.550	94.000	86.500	68.000	61.250	47.300
00400	pH, FIELD (STANDARD pH UNITS)	19	7.900	6.000	--	7.900	7.300	6.900	6.600	6.000
00010	WATER TEMPERATURE (°C)	19	25.000	5.000	14.474	25.000	19.500	16.000	9.500	5.000
†00080	COLOR (PLATINUM-COBALT UNITS)	14	250.000	25.000	71.929	250.000	112.500	47.500	28.250	25.000
00300	OXYGEN, DISSOLVED (mg/L)	17	13.100	4.800	9.518	13.100	10.850	9.500	8.000	4.800
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	16	106.000	54.000	91.000	106.000	98.500	95.000	86.000	54.000
†00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	13	28.000	16.000	22.385	28.000	28.000	21.000	17.500	16.000
†00915	CALCIUM, DISSOLVED (mg/L as Ca)	14	6.500	3.800	5.150	6.500	6.100	5.200	4.075	3.800
†00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	14	3.200	1.700	2.336	3.200	2.875	2.200	1.775	1.700
†00930	SODIUM, DISSOLVED (mg/L as Na)	14	6.600	3.000	5.136	6.600	6.025	5.400	4.275	3.000
†00935	POTASSIUM, DISSOLVED (mg/L as K)	14	3.700	1.100	2.157	3.700	3.100	1.850	1.450	1.100
†90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	14	35.000	13.000	22.571	35.000	30.000	21.500	14.000	13.000
†00945	SULFATE, DISSOLVED (mg/L as SO_4)	14	6.500	<1.000	4.107*	6.500	5.500	3.300	3.000	2.800
†00940	CHLORIDE, DISSOLVED (mg/L as Cl)	14	10.000	<0.500	5.632*	10.000	7.300	5.200	4.400	3.200
†00950	FLUORIDE, DISSOLVED (mg/L as F)	14	0.300	<0.100	0.143*	0.300	0.200	0.100	<0.100	<0.100
†00955	SILICA, DISSOLVED (mg/L as SiO_2)	14	16.000	6.900	11.150	16.000	14.250	11.000	8.625	6.900
†70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	14	68.000	46.000	58.071	68.000	65.250	55.000	53.500	46.000
80154	SUSPENDED SEDIMENT (mg/L)	17	885.000	4.000	144.882	885.000	214.500	40.000	10.000	4.000

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	43	317.000	0.800	60.898	284.000	92.000	33.000	9.600	3.060
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	42	132.000	34.000	79.500	109.400	93.250	77.500	68.750	39.700
00400	pH, FIELD (STANDARD pH UNITS)	42	7.600	6.400	--	7.470	7.200	7.000	6.875	6.500
00010	WATER TEMPERATURE (°C)	43	27.500	0.500	14.802	26.800	20.500	13.500	9.500	1.800
00076	TURBIDITY (NTU)	41	130.000	4.000	18.707	87.000	16.000	12.000	7.450	5.430
00300	OXYGEN, DISSOLVED (mg/L)	43	14.000	3.200	8.512	12.740	10.700	9.000	5.900	4.120
00310	BOD 5-DAY AT 20 °C (mg/L)	14	2.000	0.400	0.986	2.000	1.225	1.000	0.600	0.400
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	13	36.000	<5.000	26.488*	36.000	30.000	26.000	24.000	21.000
00916	CALCIUM, TOTAL (mg/L as Ca)	1	3.300	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L AS $CaCO_3$)	41	42.000	14.000	26.756	39.800	33.500	26.000	22.000	14.100
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	51.000	<1.000	10.711*	51.000	12.000	8.000	4.000	2.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	210.000	53.000	89.786	210.000	90.250	80.000	68.750	53.000

†Period July 1989 to September 1992.

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 20.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 15, Flat River at Bahama

Location.--Latitude 36°10'57", longitude 78°52'44", Durham County, on right bank 0.5 mi upstream of Lake Michie, 1.2 mi upstream of bridge on Secondary Road 161, 1.2 mi north of Bahama, and 1.5 mi upstream of Dial Creek, USGS downstream order number 02085500.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS (Continued)

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	63	4,280.000	0.800	223.959	1,704.604	106.000	55.000	24.000	1.3200
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	62	132.000	34.000	77.258	105.550	90.250	75.500	65.750	47.900
00400	pH, FIELD (STANDARD pH UNITS)	61	7.900	6.000	--	7.500	7.200	7.000	6.800	6.410
00010	WATER TEMPERATURE (°C)	62	27.500	0.500	14.702	26.000	20.000	14.500	9.500	5.000
00080	COLOR (PLATINUM-COBALT UNITS)	14	250.000	25.000	71.929	250.000	112.500	47.500	28.250	25.000
00076	TURBIDITY (NTU)	41	130.000	4.000	18.707	87.000	16.000	12.000	7.450	5.430
00300	OXYGEN, DISSOLVED (mg/L)	17	760.000	740.000	751.765	760.000	756.000	753.000	749.500	740.000
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	60	14.000	3.200	8.797	12.895	10.775	9.100	7.025	4.610
00310	BOD 5-DAY AT 20 °C (mg/L)	16	106.000	54.000	91.000	106.000	98.500	95.000	86.000	54.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	14	2.000	0.400	0.986	2.000	1.225	1.000	0.600	0.400
00916	CALCIUM, TOTAL (mg/L as Ca)	26	36.000	5.000	23.923	34.250	28.000	25.000	19.750	8.850
00915	CALCIUM, DISSOLVED (mg/L as Ca)	1	3.300	--	--	--	--	--	--	--
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	14	6.500	3.800	5.150	6.500	6.100	5.200	4.075	3.800
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	14	3.200	1.700	2.336	3.200	2.875	2.200	1.775	1.700
00930	SODIUM, DISSOLVED (mg/L as Na)	14	6.600	3.000	5.136	6.600	6.025	5.400	4.275	3.000
00932	SODIUM, PERCENT PERCENT	13	34.000	26.000	30.538	34.000	32.500	30.000	29.500	26.000
00931	SODIUM ADSORPTIO (RATIO)	13	0.500	0.300	0.469	0.500	0.500	0.500	0.450	0.300
00935	POTASSIUM, DISSOLVED (mg/L as K)	14	3.700	1.100	2.157	3.700	3.100	1.850	1.450	1.100
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	14	35.000	13.000	22.571	35.000	30.000	21.500	14.000	13.000
00431	ALKALINITY, TOTAL (mg/L AS $CaCO_3$)	41	42.000	14.000	26.756	39.800	33.500	26.000	22.000	14.100
00945	SULFATE, DISSOLVED (mg/L as SO_4)	14	6.500	<1.000	4.107*	6.500	5.500	3.300	3.000	2.800
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	14	10.000	<0.500	5.632*	10.000	7.300	5.200	4.400	3.200
00950	FLUORIDE, DISSOLVED (mg/L as F)	14	0.300	<0.100	0.143*	0.300	0.200	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	14	16.000	6.900	11.150	16.000	14.250	11.000	8.625	6.900
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	14	68.000	46.000	58.071	68.000	65.250	55.000	53.500	46.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	51.000	<1.000	10.711*	51.000	12.000	8.000	4.000	2.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	210.000	53.000	89.786	210.000	90.250	80.000	68.750	53.000
80154	SUSPENDED SEDIMENT (mg/L)	17	885.000	4.000	144.882	885.000	214.500	40.000	10.000	4.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 20.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 15, Flat River at Bahama

Location.--Latitude 36°10'57", longitude 78°52'44", Durham County, on right bank 0.5 mi upstream of Lake Michie, 1.2 mi upstream of bridge on Secondary Road 161, 1.2 mi north of Bahama, and 1.5 mi upstream of Dial Creek, USGS downstream order number 02085500.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	3	0.030	0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	20	0.600	<0.100	0.321*	0.400	0.400	0.300	0.200	<0.100
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	20	0.140	<0.010	0.051*	0.120	0.060	0.040	0.020	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	19	1.800	0.180	0.621	1.800	0.880	0.500	0.360	0.180
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	20	1.800	<0.200	0.641*	1.100	1.000	0.500	0.300	<0.200
00600	NITROGEN, TOTAL (mg/L as N)	19	2.000	0.400	0.956	2.000	1.400	0.900	0.600	0.400
00665	PHOSPHORUS, TOTAL (mg/L as P)	20	0.250	<0.010	0.078*	0.210	0.100	0.050	0.040	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	20	0.110	<0.010	0.036*	0.080	0.040	0.020	0.020	<0.010

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	43	0.650	0.010	0.267	0.592	0.480	0.220	0.090	0.010
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	43	0.300	<0.010	0.043*	0.080	0.060	0.030	0.020	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	42	0.500	0.160	0.280	0.440	0.350	0.265	0.188	0.170
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	43	0.600	0.200	0.316	0.500	0.400	0.300	0.200	0.200
00600	NITROGEN, TOTAL (mg/L as N)	43	1.100	0.260	0.583	0.986	0.780	0.560	0.400	0.294
00665	PHOSPHORUS, TOTAL (mg/L as P)	43	0.160	0.020	0.055	0.150	0.060	0.040	0.030	0.022
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	37	0.060	<0.010	0.006*	0.030	<0.010	<0.010	<0.010	<0.010

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	3	0.030	0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	63	0.650	<0.010	0.279*	0.560	0.400	0.270	0.120	<0.100
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	63	0.300	<0.010	0.046*	0.110	0.060	0.040	0.020	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	61	1.800	0.160	0.386	0.899	0.440	0.320	0.195	0.171
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	63	1.800	0.200	0.421	1.000	0.500	0.300	0.200	0.200
00600	NITROGEN, TOTAL (mg/L as N)	62	2.000	0.260	0.698	1.400	0.842	0.590	0.442	0.312
00665	PHOSPHORUS, TOTAL (mg/L as P)	63	0.250	0.010	0.063	0.160	0.070	0.050	0.040	0.020
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	57	0.110	<0.010	0.018*	0.080	0.020	<0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 20.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 15, Flat River at Bahama

Location.--Latitude 36°10'57", longitude 78°52'44", Durham County, on right bank 0.5 mi upstream of Lake Michie, 1.2 mi upstream of bridge on Secondary Road 161, 1.2 mi north of Bahama, and 1.5 mi upstream of Dial Creek, USGS downstream order number 02085500.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
†01105	ALUMINUM, TOTAL (µg/L as Al)	14	4,700.000	140.000	1,275.714	4,700.000	1,950.000	510.000	232.500	140.000
†01002	ARSENIC, TOTAL (µg/L as As)	14	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
†01027	CADMIUM, TOTAL (µg/L as Cd)	14	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
†01034	CHROMIUM, TOTAL (µg/L as Cr)	14	6.000	<1.000	2.215*	6.000	4.000	<1.000	<1.000	<1.000
†01037	COBALT, TOTAL (µg/L as Co)	14	3.000	<1.000	1.179*	3.000	2.000	1.000	<1.000	<1.000
†01042	COPPER, TOTAL (µg/L as Cu)	14	7.000	2.000	3.429	7.000	4.500	2.500	2.000	2.000
†01045	IRON, TOTAL (µg/L as Fe)	14	8,300.000	820.000	2,842.143	8,300.000	5,050.000	1,350.000	972.500	820.000
†01051	LEAD, TOTAL (µg/L as Pb)	14	8.000	<1.000	2.597*	8.000	3.000	2.000	1.000	1.000
†01055	MANGANESE, TOTAL (µg/L as Mn)	14	580.000	20.000	165.714	580.000	237.500	100.000	57.500	20.000
†71900	MERCURY, TOTAL (µg/L as Hg)	14	0.200	<0.100	--	0.200	<0.100	<0.100	<0.100	<0.100
†01062	MOLYBDENUM, TOTAL (µg/L as Mo)	14	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
†01067	NICKEL, TOTAL (µg/L as Ni)	14	3.000	<1.000	1.823*	3.000	2.000	2.000	1.000	<1.000
†01147	SELENIUM, TOTAL (µg/L as Se)	14	<2.000	<1.000	--	<2.000	<1.000	<1.000	<1.000	<1.000
†01077	SILVER, TOTAL (µg/L as Ag)	12	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
†01092	ZINC, TOTAL (µg/L as Zn)	14	20.000	<10.000	7.343*	20.000	10.000	<10.000	<10.000	<10.000

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	2	260.000	150.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	14	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	13	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	13	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	1	<50.000	--	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	13	7.000	<2.000	2.628*	7.000	4.000	2.000	<2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	3	990.000	810.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	13	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	1	38.000	--	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	13	10.000	<10.000	--	10.000	<10.000	<10.000	<10.000	<10.000
01077	SILVER, TOTAL (µg/L as Ag)	1	<25.000	--	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	13	10.000	<10.000	--	10.000	<10.000	<10.000	<10.000	<10.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	16	4,700.000	140.000	1,141.875	4,700.000	1,550.000	390.000	217.500	140.000
01002	ARSENIC, TOTAL (µg/L as As)	28	1.000	<1.000	--	<10.000	<10.000	<10.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	27	1.000	<1.000	--	<2.000	<2.000	<2.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	27	6.000	<1.000	2.171*	5.000	<25.000	<25.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	15	3.000	<1.000	1.165*	3.000	2.000	1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	27	7.000	<2.000	3.082*	7.000	4.000	2.000	2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	17	8,300.000	810.000	2,496.471	8,300.000	3,600.000	1,200.000	945.000	810.000
01051	LEAD, TOTAL (µg/L as Pb)	27	8.000	<1.000	2.550*	6.000	2.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	15	580.000	20.000	157.200	580.000	230.000	100.000	50.000	20.000
71900	MERCURY, TOTAL (µg/L as Hg)	28	0.200	<0.100	--	<0.200	<0.200	<0.200	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	14	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	27	10.000	<1.000	2.131*	3.000	2.000	<50.000	<10.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	14	<2.000	<1.000	--	<2.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	13	<25.000	<1.000	--	<25.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	27	20.000	<10.000	6.077*	10.000	<10.000	<10.000	<10.000	<10.000

†Period July 1989 to September 1992.

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 20.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 15, Flat River at Bahama

Location.--Latitude 36°10'57", longitude 78°52'44", Durham County, on right bank 0.5 mi upstream of Lake Michie, 1.2 mi upstream of bridge on Secondary Road 161, 1.2 mi north of Bahama, and 1.5 mi upstream of Dial Creek, USGS downstream order number 02085500.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	20	27.000	3.300	9.065	26.700	12.000	6.000	5.100	3.355
39330	ALDRIN, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	15	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39363	DDD, BTM (µg/kg)	3	0.800	<0.100	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39368	DDE, BTM (µg/kg)	3	1.000	<0.100	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39373	DDT, BTM (µg/kg)	3	0.400	<0.100	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	15	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	15	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	15	<0.010	<0.001	--	<0.010	<0.010	<0.010	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	15	0.001	<0.001	--	0.001	<0.010	<0.010	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	15	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	15	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	3	<10.000	<10.000	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	14	0.400	<0.200	--	0.400	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	14	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	14	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 20.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 15, Flat River at Bahama

Location.--Latitude 36°10'57", longitude 78°52'44", Durham County, on right bank 0.5 mi upstream of Lake Michie. 1.2 mi upstream of bridge on Secondary Road 161, 1.2 mi north of Bahama, and 1.5 mi upstream of Dial Creek, USGS downstream order number 02085500.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	15	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34205	ACENAPHTHENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34200	ACENAPHTHYLENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34220	ANTHRACENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34526	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), TOTAL (µg/L)	5	<10.000	<5.000	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34247	BENZO(A)PYRENE, TOTAL (µg/L)	5	<10.000	<10.000	--	--	--	--	--	--
34230	BENZO(B)FLUORANTHENE, TOTAL (µg/L)	5	<10.000	<10.000	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34521	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), TOTAL (µg/L)	5	<10.000	<10.000	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34242	BENZO(K)FLUORANTHENE, TOTAL (µg/L)	5	<10.000	<10.000	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34292	N-BUTYL BENZYL PHTHALATE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34452	PARACHLOROMETACRESOL, TOTAL (µg/L)	5	<30.000	<30.000	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34320	CHRYSENE, TOTAL (µg/L)	5	<10.000	<10.000	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
39110	DI-N-BUTYL PHTHALATE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34596	DI-N-OCTYL PHTHALATE, TOTAL (µg/L)	5	<10.000	<10.000	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (µg/L)	5	<10.000	<10.000	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34336	DIETHYL PHTHALATE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34341	DIMETHYL PHTHALATE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34657	4,6-DINITRO-ORTHOCRESOL, TOTAL (µg/L)	5	<30.000	<30.000	--	--	--	--	--	--
34376	FLUORANTHENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34381	FLUORENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39700	HEXACHLOROBENZENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39702	HEXACHLOROBUTADIENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34396	HEXACHLOROETHANE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (µg/L)	5	<10.000	<10.000	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34408	ISOPHORONE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34433	N-NITROSODIPHENYLAMINE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34696	NAPHTHALENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34447	NITROBENZENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34438	N-NITROSODIMETHYLAMINE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
39032	PENTACHLOROPHENOL, TOTAL (µg/L)	5	<30.000	<30.000	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34461	PHENANTHRENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 20.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 15, Flat River at Bahama

Location.--Latitude 36°10'57", longitude 78°52'44", Durham County, on right bank 0.5 mi upstream of Lake Michie, 1.2 mi upstream of bridge on Secondary Road 161, 1.2 mi north of Bahama, and 1.5 mi upstream of Dial Creek, USGS downstream order number 02085500.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34694	PHENOL (C6H-50H), TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34469	PYRENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34551	1,2,4-TRICHLOROBENZENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg//L)	15	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	15	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34278	BIS(2-CHLOROETHOXY)METHANE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34273	BIS-2-CHLOROETHYL ETHER, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34283	BIS(2-CHLOROISOPROPYL)ETHER, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34581	2-CHLORONAPHTHALENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34586	2-CHLOROPHENOL, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
39100	BIS(2-ETHYLHEXYL) PHTHALATE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34591	2-NITROPHENOL, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34601	2,4-DICHLOROPHENOL, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34606	2,4-DIMETHYLPHENOL, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34616	2,4-DINITROPHENOL, TOTAL (µg/L)	5	<20.000	<20.000	--	--	--	--	--	--
34611	2,4-DINITROTOLUENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34621	2,4,6-TRICHLOROPHENOL, TOTAL (µg/L)	5	<20.000	<20.000	--	--	--	--	--	--
34626	2,6-DINITROTOLUENE, TOTAL (µg/L)	5	<5.000	<5.000	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34636	4-BROMOPHENYL ETHER, TOTAL (µg/L))	5	<5.000	<5.000	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	2	<200.000	<200.000	--	--	--	--	--	--
34646	4-NITROPHENOL, TOTAL (µg/L)	5	<30.000	<30.000	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	3	1800.000	<200.000	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39011	DISYSTON, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTal (µg/L)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 21.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 16, Lake Michie at Dam near Bahama

Location.--Latitude 36°09'02", longitude 78°49'49", Durham County, at dam, 3.0 mi southeast of Bahama, USGS downstream order number 02086490.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	20	98.000	54.000	71.050	97.500	79.500	71.000	62.000	54.050
00400	pH, FIELD (STANDARD pH UNITS)	19	7.400	5.900	--	7.400	6.900	6.700	6.500	5.900
00010	WATER TEMPERATURE (°C)	19	28.000	10.500	20.658	28.000	25.000	23.000	15.000	10.500
00080	COLOR (PLATINUM-COBALT UNITS)	20	110.000	13.000	45.350	109.500	58.750	40.000	24.750	13.050
00300	OXYGEN, DISSOLVED (mg/L)	19	8.200	0.500	6.353	8.200	7.600	7.000	6.200	0.500
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	19	95.000	5.000	71.263	95.000	85.000	78.000	63.000	5.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	20	26.000	16.000	21.400	25.950	24.750	20.500	18.500	16.050
00915	CALCIUM, DISSOLVED (mg/L as Ca)	20	6.200	3.800	5.065	6.195	5.700	4.900	4.475	3.810
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	20	2.600	1.700	2.145	2.600	2.475	2.150	1.825	1.700
00930	SODIUM, DISSOLVED (mg/L as Na)	20	5.600	3.100	4.510	5.595	5.175	4.500	3.825	3.125
00935	POTASSIUM, DISSOLVED (mg/L as K)	20	2.700	1.400	2.000	2.695	2.300	1.900	1.725	1.410
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	20	30.000	10.000	21.200	29.950	27.000	20.000	17.000	10.100
00945	SULFATE, DISSOLVED (mg/L as SO_4)	20	13.000	3.000	4.835	12.695	5.150	4.200	3.500	3.005
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	20	6.700	3.900	4.970	6.665	5.600	4.900	4.200	3.905
00950	FLUORIDE, DISSOLVED (mg/L as F)	20	0.200	<0.100	0.130*	0.200	0.200	0.100	0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	20	12.000	6.700	9.475	12.000	10.000	9.900	8.575	6.710
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	20	67.000	20.000	50.550	66.800	58.750	53.000	44.000	20.800
38260	DETERGENTS, MBAS (mg/L)	11	0.070	0.020	0.048	0.070	0.060	0.050	0.040	0.020

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 21.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 16, Lake Michie at Dam near Bahama

Location.--Latitude 36°09'02", longitude 78°49'49", Durham County, at dam, 3.0 mi southeast of Bahama, USGS downstream order number 02086490.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	18	0.030	<0.010	0.008*	0.030	0.010	<0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	10	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	18	0.300	<0.050	0.098*	0.300	0.170	<0.100	<0.100	<0.050
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	20	0.360	<0.050	0.101*	0.300	0.110	<0.100	<0.050	<0.050
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	18	0.220	0.010	0.076	0.220	0.110	0.075	0.020	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	20	0.220	0.010	0.078	0.216	0.110	0.080	0.030	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	20	0.890	0.290	0.518	0.890	0.620	0.475	0.392	0.294
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	19	1.100	0.140	0.418	1.100	0.490	0.380	0.280	0.140
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	20	0.900	0.300	0.590	0.900	0.700	0.550	0.500	0.310
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	19	1.100	0.200	0.495	1.100	0.600	0.500	0.400	0.200
00600	NITROGEN, TOTAL (mg/L as N)	20	1.000	0.300	0.664	0.995	0.793	0.700	0.500	0.310
00665	PHOSPHORUS, TOTAL (mg/L as P)	20	0.080	0.010	0.039	0.080	0.047	0.040	0.030	0.010
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	20	0.060	<0.010	0.021*	0.050	0.030	0.020	<0.010	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	18	0.060	<0.010	0.015*	0.060	0.020	<0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	20	0.030	<0.010	0.007*	0.020	<0.010	<0.010	<0.010	<0.010
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	20	21.000	0.500	4.610	20.340	6.200	4.200	1.275	0.510
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	20	1.700	<0.100	0.169*	0.600	<1.000	<0.500	<0.200	<0.100

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 21.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 16, Lake Michie at Dam near Bahama

Location.--Latitude 36°09'02", longitude 78°49'49", Durham County, at dam, 3.0 mi southeast of Bahama, USGS downstream order number 02086490.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	20	4,000.000	<10.000	399.776*	1,100.000	370.000	80.000	50.000	<10.000
01002	ARSENIC, TOTAL (µg/L as As)	20	1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	20	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	20	5.000	<1.000	1.022*	3.000	1.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	20	2.000	<1.000	0.824*	1.000	1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	19	6.000	<1.000	3.323*	6.000	5.000	3.000	2.000	1.000
01045	IRON, TOTAL (µg/L as Fe)	20	5,500.000	130.000	927.000	5,295.003	1,000.000	555.000	335.000	132.000
01051	LEAD, TOTAL (µg/L as Pb)	20	5.000	<1.000	1.800*	4.000	2.000	1.000	1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	20	780.000	40.000	235.000	779.000	400.000	120.000	62.500	40.500
71900	MERCURY, TOTAL (µg/L as Hg)	20	0.200	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	20	4.000	<1.000	--	2.000	<1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	20	6.000	<1.000	1.848*	5.000	2.000	1.000	1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	20	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	19	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	20	20.000	<10.000	6.101*	10.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 21.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 16, Lake Michie at Dam near Bahama

Location.--Latitude 36°09'02", longitude 78°49'49", Durham County, at dam, 3.0 mi southeast of Bahama, USGS downstream order number 02086490.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	19	14.000	5.600	7.832	14.000	8.400	7.600	6.300	5.600
39330	ALDRIN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	10	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	9	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	9	<0.300	<0.200	--	<0.300	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.460	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 21.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 16, Lake Michie at Dam near Bahama

Location.--Latitude 36°09'02", longitude 78°49'49", Durham County, at dam, 3.0 mi southeast of Bahama, USGS downstream order number 02086490.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	1.3	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	0.460	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 22.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 17, Morgan Creek near Farrington

Location.--Latitude 35°51'48", longitude 79°00'35", Chatham County, at bridge on Secondary Road 1726, 2 mi above Cub Creek, 4 mi north of Farrington, USGS downstream order number 02097521.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	43	451.000	12.000	55.186	373.400	38.000	20.000	16.000	13.200
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	43	431.000	40.000	213.047	385.000	288.000	200.000	115.000	50.600
00400	pH, FIELD (STANDARD pH UNITS)	43	7.800	6.400	--	7.680	7.300	7.200	6.900	6.420
00010	WATER TEMPERATURE (°C)	43	25.000	3.000	15.942	25.000	21.500	17.000	11.000	5.200
00076	TURBIDITY (NTU)	20	80.000	3.200	20.140	79.000	24.500	13.500	6.475	3.315
00300	OXYGEN, DISSOLVED (mg/L)	42	11.500	4.800	7.188	10.825	7.850	7.050	5.875	4.945
00310	BOD 5-DAY AT 20 °C (mg/L)	12	2.100	0.600	1.542	2.100	1.975	1.550	1.325	0.600
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	20	65.000	5.000	41.050	64.850	48.750	42.500	31.500	5.800
00916	CALCIUM, TOTAL (mg/L as Ca)	2	8.600	3.900	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	1.500	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	3.400	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L AS $CaCO_3$)	39	95.000	4.000	49.769	91.000	68.000	45.000	30.000	23.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	20	65.000	<1.000	19.942*	57.000	29.000	9.000	4.000	<1.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	13	310.000	140.000	199.231	310.000	255.000	180.000	150.000	140.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 22.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 17, Morgan Creek near Farrington

Location.--Latitude 35°51'48", longitude 79°00'35", Chatham County, at bridge on Secondary Road 1726, 2 mi above Cub Creek, 4 mi north of Farrington, USGS downstream order number 02097521.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	43	7.100	0.320	3.240	6.520	5.100	2.900	1.500	0.554
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	43	0.880	0.010	0.138	0.544	0.140	0.100	0.080	0.020
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	43	1.100	0.280	0.560	0.876	0.730	0.510	0.420	0.292
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	43	1.200	0.400	0.698	1.100	0.800	0.700	0.500	0.400
00600	NITROGEN, TOTAL (mg/L as N)	43	7.900	0.720	3.938	7.280	5.900	3.700	2.200	1.020
00665	PHOSPHORUS, TOTAL (mg/L as P)	43	3.400	0.060	0.313	0.760	0.320	0.190	0.130	0.100
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	37	0.700	<0.010	0.128*	0.520	0.130	0.080	0.050	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 22.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 17, Morgan Creek near Farrington

Location.--Latitude 35°51'48", longitude 79°00'35", Chatham County, at bridge on Secondary Road 1726, 2 mi above Cub Creek, 4 mi north of Farrington, USGS downstream order number 02097521.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	9	2,000.000	100.000	691.111	2,000.000	1,050.000	710.000	160.000	100.000
01002	ARSENIC, TOTAL (µg/L as As)	19	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	18	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	18	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	2	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	18	8.000	<2.000	3.410*	8.000	5.000	3.000	2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	9	3,100.000	170.000	1,253.333	3,100.000	1,600.000	1,400.000	355.000	170.000
01051	LEAD, TOTAL (µg/L as Pb)	18	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	3	370.000	51.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	20	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	18	<50.000	<10.000	--	<50.000	<10.000	<10.000	<10.000	<10.000
01077	SILVER, TOTAL (µg/L as Ag)	2	<25.000	<5.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	18	10.000	<10.000	10.000*	10.000	10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 22.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 17, Morgan Creek near Farrington

Location.--Latitude 35°51'48", longitude 79°00'35", Chatham County, at bridge on Secondary Road 1726, 2 mi above Cub Creek, 4 mi north of Farrington, USGS downstream order number 02097521.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39330	ALDRIN, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	7	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	7	0.050	0.010	0.023	0.050	0.040	0.020	0.010	0.010
39380	DIELDRIN, TOTAL (µg/L)	7	0.001	<0.001	--	0.001	0.001	0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	7	0.001	<0.001	--	0.001	0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	7	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	7	0.008	0.002	0.005	0.008	0.006	0.005	0.003	0.002
39530	MALATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	7	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	7	1.200	0.200	0.400	1.200	0.400	0.300	0.200	0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	7	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	7	0.200	<0.200	--	0.200	0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39023	PHORATE, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39040	DEF, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 23.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 18, New Hope Creek near Blands

Location.--Latitude 35°53'05", longitude 78°57'58", Durham County, on right bank 15 ft downstream from bridge on Secondary Road 1107, 0.5 mi southwest of Blands, and 2 mi downstream from Third Fork Creek, USGS downstream order number 02097314.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	1	206.000	--	--	--	--	--	--	--
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	1	140.000	--	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	1	6.900	--	--	--	--	--	--	--
00010	WATER TEMPERATURE (°C)	1	11.500	--	--	--	--	--	--	--
00080	COLOR (PLATINUM-COBALT UNITS)	1	130.000	--	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	1	7.800	--	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	1	72.000	--	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	1	38.000	--	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	1	10.000	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	1	3.100	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	1	11.000	--	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	1	2.700	--	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	1	32.000	--	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	1	15.000	--	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	1	11.000	--	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	1	0.200	--	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	1	7.300	--	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	1	95.000	--	--	--	--	--	--	--
80154	SUSPENDED SEDIMENT (mg/L)	1	66.000	--	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	44	613.000	8.300	95.877	484.250	92.250	35.500	19.250	8.775
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	44	430.000	71.000	225.568	381.000	326.000	216.000	153.500	87.500
00400	pH, FIELD (STANDARD pH UNITS)	43	9.000	6.400	--	7.400	7.100	7.000	6.800	6.400
00010	WATER TEMPERATURE (°C)	44	27.500	4.000	17.091	26.000	23.500	17.750	11.875	6.125
00076	TURBIDITY (NTU)	22	75.000	4.200	25.127	72.750	31.750	21.000	12.125	4.455
00300	OXYGEN, DISSOLVED (mg/L)	44	11.600	4.400	7.345	10.725	8.550	7.050	6.025	4.775
00310	BOD 5-DAY AT 20 °C (mg/L)	36	7.200	1.000	2.200	4.310	2.475	2.000	1.600	1.085
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	19	73.000	20.000	46.474	73.000	53.000	47.000	38.000	20.000
00916	CALCIUM, TOTAL (mg/L as Ca)	2	14.000	7.400	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	4.400	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	35.000	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L as $CaCO_3$)	40	67.000	3.000	37.850	62.650	47.000	37.000	29.000	18.100
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	44	120.000	1.000	34.455	115.000	46.250	24.500	14.500	1.500
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	37	350.000	89.000	224.838	341.000	275.000	210.000	180.000	125.900

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	45	613.000	8.300	98.324	476.299	96.500	36.000	19.500	8.790
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	45	430.000	71.000	223.667	380.200	324.000	216.000	150.000	87.600
00400	pH, FIELD (STANDARD pH UNITS)	44	9.000	6.400	--	7.400	7.100	6.950	6.800	6.400
00010	WATER TEMPERATURE (°C)	45	27.500	4.000	16.967	26.000	23.000	17.500	11.500	6.150
00080	COLOR (PLATINUM-COBALT UNITS)	1	130.000	--	--	--	--	--	--	--
00076	TURBIDITY (NTU)	22	75.000	4.200	25.127	72.750	31.750	21.000	12.125	4.455
00300	OXYGEN, DISSOLVED (mg/L)	45	11.600	4.400	7.356	10.710	8.500	7.100	6.050	4.790
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	1	72.000	--	--	--	--	--	--	--
00310	BOD 5-DAY AT 20 °C (mg/L)	36	7.200	1.000	2.200	4.310	2.475	2.000	1.600	1.085
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	20	73.000	20.000	46.050	72.800	52.750	46.000	38.000	20.450
00916	CALCIUM, TOTAL (mg/L as Ca)	2	14.000	7.400	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	1	10.000	--	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	4.400	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	1	3.100	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	35.000	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	1	11.000	--	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	1	2.700	--	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	1	32.000	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L AS $CaCO_3$)	40	67.000	3.000	37.850	62.650	47.000	37.000	29.000	18.100
00945	SULFATE, DISSOLVED (mg/L as SO_4)	1	15.000	--	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	1	11.000	--	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	1	0.200	--	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	1	7.300	--	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	1	95.000	--	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	44	120.000	1.000	34.455	115.000	46.250	24.500	14.500	1.500
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	37	350.000	89.000	224.838	341.000	275.000	210.000	180.000	125.900
80154	SUSPENDED SEDIMENT (mg/L)	1	66.000	--	--	--	--	--	--	--

Table 23.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 18, New Hope Creek near Blands

Location.--Latitude 35°53'05", longitude 78°57'58", Durham County, on right bank 15 ft downstream from bridge on Secondary Road 1107, 0.5 mi southwest of Blands, and 2 mi downstream from Third Fork Creek, USGS downstream order number 02097314.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	44	17.000	0.390	5.901	13.750	9.775	4.400	2.425	0.580
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	44	0.870	0.010	0.120	0.275	0.110	0.070	0.032	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	44	1.200	0.360	0.638	1.175	0.820	0.560	0.480	0.368
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	44	1.500	0.400	0.736	1.300	0.900	0.650	0.500	0.400
00600	NITROGEN, TOTAL (mg/L as N)	44	18.000	0.790	6.657	14.750	10.750	4.950	2.975	1.125
00665	PHOSPHORUS, TOTAL (mg/L as P)	44	2.000	0.050	0.512	1.725	0.715	0.335	0.213	0.120
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	38	1.800	0.010	0.354	1.610	0.493	0.215	0.070	0.019
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	1	11.000	--	--	--	--	--	--	--
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	1	8.000	--	--	--	--	--	--	--

Table 23.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 18, New Hope Creek near Blands

Location.--Latitude 35°53'05", longitude 78°57'58", Durham County, on right bank 15 ft downstream from bridge on Secondary Road 1107, 0.5 mi southwest of Blands, and 2 mi downstream from Third Fork Creek, USGS downstream order number 02097314.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	1	2,400.000	--	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	1	<1.000	--	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	1	4.000	--	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	1	1.000	--	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	1	3.000	--	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	1	2,800.000	--	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	1	5.000	--	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	1	210.000	--	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	1	<0.100	--	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	1	1.000	--	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	1	4.000	--	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	1	<1.000	--	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	1	<1.000	--	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	1	30.000	--	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	8	2,300.000	60.000	1,040.000	2,300.000	1,700.000	955.000	262.500	60.000
01002	ARSENIC, TOTAL (µg/L as As)	20	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	19	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	19	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	2	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	19	13.000	<10.000	6.229*	13.000	8.000	5.000	4.000	3.000
01045	IRON, TOTAL (µg/L as Fe)	10	5,300.000	250.000	1,908.000	5,300.000	2,525.000	1,800.000	680.000	250.000
01051	LEAD, TOTAL (µg/L as Pb)	19	15.000	<10.000	--	15.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	2	180.000	47.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	20	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	19	17.000	<10.000	--	17.000	<10.000	<10.000	<10.000	<10.000
01077	SILVER, TOTAL (µg/L as Ag)	2	<25.000	<5.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	19	170.000	2.000	30.105	170.000	30.000	20.000	20.000	2.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	9	2,400.000	60.000	1,191.111	2,400.000	2,000.000	1,300.000	325.000	60.000
01002	ARSENIC, TOTAL (µg/L as As)	20	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	20	<2.000	<1.000	--	<2.000	<2.000	<2.000	<2.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	20	4.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	3	1.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	20	13.000	<10.000	6.059*	10.000	8.000	5.000	3.000	<10.000
01045	IRON, TOTAL (µg/L as Fe)	11	5,300.000	250.000	1,989.091	5,300.000	2,800.000	2,100.000	690.000	250.000
01051	LEAD, TOTAL (µg/L as Pb)	20	15.000	<10.000	--	5.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	3	210.000	47.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	21	<0.200	<0.100	--	<0.200	<0.200	<0.200	<0.200	<0.200
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	1	1.000	--	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	20	17.000	<10.000	--	11.000	<10.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	1	<1.000	--	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	3	<25.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	20	170.000	2.000	30.100	164.000	30.000	20.000	20.000	2.400

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 23.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 18, New Hope Creek near Blands

Location.--Latitude 35°53'05", longitude 78°57'58", Durham County, on right bank 15 ft downstream from bridge on Secondary Road 1107, 0.5 mi southwest of Blands, and 2 mi downstream from Third Fork Creek, USGS downstream order number 02097314.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	1	14.000	--	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	9	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	8	0.080	<0.010	0.027*	0.080	0.040	0.010	0.010	0.010
39380	DIELDRIN, TOTAL (µg/L)	9	0.003	<0.010	0.002*	0.003	0.002	0.001	0.001	0.001
39388	ENDOSULFAN, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	9	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	9	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	9	0.001	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	9	0.018	<0.010	0.007*	0.018	0.010	0.003	0.002	0.001
39530	MALATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	9	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	9	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	0.900	<0.200	0.424*	0.900	0.500	0.300	0.200	0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	5.200	0.500	2.213	5.200	3.075	1.700	1.275	0.500
34418	METHYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	1.600	<0.200	0.915*	1.600	1.200	0.900	0.400	0.400
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	<0.300	<0.200	--	<0.300	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	3	0.020	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 24.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 19, Northeast Creek at Secondary Road 1100 near Genlee

Location.--Latitude 35°52'20", longitude 78°54'49", Durham County, on left bank at downstream side of bridge on Secondary Road 1100, 1.3 mi west of Genlee, and 1.6 mi downstream from Burden Creek, USGS downstream order number 0209741955.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	6	474.000	16.000	184.833	474.000	414.000	98.500	25.000	16.000
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	5	211.000	102.000	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	6	7.000	6.700	--	7.000	7.000	7.000	6.700	6.700
00010	WATER TEMPERATURE (°C)	6	22.500	10.000	16.917	22.500	19.875	18.000	13.000	10.000
00080	COLOR (PLATINUM-COBALT UNITS)	5	230.000	40.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	4	9.200	4.700	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	3	82.000	51.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	56.000	31.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	14.000	8.100	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	5.200	2.500	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	66.000	7.200	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	8.300	2.300	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	41.000	25.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	46.000	8.600	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	73.000	7.800	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.900	0.200	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	12.000	4.600	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	298.000	81.000	--	--	--	--	--	--
80154	SUSPENDED SEDIMENT (mg/L)	4	202.000	65.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	43	392.000	0.720	33.080	265.601	20.000	10.000	6.500	3.720
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	43	550.000	50.000	300.698	521.200	420.000	315.000	192.000	67.200
00400	pH, FIELD (STANDARD pH UNITS)	43	7.500	5.900	--	7.480	7.100	6.900	6.800	6.400
00010	WATER TEMPERATURE (°C)	43	27.000	4.500	16.651	25.000	22.000	17.500	12.000	5.300
00076	TURBIDITY (NTU)	21	140.000	4.900	39.567	140.000	40.000	22.000	17.000	5.610
00300	OXYGEN, DISSOLVED (mg/L)	43	12.000	4.000	7.105	11.120	8.300	6.500	5.800	4.500
00310	BOD 5-DAY AT 20 °C (mg/L)	12	3.300	0.800	1.400	3.300	1.775	1.200	0.825	0.800
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	19	99.000	32.000	67.526	99.000	82.000	67.000	57.000	32.000
00916	CALCIUM, TOTAL (mg/L as Ca)	2	20.000	1.700	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	2	5.900	5.100	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	2	51.000	34.000	--	--	--	--	--	--
00431	ALKALINITY, TOTAL (mg/L AS $CaCO_3$)	39	73.000	4.000	38.128	64.000	45.000	38.000	30.000	12.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	20	110.000	3.000	32.850	109.350	51.500	25.000	5.500	3.050
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	13	410.000	180.000	300.000	410.000	360.000	290.000	250.000	180.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	49	474.000	0.720	51.662	393.000	31.500	12.000	7.100	3.750
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	48	550.000	50.000	283.979	510.200	416.500	286.000	146.250	68.700
00400	pH, FIELD (STANDARD pH UNITS)	49	7.500	5.900	--	7.450	7.100	6.900	6.800	6.400
00010	WATER TEMPERATURE (°C)	49	27.000	4.500	16.684	25.000	22.000	18.000	12.250	5.750
00080	COLOR (PLATINUM-COBALT UNITS)	5	230.000	40.000	--	--	--	--	--	--
00076	TURBIDITY (NTU)	21	140.000	4.900	39.567	140.000	40.000	22.000	17.000	5.610
00300	OXYGEN, DISSOLVED (mg/L)	47	12.000	4.000	7.068	11.040	8.300	6.500	5.700	4.520
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	3	82.000	51.000	--	--	--	--	--	--
00310	BOD 5-DAY AT 20 °C (mg/L)	12	3.300	0.800	1.400	3.300	1.775	1.200	0.825	0.800
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	24	99.000	31.000	62.042	97.750	74.000	61.500	51.250	31.250
00916	CALCIUM, TOTAL (mg/L as Ca)	2	20.000	1.700	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	14.000	8.100	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	2	5.900	5.100	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	5.200	2.500	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	2	51.000	34.000	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	66.000	7.200	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	8.300	2.300	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	41.000	25.000	--	--	--	--	--	--
00431	ALKALINITY, TOTAL (mg/L AS $CaCO_3$)	39	73.000	4.000	38.128	64.000	45.000	38.000	30.000	12.000
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	46.000	8.600	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	73.000	7.800	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.900	0.200	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	12.000	4.600	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	298.000	81.000	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	20	110.000	3.000	32.850	109.350	51.500	25.000	5.500	3.050
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	13	410.000	180.000	300.000	410.000	360.000	290.000	250.000	180.000
80154	SUSPENDED SEDIMENT (mg/L)	4	202.000	65.000	--	--	--	--	--	--

Table 24.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 19, Northeast Creek at Secondary Road 1100 near Genlee

Location.--Latitude 35°52'20", longitude 78°54'49", Durham County, on left bank at downstream side of bridge on Secondary Road 1100, 1.3 mi west of Genlee, and 1.6 mi downstream from Burden Creek, USGS downstream order number 0209741955.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	3	0.020	0.020	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	2	0.010	0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	3	1.300	0.700	--	--	--	--	--	--
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	2	1.300	0.840	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	3	0.150	0.020	--	--	--	--	--	--
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	2	0.100	0.070	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	4	0.750	0.500	--	--	--	--	--	--
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	2	0.400	0.330	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	4	0.900	0.600	--	--	--	--	--	--
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	2	0.500	0.400	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	4	2.000	1.400	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	4	0.230	0.140	--	--	--	--	--	--
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	2	0.170	0.030	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	3	0.080	0.040	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	2	0.140	0.030	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	43	18.000	0.150	6.940	15.400	11.000	6.900	3.100	0.226
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	43	0.370	0.010	0.078	0.292	0.090	0.050	0.030	0.020
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	43	1.100	0.250	0.618	0.940	0.730	0.600	0.480	0.350
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	43	1.400	0.300	0.695	1.000	0.800	0.700	0.500	0.400
00600	NITROGEN, TOTAL (mg/L as N)	43	19.000	0.710	7.673	16.400	12.000	7.800	3.600	0.794
00665	PHOSPHORUS, TOTAL (mg/L as P)	43	1.200	0.090	0.471	1.160	0.660	0.330	0.220	0.160
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	37	1.100	0.020	0.369	0.902	0.595	0.220	0.150	0.065

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	3	0.020	0.020	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	2	0.010	0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	46	18.000	0.150	6.560	14.950	11.000	6.650	1.475	0.261
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	2	1.300	0.840	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	46	0.370	0.010	0.078	0.271	0.100	0.055	0.030	0.020
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	2	0.100	0.070	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	47	1.100	0.250	0.618	0.930	0.730	0.600	0.500	0.350
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	2	0.400	0.330	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	47	1.400	0.300	0.696	1.000	0.800	0.700	0.600	0.400
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	2	0.500	0.400	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	47	19.000	0.710	7.167	15.800	12.000	7.200	2.000	0.808
00665	PHOSPHORUS, TOTAL (mg/L as P)	47	1.200	0.090	0.446	1.120	0.650	0.320	0.220	0.144
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	2	0.170	0.030	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	40	1.100	0.020	0.345	0.878	0.575	0.205	0.123	0.040
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	2	0.140	0.030	--	--	--	--	--	--

Table 24.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 19, Northeast Creek at Secondary Road 1100 near Genlee

Location.--Latitude 35°52'20", longitude 78°54'49", Durham County, on left bank at downstream side of bridge on Secondary Road 1100, 1.3 mi west of Genlee, and 1.6 mi downstream from Burden Creek, USGS downstream order number 0209741955.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	5	2,500.000	720.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	4	1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	5	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	5	11.000	<1.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	5	2.000	1.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	11.000	4.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	5	2,900.000	910.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	5	8.000	2.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	5	380.000	110.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	5	0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	21.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	4.000	3.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	5	1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	5	100.000	20.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	9	3,000.000	180.000	1,144.444	3,000.000	1,500.000	1,000.000	560.000	180.000
01002	ARSENIC, TOTAL (µg/L as As)	19	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	19	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	19	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	2	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	19	33.000	4.000	13.526	33.000	17.000	13.000	9.000	4.000
01045	IRON, TOTAL (µg/L as Fe)	11	2,700.000	340.000	1,140.909	2,700.000	1,400.000	1,000.000	600.000	340.000
01051	LEAD, TOTAL (µg/L as Pb)	19	11.000	<10.000	--	11.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	3	150.000	60.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	20	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	19	13.000	<10.000	--	13.000	<10.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	2	<5.000	<5.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	3	860.000	<5.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	19	980.000	<10.000	91.866*	980.000	50.000	50.000	30.000	10.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	14	3,000.000	180.000	1,415.714	3,000.000	2,075.000	1,300.000	707.500	180.000
01002	ARSENIC, TOTAL (µg/L as As)	23	1.000	<1.000	--	1.000	<10.000	<10.000	<10.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	24	<2.000	<1.000	--	<2.000	<2.000	<2.000	<2.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	24	11.000	<1.000	--	5.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	7	2.000	<50.000	1.583*	2.000	2.000	1.000	<50.000	<50.000
01042	COPPER, TOTAL (µg/L as Cu)	24	33.000	4.000	12.542	29.250	15.000	11.000	9.000	4.000
01045	IRON, TOTAL (µg/L as Fe)	16	2,900.000	340.000	1,510.000	2,900.000	2,600.000	1,200.000	820.000	340.000
01051	LEAD, TOTAL (µg/L as Pb)	24	11.000	<10.000	4.346*	8.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	8	380.000	60.000	176.250	380.000	265.000	155.000	80.000	60.000
71900	MERCURY, TOTAL (µg/L as Hg)	25	0.100	<0.100	--	<0.200	<0.200	<0.200	<0.200	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	21.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	24	13.000	<10.000	4.100*	4.000	<50.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	7	1.000	<1.000	--	1.000	<5.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	8	860.000	<1.000	--	860.000	<5.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	24	980.000	10.000	82.083	765.000	50.000	40.000	30.000	10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 24.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 19, Northeast Creek at Secondary Road 1100 near Genlee

Location.--Latitude 35°52'20", longitude 78°54'49", Durham County, on left bank at downstream side of bridge on Secondary Road 1100, 1.3 mi west of Genlee, and 1.6 mi downstream from Burden Creek, USGS downstream order number 0209741955.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	5	25.000	9.000	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	12	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	12	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	12	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	12	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	12	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	10	1.000	<0.010	0.123*	1.000	0.040	0.020	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	12	0.001	<0.001	0.001*	0.001	0.001	<0.010	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	12	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	12	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	12	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	12	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	12	0.002	<0.001	--	0.002	<0.010	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	12	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	12	0.016	<0.010	0.006*	0.016	0.007	0.003	0.001	<0.010
39530	MALATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	12	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	12	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	12	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	12	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	6.900	<0.200	1.286*	6.900	0.900	0.300	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	2.500	<0.200	1.164*	2.500	1.500	0.900	0.400	0.400
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	3.000	0.200	1.825	3.000	2.725	1.950	0.850	0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	2.000	<0.200	0.936*	2.000	1.400	0.500	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	1.100	<0.200	--	1.100	0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	5	0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	4	0.470	<0.050	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	4	0.080	<0.050	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 24.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 19, Northeast Creek at Secondary Road 1100 near Genlee

Location.--Latitude 35°52'20", longitude 78°54'49", Durham County, on left bank at downstream side of bridge on Secondary Road 1100, 1.3 mi west of Genlee, and 1.6 mi downstream from Burden Creek, USGS downstream order number 0209741955.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	4	<0.200	<0.200	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	4	0.070	<0.050	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	4	0.380	0.050	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	4	0.050	<0.050	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	4	<0.050	<0.050	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 25.--*Statistical summary of water-quality data, October 1988 through July 1992*

Site 20, Jordan Lake at Buoy 9 near Farrington

Location.--Latitude 35°46'30", longitude 79°01'38", Chatham County, at buoy 9, and 2.0 mi south-southwest of Farrington, USGS downstream order number 0209771550.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	6	180.000	142.000	152.500	180.000	160.500	148.000	142.750	142.000
00400	pH, FIELD (STANDARD pH UNITS)	6	8.500	6.500	--	8.500	8.275	7.200	6.725	6.500
00010	WATER TEMPERATURE (°C)	6	29.500	6.500	19.833	29.500	24.625	20.500	15.875	6.500
00080	COLOR (PLATINUM-COBALT UNITS)	5	42.000	14.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	5	12.000	8.200	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	5	130.000	86.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	31.000	28.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	7.700	7.000	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	2.900	2.600	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	18.000	14.000	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	3.100	2.900	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	36.000	31.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	17.000	14.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	14.000	11.000	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.300	<0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	4.800	2.300	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	90.000	72.000	--	--	--	--	--	--
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	1	79.000	--	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	1	86.000	--	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	1	99.000	--	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	1	100.000	--	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	1	100.000	--	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	13	135.000	96.000	114.154	135.000	128.500	109.000	105.500	96.000
00400	pH, FIELD (STANDARD pH UNITS)	13	8.900	6.600	--	8.900	8.600	7.400	7.000	6.600
00010	WATER TEMPERATURE (°C)	13	29.500	15.500	23.885	29.500	28.000	26.500	19.250	15.500
00300	OXYGEN, DISSOLVED (mg/L)	13	12.500	5.500	8.715	12.500	10.550	7.900	7.300	5.500
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	13	11.000	3.000	8.538	11.000	10.500	8.000	7.500	3.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	150.000	77.000	98.500	150.000	110.000	93.500	83.500	77.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	19	180.000	96.000	126.263	180.000	143.000	128.000	106.000	96.000
00400	pH, FIELD (STANDARD pH UNITS)	19	8.900	6.500	--	8.900	8.400	7.400	6.900	6.500
00010	WATER TEMPERATURE (°C)	19	29.500	6.500	22.605	29.500	28.000	23.000	19.000	6.500
00080	COLOR (PLATINUM-COBALT UNITS)	5	42.000	14.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	18	12.500	5.500	9.183	12.500	11.050	8.950	7.400	5.500
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	5	130.000	86.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	31.000	28.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	7.700	7.000	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	2.900	2.600	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	18.000	14.000	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	3.100	2.900	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	36.000	31.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	17.000	14.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	14.000	11.000	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.300	<0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	4.800	2.300	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	90.000	72.000	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	13	11.000	3.000	8.538	11.000	10.500	8.000	7.500	3.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	150.000	77.000	98.500	150.000	110.000	93.500	83.500	77.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 25.--*Statistical summary of water-quality data, October 1988 through July 1992*--Continued

Site 20, Jordan Lake at Buoy 9 near Farrington

Location.--Latitude 35°46'30", longitude 79°01'38", Chatham County, at buoy 9, and 2.0 mi south-southwest of Farrington, USGS downstream order number 0209771550.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.020	<0.010	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	5	0.010	<0.010	--	--	--	--	--	--
00630	NO_2 + NO_3, TOTAL (mg/L as N)	4	0.290	<0.050	--	--	--	--	--	--
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	5	0.310	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	4	0.150	0.020	--	--	--	--	--	--
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	5	0.130	<0.010	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	5	0.880	0.470	--	--	--	--	--	--
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	4	0.390	0.270	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	5	0.900	0.500	--	--	--	--	--	--
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	5	0.500	0.300	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	5	1.200	0.580	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	5	0.070	0.020	--	--	--	--	--	--
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	5	0.060	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	4	0.030	<0.010	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	5	0.020	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	5	8.700	0.900	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	5	0.500	<0.100	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	NO_2 + NO_3, TOTAL (mg/L as N)	14	0.160	<0.010	0.048*	0.160	0.120	<0.010	<0.010	<0.010
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	14	0.110	0.010	0.046	0.110	0.082	0.030	0.020	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	14	0.570	0.310	0.454	0.570	0.513	0.475	0.380	0.310
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	14	0.600	0.400	0.500	0.600	0.600	0.500	0.400	0.400
00600	NITROGEN, TOTAL (mg/L as N)	14	0.650	0.400	0.546	0.650	0.612	0.550	0.500	0.400
00665	PHOSPHORUS, TOTAL (mg/L as P)	14	0.070	0.020	0.049	0.070	0.063	0.050	0.040	0.020
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	14	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	14	59.000	15.000	34.857	59.000	51.500	33.500	19.250	15.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	14	56.000	13.000	32.071	56.000	48.500	31.000	17.000	13.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.020	<0.010	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	5	0.010	<0.010	--	--	--	--	--	--
00630	NO_2 + NO_3, TOTAL (mg/L as N)	18	0.290	<0.010	0.059*	0.290	0.120	<0.050	<0.010	<0.010
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	5	0.310	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	18	0.150	0.010	0.048	0.150	0.082	0.030	0.020	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	5	0.130	<0.010	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	19	0.880	0.310	0.522	0.880	0.570	0.480	0.390	0.310
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	4	0.390	0.270	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	19	0.900	0.400	0.568	0.900	0.600	0.500	0.500	0.400
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	5	0.500	0.300	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	19	1.200	0.400	0.625	1.200	0.650	0.600	0.500	0.400
00665	PHOSPHORUS, TOTAL (mg/L as P)	19	0.070	0.020	0.047	0.070	0.060	0.050	0.040	0.020
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	5	0.060	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	18	0.030	<0.010	--	0.030	<0.010	<0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	5	0.020	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	5	8.700	0.900	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	5	0.500	<0.100	--	--	--	--	--	--
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	14	59.000	15.000	34.857	59.000	51.500	33.500	19.250	15.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	14	56.000	13.000	32.071	56.000	48.500	31.000	17.000	13.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 25.--*Statistical summary of water-quality data, October 1988 through July 1992*--Continued

Site 20, Jordan Lake at Buoy 9 near Farrington

Location.--Latitude 35°46'30", longitude 79°01'38", Chatham County, at buoy 9, and 2.0 mi south-southwest of Farrington, USGS downstream order number 0209771550.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	5	310.000	40.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	5	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	5	1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	5	2.000	<1.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	5	<1.000	<1.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	7.000	1.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	5	650.000	60.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	5	22.000	<1.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	5	470.000	20.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	5	<0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	3.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	3.000	<1.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	5	10.000	<10.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	14	410.000	<50.000	144.962*	410.000	190.000	120.000	80.000	<50.000
01027	CADMIUM, TOTAL (µg/L as Cd)	4	<2.000	<2.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	5	<25.000	<25.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	3	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	4	2.000	<2.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	3	210.000	50.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	4	<10.000	<10.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	14	280.000	48.000	100.929	280.000	122.500	103.500	53.750	48.000
71900	MERCURY, TOTAL (µg/L as Hg)	4	<0.200	<0.200	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	4	<10.000	<10.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	5	<10.000	<10.000	--	--	--	--	--	--

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	19	410.000	<50.000	136.095*	410.000	190.000	120.000	50.000	<50.000
01002	ARSENIC, TOTAL (µg/L as As)	5	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	9	1.000	<1.000	--	1.000	<2.000	<2.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	10	2.000	<1.000	--	2.000	2.000	<25.000	<25.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	8	<50.000	<1.000	--	<50.000	<50.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	9	7.000	<2.000	2.413*	7.000	3.000	2.000	<2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	8	650.000	50.000	202.500	650.000	255.000	135.000	72.500	50.000
01051	LEAD, TOTAL (µg/L as Pb)	9	22.000	<1.000	--	22.000	3.000	<10.000	<10.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	19	470.000	20.000	120.158	470.000	130.000	100.000	54.000	20.000
71900	MERCURY, TOTAL (µg/L as Hg)	9	<0.200	<0.100	--	<0.200	<0.200	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	3.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	9	3.000	<1.000	--	3.000	1.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	10	10.000	<10.000	--	10.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 25.--*Statistical summary of water-quality data, October 1988 through July 1992*--Continued

Site 20, Jordan Lake at Buoy 9 near Farrington

Location.--Latitude 35°46'30", longitude 79°01'38", Chatham County, at buoy 9, and 2.0 mi south-southwest of Farrington, USGS downstream order number 0209771550.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	5	11.000	8.000	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	1	4.000	--	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	1	1.000	--	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	11	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	1	0.100	--	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	1	0.200	--	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	11	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	1	1.000	--	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	11	0.001	<0.001	--	0.001	0.001	<0.001	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	11	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	10	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	10	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 25.--*Statistical summary of water-quality data, October 1988 through July 1992*--Continued

Site 20, Jordan Lake at Buoy 9 near Farrington

Location.--Latitude 35°46'30", longitude 79°01'38", Chatham County, at buoy 9, and 2.0 mi south-southwest of Farrington, USGS downstream order number 0209771550.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg//L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTal (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.230	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 26.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 21, Jordan Lake at Buoy 7 below U.S. Highway 64 near Griffins Crossroads

Location.--Latitude 35°44'39", longitude 79°00'29", Chatham County, 600 ft south of U.S. Highway 64, and 3.2 mi east-southeast of Griffins Crossroads, USGS downstream order number 0209801050.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	5	179.000	148.000	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	5	9.000	6.900	--	--	--	--	--	--
00010	WATER TEMPERATURE (°C)	5	30.000	7.000	--	--	--	--	--	--
00080	COLOR (PLATINUM-COBALT UNITS)	5	30.000	13.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	5	11.100	8.700	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	5	122.000	81.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	30.000	28.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	7.500	6.900	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.100	2.600	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	18.000	16.000	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	3.200	3.000	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	36.000	30.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	18.000	15.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	14.000	12.000	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.300	0.200	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	4.900	2.300	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	96.000	77.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	13	146.000	98.000	117.308	146.000	129.000	110.000	107.500	98.000
00400	pH, FIELD (STANDARD pH UNITS)	13	9.400	6.600	--	9.400	8.350	7.600	7.050	6.600
00010	WATER TEMPERATURE (°C)	13	29.000	16.000	23.923	29.000	28.000	26.000	19.250	16.000
00300	OXYGEN, DISSOLVED (mg/L)	13	12.700	4.800	8.985	12.700	10.150	8.700	8.000	4.800

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	18	179.000	98.000	128.222	179.000	148.500	124.000	108.750	98.000
00400	pH, FIELD (STANDARD pH UNITS)	18	9.400	6.600	--	9.400	8.450	7.600	6.975	6.600
00010	WATER TEMPERATURE (°C)	18	30.000	7.000	23.000	30.000	28.000	24.250	19.500	7.000
00080	COLOR (PLATINUM-COBALT UNITS)	5	30.000	13.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	18	12.700	4.800	9.256	12.700	10.625	9.000	8.500	4.800
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	5	122.000	81.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	30.000	28.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	7.500	6.900	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.100	2.600	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	18.000	16.000	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	3.200	3.000	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	36.000	30.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	18.000	15.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	14.000	12.000	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.300	0.200	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	4.900	2.300	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	96.000	77.000	--	--	--	--	--	--

Table 26.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 21, Jordan Lake at Buoy 7 below U.S. Highway 64 near Griffins Crossroads

Location.--Latitude 35°44'39", longitude 79°00'29", Chatham County, 600 ft south of U.S. Highway 64, and 3.2 mi east-southeast of Griffins Crossroads, USGS downstream order number 0209801050.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.020	0.010	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	5	0.020	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	4	0.290	<0.050	--	--	--	--	--	--
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	5	0.300	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	4	0.110	<0.010	--	--	--	--	--	--
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	5	0.100	<0.010	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	5	0.770	0.470	--	--	--	--	--	--
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	4	0.480	0.290	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	5	0.800	0.500	--	--	--	--	--	--
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	5	0.500	0.300	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	5	1.100	0.600	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	5	0.060	0.020	--	--	--	--	--	--
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	5	0.020	<0.010	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	4	0.020	<0.010	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	5	0.020	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL *A*, PHYTOPLANKTON (µg/L)	4	7.100	1.000	--	--	--	--	--	--
70954	CHLOROPHYLL *B*, PHYTOPLANKTON (µg/L)	4	<0.700	<0.100	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 26.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 21, Jordan Lake at Buoy 7 below U.S. Highway 64 near Griffins Crossroads

Location.--Latitude 35°44'39", longitude 79°00'29", Chatham County, 600 ft south of U.S. Highway 64, and 3.2 mi east-southeast of Griffins Crossroads, USGS downstream order number 0209801050.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	5	300.000	40.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	5	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	5	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	5	2.000	1.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	5	<1.000	<1.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	8.000	1.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	5	570.000	60.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	5	12.000	<1.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	5	390.000	20.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	5	<0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	2.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	2.000	1.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	5	10.000	<10.000	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 26.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 21, Jordan Lake at Buoy 7 below U.S. Highway 64 near Griffins Crossroads

Location.--Latitude 35°44'39", longitude 79°00'29", Chatham County, 600 ft south of U.S. Highway 64, and 3.2 mi east-southeast of Griffins Crossroads, USGS downstream order number 0209801050.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	5	26.000	8.000	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	11	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	11	0.001	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	11	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	10	0.600	<0.200	--	0.600	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	10	0.400	<0.200	--	0.400	0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL	5	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.220	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 26.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 21, Jordan Lake at Buoy 7 below U.S. Highway 64 near Griffins Crossroads

Location.--Latitude 35°44'39", longitude 79°00'29", Chatham County, 600 ft south of U.S. Highway 64, and 3.2 mi east-southeast of Griffins Crossroads, USGS downstream order number 0209801050.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.140	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 27.--*Statistical summary of water-quality data, July 1991 through September 1992*

Site 21A, Jordan Lake above U.S. Highway 64 near Wilsonville

Location.--Latitude 35°44'29", longitude 79°01'10", Chatham County, 0.2 mi above bridge on U.S. Highway 64, and 1.1 mi west of Wilsonville, USGS downstream order number 0209799150.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	8	155.000	132.000	144.125	155.000	147.750	144.000	141.250	132.000
00400	pH, FIELD (STANDARD pH UNITS)	8	9.000	7.100	--	9.000	8.950	8.350	7.250	7.100
00010	WATER TEMPERATURE (°C)	8	31.000	18.000	25.500	31.000	29.875	25.750	22.000	18.000
00080	COLOR (PLATINUM-COBALT UNITS)	7	30.000	14.000	22.571	30.000	30.000	22.000	15.000	14.000
00300	OXYGEN, DISSOLVED (mg/L)	7	12.000	8.000	9.286	12.000	10.200	8.700	8.500	8.000
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	7	138.000	85.000	115.143	138.000	134.000	115.000	109.000	85.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	7	31.000	28.000	29.429	31.000	30.000	29.000	29.000	28.000
00915	CALCIUM, DISSOLVED (mg/L as Ca)	7	7.600	6.800	7.229	7.600	7.500	7.200	7.100	6.800
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	7	2.900	2.700	2.757	2.900	2.800	2.700	2.700	2.700
00930	SODIUM, DISSOLVED (mg/L as Na)	7	17.000	14.000	15.429	17.000	16.000	16.000	14.000	14.000
00935	POTASSIUM, DISSOLVED (mg/L as K)	7	3.300	3.000	3.100	3.300	3.200	3.100	3.000	3.000
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	7	38.000	30.000	34.143	38.000	36.000	35.000	32.000	30.000
00945	SULFATE, DISSOLVED (mg/L as SO_4)	7	17.000	13.000	14.857	17.000	16.000	15.000	13.000	13.000
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	7	14.000	11.000	12.429	14.000	13.000	13.000	11.000	11.000
00950	FLUORIDE, DISSOLVED (mg/L as F)	7	0.300	0.200	0.214	0.300	0.200	0.200	0.200	0.200
00955	SILICA, DISSOLVED (mg/L as SiO_2)	7	4.700	2.300	3.357	4.700	4.100	3.400	2.700	2.300
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	7	90.000	72.000	81.429	90.000	87.000	80.000	75.000	72.000

Table 27.--*Statistical summary of water-quality data, July 1991 through September 1992*--Continued

Site 21A, Jordan Lake above U.S. Highway 64 near Wilsonville

Location.--Latitude 35°44'29", longitude 79°01'10", Chatham County, 0.2 mi above bridge on U.S. Highway 64, and 1.1 mi west of Wilsonville, USGS downstream order number 0209799150.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	6	0.020	<0.010	--	0.020	0.010	0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	8	0.020	<0.010	--	0.020	0.010	<0.010	<0.010	<0.010
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	6	0.130	<0.050	--	0.130	<0.050	<0.050	<0.050	<0.050
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	8	0.130	<0.050	--	0.130	<0.050	<0.050	<0.050	<0.050
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	6	0.070	<0.010	--	0.070	0.030	0.010	<0.010	<0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	8	0.060	<0.010	0.018*	0.060	0.020	0.010	<0.010	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	8	1.000	0.430	0.691	1.000	0.928	0.700	0.467	0.430
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	5	0.490	0.240	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	8	1.000	0.500	0.712	1.000	0.950	0.700	0.500	0.500
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	8	0.500	0.300	0.400	0.500	0.475	0.400	0.325	0.300
00600	NITROGEN, TOTAL (mg/L as N)	8	1.000	0.500	0.736	1.000	0.950	0.730	0.533	0.500
00665	PHOSPHORUS, TOTAL (mg/L as P)	8	0.040	0.020	0.027	0.040	0.038	0.025	0.020	0.020
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	8	0.030	<0.010	--	0.030	0.020	<0.010	<0.010	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	6	0.020	<0.010	--	0.020	0.010	<0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	8	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	7	15.000	2.400	7.014	15.000	12.000	4.400	2.500	2.400
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	7	<0.800	<0.100	--	<0.800	<0.700	<0.100	<0.100	<0.100

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 27.--*Statistical summary of water-quality data, July 1991 through September 1992*--Continued

Site 21A, Jordan Lake above U.S. Highway 64 near Wilsonville

Location.--Latitude 35°44'29", longitude 79°01'10", Chatham County, 0.2 mi above bridge on U.S. Highway 64, and 1.1 mi west of Wilsonville, USGS downstream order number 0209799150.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	7	60.000	20.000	47.143	60.000	60.000	50.000	30.000	20.000
01002	ARSENIC, TOTAL (µg/L as As)	7	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	7	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	7	4.000	<1.000	--	4.000	1.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	7	2.000	<1.000	--	2.000	<1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	7	3.000	<1.000	1.635*	3.000	3.000	1.000	1.000	1.000
01045	IRON, TOTAL (µg/L as Fe)	7	230.000	40.000	120.000	230.000	200.000	120.000	50.000	40.000
01051	LEAD, TOTAL (µg/L as Pb)	6	5.000	<1.000	--	5.000	1.000	<1.000	<1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	7	150.000	30.000	68.571	150.000	80.000	60.000	40.000	30.000
71900	MERCURY, TOTAL (µg/L as Hg)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	7	3.000	<1.000	1.974*	3.000	3.000	2.000	1.000	1.000
01067	NICKEL, TOTAL (µg/L as Ni)	7	3.000	<1.000	--	3.000	1.000	<1.000	<1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	7	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	7	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	7	40.000	<10.000	--	40.000	20.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 27.--*Statistical summary of water-quality data, July 1991 through September 1992*--Continued

Site 21A, Jordan Lake above U.S. Highway 64 near Wilsonville

Location.--Latitude 35°44'29", longitude 79°01'10", Chatham County, 0.2 mi above bridge on U.S. Highway 64, and 1.1 mi west of Wilsonville, USGS downstream order number 0209799150.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	7	17.000	8.100	10.343	17.000	12.000	9.200	8.200	8.100
39330	ALDRIN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	3	0.001	<0.001	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	3	<1.000	<1.000	--	--	--	--	--	--
39786	TRITHION (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	2	0.200	<0.200	--	--	--	--	--	--
32104	BROMOFORM, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34301	CHLOROBENZENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34311	CHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32106	CHLOROFORM, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34418	METHYL CHLORIDE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34371	ETHYLBENZENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34413	METHYL BROMIDE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
77128	STYRENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34010	TOLUENE, TOTAL (µg/L)	2	0.600	<0.200	--	--	--	--	--	--
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
39175	VINYL CHLORIDE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
81551	XYLENE, TOTAL (µg/L)	2	0.500	<0.200	--	--	--	--	--	--
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39023	PHORATE, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39040	DEF, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.250	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.170	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	0.060	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 28.--*Statistical summary of water-quality data, July 1991 through September 1992*

Site 22, Jordan Lake at Bells Landing near Griffins Crossroads

Location.--Latitude 35°43'38", longitude 79°03'00", Chatham County, 2.0 mi southeast of Griffins Crossroads, USGS downstream order number 0209801100.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	7	176.000	144.000	153.571	176.000	156.000	150.000	146.000	144.000
00400	pH, FIELD (STANDARD pH UNITS)	7	9.100	7.200	--	9.100	9.000	8.500	7.200	7.200
00010	WATER TEMPERATURE (°C)	7	30.000	20.000	25.143	30.000	29.000	26.000	20.000	20.000
00080	COLOR (PLATINUM-COBALT UNITS)	7	110.000	13.000	37.286	110.000	40.000	25.000	21.000	13.000
00300	OXYGEN, DISSOLVED (mg/L)	6	11.200	8.400	9.950	11.200	10.750	9.900	9.375	8.400
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	6	129.000	112.000	121.667	129.000	127.500	122.500	115.750	112.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	7	30.000	27.000	28.857	30.000	30.000	29.000	28.000	27.000
00915	CALCIUM, DISSOLVED (mg/L as Ca)	7	7.300	6.700	7.014	7.300	7.300	7.100	6.800	6.700
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	7	3.100	2.600	2.757	3.100	2.800	2.800	2.600	2.600
00930	SODIUM, DISSOLVED (mg/L as Na)	7	20.000	15.000	16.571	20.000	17.000	16.000	15.000	15.000
00935	POTASSIUM, DISSOLVED (mg/L as K)	7	3.300	2.800	3.114	3.300	3.300	3.200	3.000	2.800
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	7	38.000	31.000	33.857	38.000	36.000	34.000	32.000	31.000
00945	SULFATE, DISSOLVED (mg/L as SO_4)	7	18.000	15.000	17.000	18.000	18.000	18.000	16.000	15.000
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	7	16.000	11.000	13.143	16.000	15.000	13.000	12.000	11.000
00950	FLUORIDE, DISSOLVED (mg/L as F)	7	0.300	<0.100	0.236*	0.300	0.300	0.200	0.200	0.200
00955	SILICA, DISSOLVED (mg/L as SiO_2)	7	4.900	2.200	3.771	4.900	4.700	4.000	2.500	2.200
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	7	97.000	78.000	87.714	97.000	94.000	90.000	81.000	78.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 28.--*Statistical summary of water-quality data, July 1991 through September 1992*--Continued

Site 22, Jordan Lake at Bells Landing near Griffins Crossroads

Location.--Latitude 35°43'38", longitude 79°03'00", Chatham County, 2.0 mi southeast of Griffins Crossroads, USGS downstream order number 0209801100.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	5	0.020	<0.010	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	7	0.020	<0.010	--	0.020	0.020	<0.010	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	5	0.210	<0.050	--	--	--	--	--	--
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	7	0.240	<0.050	--	0.240	0.170	<0.050	<0.050	<0.050
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	5	0.030	<0.010	--	--	--	--	--	--
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	7	0.040	<0.010	0.015*	0.040	0.030	0.010	<0.010	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	7	1.000	0.460	0.681	1.000	0.790	0.670	0.470	0.460
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	5	0.390	0.260	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	7	1.000	0.500	0.700	1.000	0.800	0.700	0.500	0.500
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	7	0.400	0.300	0.357	0.400	0.400	0.400	0.300	0.300
00600	NITROGEN, TOTAL (mg/L as N)	7	1.000	0.500	0.754	1.000	0.910	0.800	0.600	0.500
00665	PHOSPHORUS, TOTAL (mg/L as P)	7	0.040	<0.010	0.026*	0.040	0.030	0.030	0.020	0.020
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	7	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	5	0.020	<0.010	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	7	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	7	11.000	3.200	5.814	11.000	6.900	5.500	3.400	3.200
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	7	0.300	<0.100	--	0.300	<0.800	<0.100	<0.100	<0.100

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 28.--*Statistical summary of water-quality data, July 1991 through September 1992*--Continued

Site 22, Jordan Lake at Bells Landing near Griffins Crossroads

Location.--Latitude 35°43'38", longitude 79°03'00", Chatham County, 2.0 mi southeast of Griffins Crossroads, USGS downstream order number 0209801100.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	7	160.000	30.000	65.714	160.000	70.000	50.000	40.000	30.000
01002	ARSENIC, TOTAL (µg/L as As)	7	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	7	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	7	4.000	<1.000	--	4.000	3.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	7	2.000	<1.000	--	2.000	<1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	7	6.000	1.000	2.714	6.000	3.000	2.000	2.000	1.000
01045	IRON, TOTAL (µg/L as Fe)	7	290.000	50.000	150.000	290.000	230.000	120.000	80.000	50.000
01051	LEAD, TOTAL (µg/L as Pb)	6	3.000	<1.000	--	3.000	2.000	<1.000	<1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	7	170.000	20.000	55.714	170.000	60.000	40.000	20.000	20.000
71900	MERCURY, TOTAL (µg/L as Hg)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	7	2.000	<1.000	1.373*	2.000	2.000	1.000	1.000	1.000
01067	NICKEL, TOTAL (µg/L as Ni)	7	3.000	<1.000	1.657*	3.000	2.000	2.000	1.000	1.000
01147	SELENIUM, TOTAL (µg/L as Se)	7	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	7	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	7	20.000	<10.000	--	20.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 28.--*Statistical summary of water-quality data, July 1991 through September 1992*--Continued

Site 22, Jordan Lake at Bells Landing near Griffins Crossroads

Location.--Latitude 35°43'38", longitude 79°03'00", Chatham County, 2.0 mi southeast of Griffins Crossroads, USGS downstream order number 0209801100.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	7	9.800	7.300	8.414	9.800	9.400	7.900	7.700	7.300
39330	ALDRIN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	3	0.001	<0.001	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	3	<1.000	<1.000	--	--	--	--	--	--
39786	TRITHION (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32104	BROMOFORM, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34301	CHLOROBENZENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34311	CHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32106	CHLOROFORM, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34418	METHYL CHLORIDE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34371	ETHYLBENZENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34413	METHYL BROMIDE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
77128	STYRENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34010	TOLUENE, TOTAL (µg/L)	2	0.300	<0.200	--	--	--	--	--	--
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
39175	VINYL CHLORIDE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
81551	XYLENE, TOTAL (µg/L)	2	0.200	<0.200	--	--	--	--	--	--
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39023	PHORATE, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39040	DEF, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	2	<0.200	<0.200	--	--	--	--	--	--
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.220	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 28.--*Statistical summary of water-quality data, July 1991 through September 1992*--Continued

Site 22, Jordan Lake at Bells Landing near Griffins Crossroads

Location.--Latitude 35°43'38", longitude 79°03'00", Chatham County, 2.0 mi southeast of Griffins Crossroads, USGS downstream order number 0209801100.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.170	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	0.070	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 29.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 23, Jordan Lake, Haw River Arm above B. Everett Jordan Dam

Location.--Latitude 35°39'39", longitude 79°04'23", Chatham County, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks, USGS downstream order number 0209719700.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OF CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	6	248.000	142.000	201.333	248.000	224.750	206.500	176.500	142.000
00400	pH, FIELD (STANDARD pH UNITS)	6	10.400	6.500	--	10.400	9.875	7.500	6.875	6.500
00010	WATER TEMPERATURE (°C)	6	30.000	6.500	18.250	30.000	27.750	19.500	6.875	6.500
00080	COLOR (PLATINUM-COBALT UNITS)	5	50.000	23.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	5	12.600	9.600	--	--	--	--	--	--
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	5	168.000	79.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	33.000	28.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	8.100	6.800	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.200	2.700	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	30.000	15.000	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	4.900	2.900	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	42.000	30.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	39.000	16.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	21.000	11.000	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.300	0.200	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	8.000	5.600	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	128.000	98.000	--	--	--	--	--	--
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	1	39.000	--	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	1	40.000	--	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	1	43.000	--	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	1	100.000	--	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	1	100.000	--	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	13	228.000	101.000	150.231	228.000	186.000	150.000	111.500	101.000
00400	pH, FIELD (STANDARD pH UNITS)	13	9.400	6.500	--	9.400	8.950	8.400	7.100	6.500
00010	WATER TEMPERATURE (°C)	13	30.000	17.000	24.154	30.000	28.500	23.000	20.000	17.000
00300	OXYGEN, DISSOLVED (mg/L)	13	13.000	7.100	10.115	13.000	11.800	10.600	8.600	7.100
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	25.000	5.000	10.143	25.000	12.000	9.500	7.000	5.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	180.000	88.000	128.214	180.000	140.000	130.000	110.000	88.000

Table 29.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 23, Jordan Lake, Haw River Arm above B. Everett Jordan Dam

Location.--Latitude 35°39'39", longitude 79°04'23", Chatham County, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks, USGS downstream order number 0209719700.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS (Continued)

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	19	248.000	101.000	166.368	248.000	214.000	157.000	121.000	101.000
00400	pH, FIELD (STANDARD pH UNITS)	19	10.400	6.500	--	10.400	9.000	7.900	7.000	6.500
00010	WATER TEMPERATURE (°C)	19	30.000	6.500	22.289	30.000	28.500	22.500	19.000	6.500
00080	COLOR (PLATINUM-COBALT UNITS)	5	50.000	23.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	18	13.000	7.100	10.417	13.000	11.725	10.600	8.950	7.100
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	5	168.000	79.000	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	33.000	28.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	8.100	6.800	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.200	2.700	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	30.000	15.000	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	4.900	2.900	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	42.000	30.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	39.000	16.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	21.000	11.000	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.300	0.200	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	8.000	5.600	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	128.000	98.000	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	14	25.000	5.000	10.143	25.000	12.000	9.500	7.000	5.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	14	180.000	88.000	128.214	180.000	140.000	130.000	110.000	88.000
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	1	39.000	--	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	1	40.000	--	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	1	43.000	--	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	1	100.000	--	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	1	100.000	--	--	--	--	--	--	--

Table 29.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 23, Jordan Lake, Haw River Arm above B. Everett Jordan Dam

Location.--Latitude 35°39'39", longitude 79°04'23", Chatham County, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks, USGS downstream order number 0209719700.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	3	0.030	0.020	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	4	0.020	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	3	0.350	<0.050	--	--	--	--	--	--
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	4	0.430	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	3	0.050	0.020	--	--	--	--	--	--
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	4	0.050	<0.010	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	4	2.000	0.850	--	--	--	--	--	--
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	3	0.480	0.380	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	4	2.000	0.900	--	--	--	--	--	--
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	4	0.700	0.400	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	4	2.000	1.100	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	4	0.180	0.060	--	--	--	--	--	--
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	4	0.040	0.020	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	3	0.030	<0.010	--	--	--	--	--	--
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	4	0.020	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	5	24.000	4.900	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	5	1.000	<0.100	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	14	0.790	<0.010	0.325*	0.790	0.530	0.220	0.050	<0.010
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	14	0.140	0.010	0.054	0.140	0.077	0.040	0.020	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	14	0.870	0.340	0.511	0.870	0.602	0.480	0.358	0.340
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	14	0.900	0.400	0.564	0.900	0.625	0.550	0.400	0.400
00600	NITROGEN, TOTAL (mg/L as N)	14	1.200	0.610	0.881	1.200	1.000	0.905	0.715	0.610
00665	PHOSPHORUS, TOTAL (mg/L as P)	14	0.160	0.060	0.106	0.160	0.140	0.100	0.078	0.060
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	14	0.060	<0.010	0.022*	0.060	0.030	0.010	<0.010	<0.010
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	14	80.000	7.000	34.857	80.000	54.250	32.000	18.000	7.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	14	75.000	6.000	31.571	75.000	51.750	27.000	16.250	6.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	3	0.030	0.020	--	--	--	--	--	--
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	4	0.020	<0.010	--	--	--	--	--	--
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	17	0.790	<0.010	0.303*	0.790	0.510	0.220	0.050	<0.010
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	4	0.430	<0.050	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	17	0.140	0.010	0.049	0.140	0.065	0.030	0.020	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	4	0.050	<0.010	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	18	2.000	0.340	0.659	2.000	0.855	0.535	0.382	0.340
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	3	0.480	0.380	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	18	2.000	0.400	0.706	2.000	0.900	0.600	0.475	0.400
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	4	0.700	0.400	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	18	2.000	0.610	1.002	2.000	1.125	0.985	0.795	0.610
00665	PHOSPHORUS, TOTAL (mg/L as P)	18	0.180	0.060	0.108	0.180	0.140	0.100	0.078	0.060
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	4	0.040	0.020	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	17	0.060	<0.010	0.021*	0.060	0.030	0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	4	0.020	<0.010	--	--	--	--	--	--
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	5	24.000	4.900	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	5	1.000	<0.100	--	--	--	--	--	--
32217	CHLOROPHYLL A, FLUOROMETRIC METHOD, UNCORRECTED (µg/L)	14	80.000	7.000	34.857	80.000	54.250	32.000	18.000	7.000
32209	CHLOROPHYLL A, FLUOROMETRIC METHOD, CORRECTED (µg/L)	14	75.000	6.000	31.571	75.000	51.750	27.000	16.250	6.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 29.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 23, Jordan Lake, Haw River Arm above B. Everett Jordan Dam

Location.--Latitude 35°39'39", longitude 79°04'23", Chatham County, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks, USGS downstream order number 0209719700.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	5	180.000	90.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	5	2.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	5	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	5	2.000	<1.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	5	1.000	<1.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	6.000	2.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	5	360.000	190.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	5	8.000	<1.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	5	60.000	20.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	5	<0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	4.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	3.000	1.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	5	40.000	<10.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	14	2,400.000	80.000	598.571	2,400.000	1,035.000	240.000	145.000	80.000
01002	ARSENIC, TOTAL (µg/L as As)	1	<10.000	--	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	4	<2.000	<2.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	5	<25.000	<25.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	3	<50.000	<50.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	5.000	<2.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	3	1,800.000	140.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	4	<10.000	<10.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	14	59.000	<10.000	30.279*	59.000	36.000	26.000	21.000	<10.000
71900	MERCURY, TOTAL (µg/L as Hg)	4	<0.200	<0.200	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	4	<10.000	<10.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	5	<10.000	<10.000	--	--	--	--	--	--

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	19	2,400.000	80.000	473.684	2,400.000	510.000	190.000	110.000	80.000
01002	ARSENIC, TOTAL (µg/L as As)	6	2.000	<1.000	--	2.000	<10.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	9	<2.000	<1.000	--	<2.000	<2.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	10	2.000	<1.000	--	2.000	1.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	8	1.000	<1.000	--	1.000	<50.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	10	6.000	<2.000	3.298*	6.000	5.000	3.000	2.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	8	1,800.000	140.000	431.250	1,800.000	355.000	215.000	190.000	140.000
01051	LEAD, TOTAL (µg/L as Pb)	9	8.000	<1.000	--	8.000	1.000	<10.000	<10.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	19	60.000	<10.000	31.775*	60.000	40.000	29.000	21.000	<10.000
71900	MERCURY, TOTAL (µg/L as Hg)	9	<0.200	<0.100	--	<0.200	<0.200	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	4.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	9	3.000	<10.000	2.187*	3.000	2.000	1.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	10	40.000	<10.000	--	40.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 29.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 23, Jordan Lake, Haw River Arm above B. Everett Jordan Dam

Location.--Latitude 35°39'39", longitude 79°04'23", Chatham County, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks, USGS downstream order number 0209719700.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	5	14.000	7.300	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	1	170.000	--	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	11	0.020	<0.010	0.010*	0.020	0.010	0.010	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	1	0.800	--	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	11	0.001	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	1	1.100	--	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	1	10.000	--	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	11	0.004	<0.001	0.001*	0.004	0.001	<0.010	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	1	0.100	--	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	11	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	10	0.400	<0.200	--	0.400	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	10	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 29.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 23, Jordan Lake, Haw River Arm above B. Everett Jordan Dam

Location.--Latitude 35°39'39", longitude 79°04'23", Chatham County, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks, USGS downstream order number 0209719700.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34205	ACENAPHTHENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34200	ACENAPHTHYLENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34220	ANTHRACENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34526	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34247	BENZO(A)PYRENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34230	BENZO(B)FLUORANTHENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34521	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34242	BENZO(K)FLUORANTHENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34292	N-BUTYL BENZYL PHTHALATE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34452	PARACHLOROMETACRESOL, TOTAL (µg/L)	2	<30.000	<30.000	--	--	--	--	--	--
34320	CHRYSENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
39110	DI-N-BUTYL PHTHALATE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34596	DI-N-OCTYL PHTHALATE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34336	DIETHYL PHTHALATE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34341	DIMETHYL PHTHALATE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34657	4,6-DINITRO-ORTHOCRESOL, TOTAL (µg/L)	2	<30.000	<30.000	--	--	--	--	--	--
34376	FLUORANTHENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34381	FLUORENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
39700	HEXACHLOROBENZENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
39702	HEXACHLOROBUTADIENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34396	HEXACHLOROETHANE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34403	INDENO(1,2,3-CD)PYRENE, TOTAL (µg/L)	2	<10.000	<10.000	--	--	--	--	--	--
34408	ISOPHORONE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34433	N-NITROSODIPHENYLAMINE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34696	NAPHTHALENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34447	NITROBENZENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34438	N-NITROSODIMETHYLAMINE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
39032	PENTACHLOROPHENOL, TOTAL (µg/L)	2	<30.000	<30.000	--	--	--	--	--	--
34461	PHENANTHRENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34694	PHENOL (C6H-5OH), TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34469	PYRENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34551	1,2,4-TRICHLOROBENZENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34278	BIS(2-CHLOROETHOXY)METHANE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34273	BIS-2-CHLOROETHYL ETHER, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34283	BIS(2-CHLOROISOPROPYL)ETHER, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34581	2-CHLORONAPHTHALENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34586	2-CHLOROPHENOL, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
39100	BIS(2-ETHYLHEXYL) PHTHALATE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34591	2-NITROPHENOL, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34601	2,4-DICHLOROPHENOL, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34606	2,4-DIMETHYLPHENOL, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34616	2,4-DINITROPHENOL, TOTAL (µg/L)	2	<20.000	<20.000	--	--	--	--	--	--
34611	2,4-DINITROTOLUENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34621	2,4,6-TRICHLOROPHENOL, TOTAL (µg/L)	2	<20.000	<20.000	--	--	--	--	--	--
34626	2,6-DINITROTOLUENE, TOTAL (µg/L)	2	<5.000	<5.000	--	--	--	--	--	--
34636	4-BROMOPHENYL ETHER, TOTAL (µg/L))	2	<5.000	<5.000	--	--	--	--	--	--
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (µg/L))	2	<5.000	<5.000	--	--	--	--	--	--
34646	4-NITROPHENOL, TOTAL (µg/L)	2	<30.000	<30.000	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 29.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 23, Jordan Lake, Haw River Arm above B. Everett Jordan Dam

Location.--Latitude 35°39'39", longitude 79°04'23", Chatham County, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks, USGS downstream order number 0209719700.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39011	DISYSTON, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTal (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.200	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.320	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	0.14	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 30.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 24, Haw River near Bynum

Location.--Latitude 35°45'48", longitude 79°08'02", Chatham County, on right bank 500 ft upstream of Pokeberry Creek, 0.9 mi south-southeast of Bynum, and 1.1 mi downstream from U.S. Highways 15 and 501, USGS downstream order number 02096960.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	16	23,600.000	219.000	7,379.375	23,600.000	12,082.500	5,095.000	3,162.500	219.000
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	16	366.000	68.000	137.500	366.000	156.000	121.000	85.750	68.000
00400	pH, FIELD (STANDARD pH UNITS)	16	7.500	6.100	--	7.500	7.275	7.000	6.475	6.100
00010	WATER TEMPERATURE (°C)	13	28.000	5.000	16.538	28.000	23.000	19.000	8.250	5.000
00080	COLOR (PLATINUM-COBALT UNITS)	5	350.000	80.000	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	11	12.400	3.000	8.491	12.400	9.900	9.100	7.100	3.000
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	10	120.000	68.000	97.200	120.000	101.500	99.500	91.750	68.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	5	41.000	19.000	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	9.800	4.800	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.900	1.800	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	54.000	4.400	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	6.200	1.400	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	55.000	17.000	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	51.000	6.900	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	41.000	4.300	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.400	<0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	11.000	7.800	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	222.000	56.000	--	--	--	--	--	--
80154	SUSPENDED SEDIMENT (mg/L)	12	691.000	96.000	307.750	691.000	381.250	300.000	172.000	96.000
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	2	2.000	1.000	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	2	5.000	3.000	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	2	19.000	14.000	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	2	78.000	75.000	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	2	100.000	98.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	44	20,000.000	58.000	2,389.091	17,800.000	2,242.500	624.500	352.750	106.500
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	44	520.000	50.000	184.409	457.000	227.500	151.500	102.250	68.000
00400	pH, FIELD (STANDARD pH UNITS)	44	8.100	6.200	--	7.900	7.575	7.300	7.000	6.350
00010	WATER TEMPERATURE (°C)	44	30.000	0.500	16.386	28.875	24.250	15.500	11.125	4.625
00076	TURBIDITY (NTU)	44	260.000	3.000	41.586	217.500	40.000	21.000	10.250	3.200
00300	OXYGEN, DISSOLVED (mg/L)	43	14.200	5.900	9.153	12.960	10.500	9.100	7.500	6.020
00310	BOD 5-DAY AT 20 °C (mg/L)	14	3.300	0.700	1.436	3.300	1.875	1.200	0.800	0.700
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	44	66.000	16.000	35.545	52.750	40.750	32.000	30.000	23.500
00916	CALCIUM, TOTAL (mg/L as Ca)	1	4.900	--	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	3	3.600	2.000	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	5.100	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L AS $CaCO_3$)	39	77.000	18.000	37.077	69.000	40.000	33.000	29.000	19.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	43	570.000	2.000	38.093	202.000	22.000	11.000	5.000	2.000
00500	RESIDUE ON EVAPORATION AT 105°C, TOTAL (mg/L)	43	380.000	100.000	190.465	338.000	220.000	170.000	140.000	100.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 30.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 24, Haw River near Bynum

Location.--Latitude 35°45'48", longitude 79°08'02", Chatham County, on right bank 500 ft upstream of Pokeberry Creek, 0.9 mi south-southeast of Bynum, and 1.1 mi downstream from U.S. Highways 15 and 501, USGS downstream order number 02096960.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS (Continued)

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	60	23,600.000	58.000	3,719.833	18,534.996	4,250.000	919.000	376.750	144.800
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	60	520.000	50.000	171.900	420.350	206.250	143.500	99.000	68.000
00400	pH, FIELD (STANDARD pH UNITS)	60	8.100	6.100	--	7.895	7.400	7.200	6.925	6.200
00010	WATER TEMPERATURE (°C)	57	30.000	0.500	16.421	28.550	23.250	16.000	10.500	4.950
00080	COLOR (PLATINUM-COBALT UNITS)	5	350.000	80.000	--	--	--	--	--	--
00076	TURBIDITY (NTU)	44	260.000	3.000	41.586	217.500	40.000	21.000	10.250	3.200
00300	OXYGEN, DISSOLVED (mg/L)	54	14.200	3.000	9.019	12.850	10.350	9.100	7.475	5.875
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	10	120.000	68.000	97.200	120.000	101.500	99.500	91.750	68.000
00310	BOD 5-DAY AT 20 °C (mg/L)	14	3.300	0.700	1.436	3.300	1.875	1.200	0.800	0.700
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	49	66.000	16.000	34.612	52.500	40.500	32.000	28.500	19.500
00916	CALCIUM, TOTAL (mg/L as Ca)	1	4.900	--	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	5	9.800	4.800	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	3	3.600	2.000	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	5	3.900	1.800	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	5.100	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	5	54.000	4.400	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	5	6.200	1.400	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	5	55.000	17.000	--	--	--	--	--	--
00431	ALKALINITY (mg/L as $CaCO_3$)	39	77.000	18.000	37.077	69.000	40.000	33.000	29.000	19.000
00945	SULFATE, DISSOLVED (mg/L as SO_4)	5	51.000	6.900	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	5	41.000	4.300	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	5	0.400	<0.100	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	5	11.000	7.800	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	5	222.000	56.000	--	--	--	--	--	--
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	43	570.000	2.000	38.093	202.000	22.000	11.000	5.000	2.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	43	380.000	100.000	190.465	338.000	220.000	170.000	140.000	100.000
80154	SUSPENDED SEDIMENT (mg/L)	12	691.000	96.000	307.750	691.000	381.250	300.000	172.000	96.000
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	2	2.000	1.000	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	2	5.000	3.000	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	2	19.000	14.000	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	2	78.000	75.000	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	2	100.000	98.000	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 30.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 24, Haw River near Bynum

Location.--Latitude 35°45'48", longitude 79°08'02", Chatham County, on right bank 500 ft upstream of Pokeberry Creek, 0.9 mi south-southeast of Bynum, and 1.1 mi downstream from U.S. Highways 15 and 501, USGS downstream order number 02096960.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.040	<0.010	--	--	--	--	--	--
00630	NO_2 + NO_3, TOTAL (mg/L as N)	4	2.000	0.270	--	--	--	--	--	--
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	4	0.130	0.050	--	--	--	--	--	--
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	4	1.600	0.540	--	--	--	--	--	--
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	4	1.700	0.600	--	--	--	--	--	--
00600	NITROGEN, TOTAL (mg/L as N)	4	3.700	0.870	--	--	--	--	--	--
00665	PHOSPHORUS, TOTAL (mg/L as P)	4	0.580	0.070	--	--	--	--	--	--
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	4	0.280	0.020	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	NO_2 + NO_3, TOTAL (mg/L as N)	44	4.200	0.360	1.235	3.550	1.600	0.910	0.662	0.423
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	43	0.190	0.010	0.071	0.174	0.100	0.060	0.040	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	44	1.100	0.170	0.491	0.942	0.615	0.445	0.360	0.250
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	44	1.300	0.200	0.561	0.975	0.700	0.500	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	44	5.200	0.760	1.801	4.425	2.250	1.450	1.125	0.872
00665	PHOSPHORUS, TOTAL (mg/L as P)	44	0.730	0.090	0.261	0.673	0.345	0.200	0.150	0.110
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	38	0.710	0.010	0.141	0.606	0.162	0.090	0.040	0.019

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	4	0.040	<0.010	--	--	--	--	--	--
00630	NO_2 + NO_3, TOTAL (mg/L as N)	48	4.200	0.270	1.202	3.510	1.600	0.885	0.585	0.387
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	47	0.190	0.010	0.072	0.168	0.100	0.060	0.040	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	48	1.600	0.170	0.527	1.037	0.638	0.450	0.363	0.258
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	48	1.700	0.200	0.598	1.165	0.700	0.500	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	48	5.200	0.760	1.805	4.365	2.250	1.450	1.125	0.865
00665	PHOSPHORUS, TOTAL (mg/L as P)	48	0.730	0.070	0.260	0.659	0.345	0.200	0.150	0.099
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	42	0.710	0.010	0.136	0.579	0.162	0.080	0.040	0.020

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 30.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 24, Haw River near Bynum

Location.--Latitude 35°45'48", longitude 79°08'02", Chatham County, on right bank 500 ft upstream of Pokeberry Creek, 0.9 mi south-southeast of Bynum, and 1.1 mi downstream from U.S. Highways 15 and 501, USGS downstream order number 02096960.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	5	5,900.000	1,800.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	5	2.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	5	<1.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	5	11.000	1.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	5	10.000	2.000	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	5	32.000	7.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	5	9,200.000	2,700.000	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	5	59.000	11.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	5	730.000	210.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	5	<0.100	<0.100	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	4.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	5	7.000	3.000	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	5	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	5	<1.000	<1.000	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	5	60.000	30.000	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	10	16,000.000	110.000	2,233.000	16,000.000	1,135.000	780.000	372.500	110.000
01002	ARSENIC, TOTAL (µg/L as As)	44	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	44	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	44	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	1	<50.000	--	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	44	28.000	<10.000	7.006*	14.000	7.000	5.000	4.000	<10.000
01045	IRON, TOTAL (µg/L as Fe)	10	18,000.000	320.000	2,874.000	18,000.000	1,925.000	1,150.000	905.000	320.000
01051	LEAD, TOTAL (µg/L as Pb)	44	19.000	<10.000	--	12.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	10	670.000	21.000	110.100	670.000	70.500	49.000	34.750	21.000
71900	MERCURY, TOTAL (µg/L as Hg)	44	<0.200	<0.100	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	44	20.000	<10.000	--	11.000	<10.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	2	<5.000	<5.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	1	<5.000	--	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	44	60.000	<10.000	11.506*	40.000	10.000	<10.000	<10.000	<10.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	15	16,000.000	110.000	2,595.333	16,000.000	3,200.000	980.000	500.000	110.000
01002	ARSENIC, TOTAL (µg/L as As)	49	2.000	<1.000	--	<10.000	<10.000	<10.000	<10.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	49	<2.000	<1.000	--	<2.000	<2.000	<2.000	<2.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	49	11.000	<25.000	8.269*	6.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	6	10.000	<50.000	4.491*	10.000	4.000	3.000	2.000	2.000
01042	COPPER, TOTAL (µg/L as Cu)	49	32.000	<10.000	8.250*	24.000	8.000	6.000	4.000	<10.000
01045	IRON, TOTAL (µg/L as Fe)	15	18,000.000	320.000	3,556.000	18,000.000	4,100.000	1,900.000	1,100.000	320.000
01051	LEAD, TOTAL (µg/L as Pb)	49	59.000	<10.000	5.312*	19.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	15	730.000	21.000	216.733	730.000	460.000	67.000	41.000	21.000
71900	MERCURY, TOTAL (µg/L as Hg)	49	<0.200	<0.100	--	<0.200	<0.200	<0.200	<0.200	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	5	4.000	<1.000	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	49	20.000	<10.000	5.755*	11.000	<50.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	7	<5.000	<1.000	--	<5.000	<5.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	6	<5.000	<1.000	--	<5.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	49	60.000	<10.000	15.199*	50.000	20.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 30.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 24, Haw River near Bynum

Location.--Latitude 35°45'48", longitude 79°08'02", Chatham County, on right bank 500 ft upstream of Pokeberry Creek, 0.9 mi south-southeast of Bynum, and 1.1 mi downstream from U.S. Highways 15 and 501, USGS downstream order number 02096960.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	5	22.000	13.000	--	--	--	--	--	--
39330	ALDRIN, TOTAL (µg/L)	21	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	21	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	3	17.000	1.000	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	21	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	21	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	3	0.100	<0.100	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	21	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	19	0.020	<0.010	0.012*	0.020	0.020	0.010	0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	3	0.100	<0.100	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	21	0.003	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	3	1.400	<0.100	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	21	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	21	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	19	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	3	<1.000	<0.100	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	21	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	3	15.000	<1.000	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	21	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	21	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	21	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	21	0.007	<0.001	0.001*	0.005	0.001	<0.001	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	19	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	3	<1.000	<0.100	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	21	0.060	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	19	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	3	<1.000	<0.100	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	19	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	3	<1.000	<0.100	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	21	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	3	<0.100	<0.100	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	19	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	3	<1.000	<0.100	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	21	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	3	<1.000	<1.000	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	21	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	3	<10.000	<10.000	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	19	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	3	<1.000	<0.100	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	9	0.600	<0.200	--	0.600	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Site 24, Haw River near Bynum

Location.--Latitude 35°45'48", longitude 79°08'02", Chatham County, on right bank 500 ft upstream of Pokeberry Creek, 0.9 mi south-southeast of Bynum, and 1.1 mi downstream from U.S. Highways 15 and 501, USGS downstream order number 02096960.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34208	ACENAPHTHENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34695	PHENOL (C6H-5OH), BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34566	ICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	0.400	<0.200	--	0.400	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	3	460.000	<200.000	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	3	<400.000	<400.000	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	3	<600.000	<600.000	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	3	<200.000	<200.000	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 30.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 24, Haw River near Bynum

Location.--Latitude 35°45'48", longitude 79°08'02", Chatham County, on right bank 500 ft upstream of Pokeberry Creek, 0.9 mi south-southeast of Bynum, and 1.1 mi downstream from U.S. Highways 15 and 501, USGS downstream order number 02096960.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.280	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.54	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	0.29	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 31.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 25, Haw River below B. Everett Jordan Dam near Moncure

Location.--Latitude 35°39'11", longitude 79°04'03", Chatham County, on right bank 300 ft downstream from B. Everett Jordan Dam, 2.5 mi north of Moncure, and 4.2 mi upstream of mouth, USGS downstream order number 02098198.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	1	422.000	--	--	--	--	--	--	--
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	1	130.000	--	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	1	7.200	--	--	--	--	--	--	--
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	1	3.000	--	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	1	17.000	--	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	1	63.000	--	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	1	99.000	--	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	1	100.000	--	--	--	--	--	--	--

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	42	14,700.000	235.000	1,936.690	8,326.998	2,272.500	685.500	468.000	255.650
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	42	247.000	66.000	152.048	242.850	185.500	141.500	120.750	82.800
00400	pH, FIELD (STANDARD pH UNITS)	42	7.500	6.700	--	7.400	7.200	7.100	6.900	6.700
00010	WATER TEMPERATURE (°C)	42	29.000	4.000	17.000	28.425	23.875	15.750	11.000	5.075
00076	TURBIDITY (NTU)	42	95.000	6.600	23.783	60.000	29.000	18.500	14.000	7.110
00300	OXYGEN, DISSOLVED (mg/L)	42	15.200	5.600	9.064	12.880	10.850	9.200	6.900	5.845
00310	BOD 5-DAY AT 20 °C (mg/L)	1	2.100	--	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	18	48.000	25.000	34.333	48.000	40.500	32.000	28.750	25.000
00916	CALCIUM, TOTAL (mg/L as Ca)	1	5.500	--	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	4	42.000	2.300	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	8.000	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L AS $CaCO_3$)	39	55.000	4.000	33.641	48.000	39.000	33.000	30.000	16.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	18	25.000	2.000	12.944	25.000	18.000	11.500	8.000	2.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	17	180.000	92.000	137.176	180.000	150.000	140.000	125.000	92.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	43	14,700.000	235.000	1,901.465	8,236.006	1,940.000	671.000	462.000	259.200
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	43	247.000	66.000	151.535	242.800	184.000	141.000	121.000	83.400
00400	pH, FIELD (STANDARD pH UNITS)	43	7.500	6.700	--	7.400	7.200	7.100	6.900	6.700
00010	WATER TEMPERATURE (°C)	42	29.000	4.000	17.000	28.425	23.875	15.750	11.000	5.075
00076	TURBIDITY (NTU)	42	95.000	6.600	23.783	60.000	29.000	18.500	14.000	7.110
00300	OXYGEN, DISSOLVED (mg/L)	42	15.200	5.600	9.064	12.880	10.850	9.200	6.900	5.845
00310	BOD 5-DAY AT 20 °C (mg/L)	1	2.100	--	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	18	48.000	25.000	34.333	48.000	40.500	32.000	28.750	25.000
00916	CALCIUM, TOTAL (mg/L as Ca)	1	5.500	--	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	4	42.000	2.300	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	8.000	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L as $CaCO_3$)	39	55.000	4.000	33.641	48.000	39.000	33.000	30.000	16.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	18	25.000	2.000	12.944	25.000	18.000	11.500	8.000	2.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	17	180.000	92.000	137.176	180.000	150.000	140.000	125.000	92.000
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	1	3.000	--	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	1	17.000	--	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	1	63.000	--	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	1	99.000	--	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	1	100.000	--	--	--	--	--	--	--

Table 31.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 25, Haw River below B. Everett Jordan Dam near Moncure

Location.--Latitude 35°39'11", longitude 79°04'03", Chatham County, on right bank 300 ft downstream from B. Everett Jordan Dam, 2.5 mi north of Moncure, and 4.2 mi upstream of mouth, USGS downstream order number 02098198.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	NO_2 + NO_3, TOTAL (mg/L as N)	42	1.300	0.240	0.622	1.200	0.760	0.565	0.400	0.252
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	42	0.900	0.020	0.185	0.686	0.190	0.130	0.090	0.032
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	41	0.690	0.210	0.430	0.673	0.495	0.430	0.340	0.240
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	42	1.200	0.400	0.595	0.985	0.700	0.600	0.500	0.400
00600	NITROGEN, TOTAL (mg/L as N)	42	1.900	0.800	1.210	1.885	1.325	1.200	0.990	0.803
00665	PHOSPHORUS, TOTAL (mg/L as P)	42	0.240	0.050	0.130	0.228	0.153	0.120	0.097	0.070
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	36	0.120	<0.010	0.038*	0.120	0.050	0.030	0.020	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 31.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 25, Haw River below B. Everett Jordan Dam near Moncure

Location.--Latitude 35°39'11", longitude 79°04'03", Chatham County, on right bank 300 ft downstream from B. Everett Jordan Dam, 2.5 mi north of Moncure, and 4.2 mi upstream of mouth, USGS downstream order number 02098198.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	7	950.000	<50.000	370.991*	950.000	510.000	320.000	130.000	130.000
01002	ARSENIC, TOTAL (µg/L as As)	17	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	18	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	18	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	1	<50.000	--	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	18	11.000	<2.000	3.563*	11.000	4.000	3.000	<10.000	<2.000
01045	IRON, TOTAL (µg/L as Fe)	7	1,600.000	<50.000	549.909*	1600.000	540.000	420.000	320.000	320.000
01051	LEAD, TOTAL (µg/L as Pb)	18	20.000	<10.000	--	20.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	5	110.000	<10.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	18	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	18	<50.000	<10.000	--	<50.000	<10.000	<10.000	<10.000	<10.000
01077	SILVER, TOTAL (µg/L as Ag)	1	<5.000	--	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	18	30.000	<10.000	6.211*	30.000	10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 31.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 25, Haw River below B. Everett Jordan Dam near Moncure

Location.--Latitude 35°39'11", longitude 79°04'03", Chatham County, on right bank 300 ft downstream from B. Everett Jordan Dam, 2.5 mi north of Moncure, and 4.2 mi upstream of mouth, USGS downstream order number 02098198.

ORGANIC COMPOUNDS

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39330	ALDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	1	1.000	--	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	1	0.300	--	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	8	0.020	<0.010	--	0.020	<0.010	<0.010	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	8	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	1	5.000	--	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	8	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	8	0.004	<0.001	0.001*	0.004	0.001	0.001	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	8	0.020	<0.010	--	0.020	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	8	0.030	<0.010	--	0.030	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	8	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	0.700	<0.200	--	0.700	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

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Table 31.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

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ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 31.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 25, Haw River below B. Everett Jordan Dam near Moncure

Location.--Latitude 35°39'11", longitude 79°04'03", Chatham County, on right bank 300 ft downstream from B. Everett Jordan Dam, 2.5 mi north of Moncure, and 4.2 mi upstream of mouth, USGS downstream order number 02098198.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED BY THE U.S. GEOLOGICAL SURVEY OR THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES, AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 32.--*Statistical summary of water-quality data, October 1989 through September 1992*

Site 26, Eno River at Hillsborough

Location.--Latitude 36°04'18", longitude 79°05'49", Orange County, on left bank 900 ft downstream from bridge on State Highway 86 at Hillsoborough, and 2 mi downstream from Sevenmile Creek, USGS downstream order number 02085000.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	35	657.000	0.560	63.587	319.399	85.000	34.000	13.000	1.552
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	34	115.000	63.000	87.471	111.250	102.000	84.500	79.500	64.500
00400	pH, FIELD (STANDARD pH UNITS)	35	7.700	5.900	--	7.460	7.000	6.800	6.600	6.220
00010	WATER TEMPERATURE (°C)	34	26.000	4.500	15.426	25.250	21.625	16.250	9.500	4.875
00080	COLOR (PLATINUM-COBALT UNITS)	35	120.000	15.000	51.657	96.000	57.000	50.000	35.000	23.000
00300	OXYGEN, DISSOLVED (mg/L)	35	12.400	3.800	8.514	12.240	10.800	8.500	6.700	3.880
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	33	112.000	44.000	83.697	106.400	96.000	87.000	73.500	45.400
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	35	39.000	20.000	28.800	38.200	31.000	28.000	26.000	20.000
00915	CALCIUM, DISSOLVED (mg/L as Ca)	35	9.800	4.600	6.954	9.400	7.600	6.800	6.100	4.760
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	35	3.600	2.000	2.786	3.600	3.100	2.800	2.500	2.000
00930	SODIUM, DISSOLVED (mg/L as Na)	35	11.000	3.600	5.360	9.640	5.800	5.100	4.600	3.680
00935	POTASSIUM, DISSOLVED (mg/L as K)	35	2.300	1.000	1.629	2.220	2.000	1.700	1.200	1.000
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	35	43.000	17.000	28.600	40.600	33.000	28.000	24.000	17.800
00945	SULFATE, DISSOLVED (mg/L as SO_4)	35	9.000	2.900	5.263	8.360	6.000	5.400	3.700	3.060
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	35	15.000	3.600	5.234	8.440	5.500	5.000	4.400	3.600
00950	FLUORIDE, DISSOLVED (mg/L as F)	35	0.300	<0.100	0.094*	0.200	0.100	<0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	35	16.000	7.600	12.537	15.200	13.000	13.000	12.000	9.200
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	34	150.000	14.000	66.941	123.750	74.000	64.000	58.000	31.250
38260	DETERGENTS, MBAS (mg/L)	13	0.040	0.010	0.027	0.040	0.030	0.030	0.020	0.010
80154	SUSPENDED SEDIMENT (mg/L)	33	162.000	1.000	21.394	109.500	20.000	9.000	6.000	3.100

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 32.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 26, Eno River at Hillsborough

Location.--Latitude 36°04'18", longitude 79°05'49", Orange County, on left bank 900 ft downstream from bridge on State Highway 86 at Hillsoborough, and 2 mi downstream from Sevenmile Creek, USGS downstream order number 02085000.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	31	0.040	<0.010	0.010*	0.040	0.010	<0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	23	0.020	<0.010	--	0.020	<0.010	<0.010	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	30	0.580	0.098	0.307	0.536	0.400	0.300	0.222	0.121
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	35	0.600	0.100	0.311	0.592	0.400	0.300	0.250	0.132
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	31	0.130	<0.010	0.054*	0.120	0.080	0.040	0.030	<0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	35	0.150	0.010	0.052	0.126	0.070	0.050	0.030	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	34	2.800	0.160	0.439	1.525	0.485	0.320	0.248	0.160
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	29	0.670	0.110	0.346	0.650	0.410	0.340	0.255	0.140
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	35	2.900	0.200	0.494	1.540	0.500	0.400	0.300	0.200
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	34	0.700	<0.200	0.375*	0.700	0.500	0.300	0.300	<0.200
00600	NITROGEN, TOTAL (mg/L as N)	34	3.400	0.340	0.801	2.125	0.870	0.700	0.525	0.385
00665	PHOSPHORUS, TOTAL (mg/L as P)	35	0.130	0.010	0.043	0.122	0.050	0.034	0.030	0.010
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	35	1.200	<0.010	0.049*	0.070	0.020	0.010	<0.010	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	31	0.200	<0.010	0.024*	0.060	0.030	0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	35	0.040	<0.010	0.011*	0.030	0.020	<0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<"

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 32.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 26, Eno River at Hillsborough

Location.--Latitude 36°04'18", longitude 79°05'49", Orange County, on left bank 900 ft downstream from bridge on State Highway 86 at Hillsoborough, and 2 mi downstream from Sevenmile Creek, USGS downstream order number 02085000.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	12	1,500.000	90.000	430.833	1,500.000	845.000	195.000	120.000	90.000
01002	ARSENIC, TOTAL (µg/L as As)	13	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	13	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	13	4.000	<1.000	0.945*	4.000	1.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	13	3.000	<1.000	0.964*	3.000	1.000	1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	13	7.000	1.000	3.077	7.000	5.000	2.000	2.000	1.000
01045	IRON, TOTAL (µg/L as Fe)	13	3,600.000	550.000	1,443.077	3,600.000	1,800.000	1,100.000	805.000	550.000
01051	LEAD, TOTAL (µg/L as Pb)	13	5.000	<1.000	2.192*	5.000	3.000	2.000	1.000	1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	13	590.000	80.000	226.154	590.000	295.000	200.000	115.000	80.000
71900	MERCURY, TOTAL (µg/L as Hg)	13	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	13	3.000	<1.000	--	3.000	<1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	13	3.000	<1.000	1.329*	3.000	2.000	1.000	<1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	13	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	13	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	13	20.000	<10.000	--	20.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 32.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 26, Eno River at Hillsborough

Location.--Latitude 36°04'18", longitude 79°05'49", Orange County, on left bank 900 ft downstream from bridge on State Highway 86 at Hillsoborough, and 2 mi downstream from Sevenmile Creek, USGS downstream order number 02085000.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	35	9.600	2.700	5.454	9.520	6.400	5.100	4.200	3.020
39330	ALDRIN, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	8	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	8	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	8	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	8	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	8	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	7	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	7	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 32.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 26, Eno River at Hillsborough

Location.--Latitude 36°04'18", longitude 79°05'49", Orange County, on left bank 900 ft downstream from bridge on State Highway 86 at Hillsoborough, and 2 mi downstream from Sevenmile Creek, USGS downstream order number 02085000.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.770	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 33.--*Statistical summary of water-quality data, October 1988 through September 1989*

Site 26A, Eno River intakes at Hillsborough

Location.--Latitude 36°04'02", longitude 79°07'39", Orange County, at Hillsborough water intake, USGS downstream order number 0208491605.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	12	138.000	63.000	79.000	138.000	80.000	78.000	65.750	63.000
00400	pH, FIELD (STANDARD pH UNITS)	12	7.100	5.700	--	7.100	6.625	5.950	5.800	5.700
00080	COLOR (PLATINUM-COBALT UNITS)	12	170.000	30.000	83.167	170.000	110.000	80.000	51.250	30.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	12	28.000	20.000	25.083	28.000	27.000	26.000	22.250	20.000
00915	CALCIUM, DISSOLVED (mg/L as Ca)	12	6.700	4.600	5.850	6.700	6.375	5.950	5.175	4.600
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	12	3.000	2.100	2.558	3.000	2.775	2.600	2.300	2.100
00930	SODIUM, DISSOLVED (mg/L as Na)	12	5.800	3.300	4.492	5.800	4.975	4.450	4.025	3.300
00935	POTASSIUM, DISSOLVED (mg/L as K)	12	2.400	1.300	1.725	2.400	2.050	1.600	1.400	1.300
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	12	31.000	17.000	23.500	31.000	25.000	24.000	20.250	17.000
00945	SULFATE, DISSOLVED (mg/L as SO_4)	12	12.000	3.000	6.933	12.000	10.750	5.450	4.000	3.000
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	12	6.000	4.000	4.917	6.000	5.500	4.800	4.225	4.000
00950	FLUORIDE, DISSOLVED (mg/L as F)	12	0.200	0.100	0.117	0.200	0.100	0.100	0.100	0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	12	16.000	9.800	12.567	16.000	14.000	12.500	11.000	9.800
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	12	67.000	42.000	56.000	67.000	63.250	55.500	51.250	42.000
38260	DETERGENTS, MBAS (mg/L)	12	0.070	0.010	0.036	0.070	0.040	0.035	0.030	0.010

Table 33.--*Statistical summary of water-quality data, October 1988 through September 1989*--Continued

Site 26A, Eno River intakes at Hillsborough

Location.--Latitude 36°04'02", longitude 79°07'39", Orange County, at Hillsborough water intake, USGS downstream order number 0208491605.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	12	0.030	<0.010	0.008*	0.030	0.010	<0.010	<0.010	<0.010
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	12	0.900	<0.100	0.305*	0.900	0.300	0.200	0.200	0.100
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	12	0.910	<0.100	0.296*	0.910	0.270	0.240	0.180	0.100
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	12	0.130	<0.010	0.052*	0.130	0.070	0.040	0.020	0.020
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	12	0.120	<0.010	0.049*	0.120	0.050	0.040	0.030	0.020
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	12	1.000	0.320	0.570	1.000	0.595	0.560	0.480	0.320
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	9	0.750	0.340	0.479	0.750	0.565	0.460	0.370	0.340
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	12	1.100	0.400	0.625	1.100	0.675	0.600	0.500	0.400
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	10	0.800	0.400	0.530	0.800	0.625	0.500	0.400	0.400
00600	NITROGEN, TOTAL (mg/L as N)	12	1.600	0.600	0.933	1.600	1.200	0.800	0.725	0.600
00665	PHOSPHORUS, TOTAL (mg/L as P)	12	0.080	0.030	0.049	0.080	0.060	0.050	0.030	0.030
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	12	0.040	0.010	0.028	0.040	0.038	0.030	0.020	0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	12	0.070	<0.010	0.023*	0.070	0.030	0.020	0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	12	0.040	<0.010	0.019*	0.040	0.030	0.020	0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 33.--*Statistical summary of water-quality data, October 1988 through September 1989*--Continued

Site 26A, Eno River intakes at Hillsborough

Location.--Latitude 36°04'02", longitude 79°07'39", Orange County, at Hillsborough water intake, USGS downstream order number 0208491605.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	4	4,200.000	160.000	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	4	<1.000	<1.000	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	4	3.000	<1.000	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	4	1.000	<1.000	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	4	1.000	<1.000	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	4	7,400.000	1,000.000	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	4	1,200.000	110.000	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	4	0.100	<0.100	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	4	<1.000	<1.000	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	3	2.000	<1.000	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 33.--*Statistical summary of water-quality data, October 1988 through September 1989*--Continued

Site 26A, Eno River intakes at Hillsborough

Location.--Latitude 36°04'02", longitude 79°07'39", Orange County, at Hillsborough water intake, USGS downstream order number 0208491605.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	12	8.100	5.000	6.383	8.100	7.350	6.300	5.225	5.000
39330	ALDRIN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	3	<0.001	<0.001	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	3	<0.100	<0.100	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	3	<1.000	<1.000	--	--	--	--	--	--
39786	TRITHION (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
32104	BROMOFORM, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34301	CHLOROBENZENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34311	CHLOROETHANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
32106	CHLOROFORM, TOTAL (µg/L)	3	0.200	<0.200	--	--	--	--	--	--
34418	METHYL CHLORIDE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	3	0.300	<0.200	--	--	--	--	--	--
34371	ETHYLBENZENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34413	METHYL BROMIDE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
77128	STYRENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34010	TOLUENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
39175	VINYL CHLORIDE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
81551	XYLENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	1	<0.010	--	--	--	--	--	--	--
39023	PHORATE, TOTAL (µg/L)	1	<0.010	--	--	--	--	--	--	--
39040	DEF, TOTAL (µg/L)	1	<0.010	--	--	--	--	--	--	--
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	3	<0.200	<0.200	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 34.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 27, Cane Creek near Orange Grove

Location.--Latitude 35°59'13", longitude 79°12'23", Orange County, on right bank at downstream side of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove, USGS downstream order number 02096846.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	57	625.000	0.050	28.040	167.500	8.700	2.200	0.695	0.188
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	56	152.000	40.000	83.946	124.150	97.000	81.000	70.500	49.250
00400	pH, FIELD (STANDARD pH UNITS)	57	8.100	5.500	--	7.740	7.300	7.100	6.650	5.800
00010	WATER TEMPERATURE (°C)	54	25.000	3.000	14.694	23.500	21.500	16.000	8.500	5.000
00080	COLOR (PLATINUM-COBALT UNITS)	50	250.000	15.000	52.380	124.500	62.500	45.000	27.750	18.000
00300	OXYGEN, DISSOLVED (mg/L)	50	15.400	5.800	9.746	14.090	11.850	8.850	7.575	6.400
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	47	169.000	72.000	97.298	137.800	104.000	91.000	87.000	76.800
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	50	49.000	15.000	28.780	43.450	33.000	27.500	23.000	18.550
00915	CALCIUM, DISSOLVED (mg/L as Ca)	50	12.000	3.500	7.162	11.000	8.225	6.900	5.575	4.600
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	50	4.500	1.600	2.648	3.880	3.100	2.500	2.175	1.755
00930	SODIUM, DISSOLVED (mg/L as Na)	50	6.500	2.400	5.010	6.200	5.625	5.050	4.575	3.410
00935	POTASSIUM, DISSOLVED (mg/L as K)	50	9.800	0.700	2.308	8.070	2.800	1.700	1.000	0.700
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	50	55.000	7.000	26.960	47.350	31.000	25.000	21.000	13.100
00945	SULFATE, DISSOLVED (mg/L as SO_4)	49	12.000	1.400	4.188	9.100	5.700	3.500	2.500	1.450
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	50	11.000	3.100	6.396	9.505	7.375	6.100	5.300	4.020
00950	FLUORIDE, DISSOLVED (mg/L as F)	50	0.300	<0.100	0.095*	0.200	0.100	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	50	30.000	6.800	13.478	17.450	15.250	14.000	11.000	7.550
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	50	125.000	32.000	64.520	91.100	73.250	65.000	55.000	38.850
38260	DETERGENTS, MBAS (mg/L)	26	0.090	0.010	0.035	0.083	0.040	0.030	0.020	0.010
80154	SUSPENDED SEDIMENT (mg/L)	52	1,110.000	0.000	57.827	441.799	14.750	7.000	4.000	1.000
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	2	0.000	--	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	2	0.000	--	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	2	0.000	--	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	2	1.000	1.000	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	2	7.000	6.000	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 34.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 27, Cane Creek near Orange Grove

Location.--Latitude 35°59'13", longitude 79°12'23", Orange County, on right bank at downstream side of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove, USGS downstream order number 02096846.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	45	0.120	<0.010	0.013*	0.050	0.010	0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	24	0.100	<0.010	0.012*	0.050	0.010	<0.010	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	45	1.300	0.076	0.638	1.170	0.900	0.600	0.365	0.103
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	49	1.400	0.076	0.659	1.150	0.915	0.630	0.435	0.115
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	45	0.340	<0.010	0.047*	0.200	0.040	0.020	0.020	<0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	49	0.360	<0.010	0.046*	0.130	0.050	0.030	0.020	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	44	2.000	0.130	0.525	1.375	0.655	0.390	0.280	0.170
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	36	0.980	0.170	0.416	0.972	0.468	0.380	0.272	0.178
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	49	2.300	<0.200	0.537*	1.500	0.600	0.400	0.300	<0.200
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	43	1.300	<0.200	0.423*	1.000	0.500	0.400	0.300	<0.200
00600	NITROGEN, TOTAL (mg/L as N)	44	3.400	0.440	1.227	2.650	1.475	1.100	0.862	0.485
00665	PHOSPHORUS, TOTAL (mg/L as P)	49	0.790	0.020	0.112	0.375	0.130	0.060	0.040	0.025
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	49	0.370	0.010	0.070	0.205	0.095	0.040	0.020	0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	45	0.450	0.010	0.066	0.261	0.075	0.040	0.020	0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	49	0.320	<0.010	0.056*	0.150	0.070	0.030	0.020	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 34.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 27, Cane Creek near Orange Grove

Location.--Latitude 35°59'13", longitude 79°12'23", Orange County, on right bank at downstream side of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove, USGS downstream order number 02096846.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	19	950.000	10.000	178.947	950.000	150.000	110.000	50.000	10.000
01002	ARSENIC, TOTAL (µg/L as As)	19	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	19	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	19	20.000	<1.000	1.527*	20.000	1.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	19	2.000	<1.000	0.715*	2.000	1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	18	14.000	1.000	3.167	14.000	3.250	2.000	2.000	1.000
01045	IRON, TOTAL (µg/L as Fe)	19	2,500.000	270.000	834.737	2,500.000	960.000	740.000	490.000	270.000
01051	LEAD, TOTAL (µg/L as Pb)	19	10.000	<1.000	1.587*	10.000	1.000	1.000	1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	19	450.000	<10.000	84.392*	450.000	80.000	40.000	20.000	<10.000
71900	MERCURY, TOTAL (µg/L as Hg)	19	0.500	<0.100	--	0.500	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	19	4.000	<1.000	--	4.000	<1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	19	4.000	<1.000	0.876*	4.000	1.000	<1.000	<1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	19	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	18	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	19	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 34.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 27, Cane Creek near Orange Grove

Location.--Latitude 35°59'13", longitude 79°12'23", Orange County, on right bank at downstream side of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove, USGS downstream order number 02096846.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	49	20.000	2.500	5.865	13.000	7.400	4.700	3.500	2.750
39330	ALDRIN, TOTAL (µg/L)	19	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39333	ALDRIN, BTM (µg/kg)	4	<0.700	<0.100	--	--	--	--	--	--
39350	CHLORDANE, TOTAL (µg/L)	19	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39351	CHLORDANE, BTM (µg/kg)	4	<6.000	<1.000	--	--	--	--	--	--
39360	DDD, TOTAL (µg/L)	19	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39363	DDD, BTM (µg/kg)	4	<0.700	<0.100	--	--	--	--	--	--
39365	DDE, TOTAL (µg/L)	19	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39368	DDE, BTM (µg/kg)	4	0.300	<0.100	--	--	--	--	--	--
39370	DDT, TOTAL (µg/L)	19	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39373	DDT, BTM (µg/kg)	4	0.100	<0.100	--	--	--	--	--	--
39570	DIAZINON, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39571	DIAZINON, BTM (µg/kg)	4	<1.000	<0.100	--	--	--	--	--	--
39380	DIELDRIN, TOTAL (µg/L)	19	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39383	DIELDRIN, BTM (µg/kg)	4	<0.700	<0.100	--	--	--	--	--	--
39388	ENDOSULFAN, TOTAL (µg/L)	19	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39389	ENDOSULFAN, BTM (µg/kg)	4	<0.700	<0.100	--	--	--	--	--	--
39390	ENDRIN, TOTAL (µg/L)	19	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39393	ENDRIN, BTM (µg/kg)	4	<0.700	<0.100	--	--	--	--	--	--
39398	ETHION, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39399	ETHION, BTM (µg/kg)	4	<1.000	<0.100	--	--	--	--	--	--
39516	PCB, TOTAL (µg/L)	19	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39519	PCB, BTM (µg/kg)	4	6.000	<1.000	--	--	--	--	--	--
39250	PCN, TOTAL (µg/L)	19	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39251	PCN, BTM (µg/kg)	4	<7.000	<1.000	--	--	--	--	--	--
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	19	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	4	<0.700	<0.100	--	--	--	--	--	--
39410	HEPTACHLOR, TOTAL (µg/L)	19	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39413	HEPTACHLOR, BTM (µg/kg)	4	<0.700	<0.100	--	--	--	--	--	--
39340	LINDANE, TOTAL (µg/L)	19	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39343	LINDANE, BTM (µg/kg)	4	<0.700	<0.100	--	--	--	--	--	--
39530	MALATHION, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39531	MALATHION, BTM (µg/kg)	4	<1.000	<0.100	--	--	--	--	--	--
39480	METHOXYCHLOR, TOTAL (µg/L)	19	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39481	METHOXYCHLOR, BTM (µg/kg)	4	<0.700	<0.100	--	--	--	--	--	--
39600	METHYL PARATHION, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39601	METHYL PARATHION, BTM (µg/kg)	4	<1.000	<0.100	--	--	--	--	--	--
39790	METHYL TRITHION, TOTAL (µg/L)	15	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39791	METHYL TRITHION, BTM (µg/kg)	4	<1.000	<0.100	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	19	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39758	MIREX, BTM (µg/kg)	4	<0.700	<0.100	--	--	--	--	--	--
39540	PARATHION, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39541	PARATHION, BTM (µg/kg)	4	<1.000	<0.100	--	--	--	--	--	--
39034	PERTHANE, TOTAL (µg/L)	19	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
81886	PERTHANE, BTM (µg/kg)	4	<7.000	<1.000	--	--	--	--	--	--
39400	TOXAPHENE, TOTAL (µg/L)	19	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39403	TOXAPHENE, BTM (µg/kg)	4	<70.000	<10.000	--	--	--	--	--	--
39786	TRITHION, TOTAL (µg/L)	16	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39787	TRITHION, BTM (µg/kg)	4	<1.000	<0.100	--	--	--	--	--	--
34030	BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYLCHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	10	0.500	<0.200	--	0.500	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	10	0.300	<0.200	--	0.300	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 34.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 27, Cane Creek near Orange Grove

Location.--Latitude 35°59'13", longitude 79°12'23", Orange County, on right bank at downstream side of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove, USGS downstream order number 02096846.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34205	ACENAPHTHENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34200	ACENAPHTHYLENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34220	ANTHRACENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34526	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	4	<400.000	<400.000	--	--	--	--	--	--
34247	BENZO(A)PYRENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34230	BENZO(B)FLUORANTHENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	4	<400.000	<400.000	--	--	--	--	--	--
34521	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	4	<400.000	<400.000	--	--	--	--	--	--
34242	BENZO(K)FLUORANTHENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	4	<400.000	<400.000	--	--	--	--	--	--
34452	PARACHLOROMETACRESOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	4	<600.000	<600.000	--	--	--	--	--	--
34320	CHRYSENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	4	<400.000	<400.000	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	4	<400.000	<400.000	--	--	--	--	--	--
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	4	<400.000	<400.000	--	--	--	--	--	--
34336	DIETHYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34341	DIMETHYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34657	4,6-DINITRO-ORTHOCRESOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34376	FLUORANTHENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34381	FLUORENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
39700	HEXACHLOROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
39702	HEXACHLOROBUTADIENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34396	HEXACHLOROETHANE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	4	<400.000	<400.000	--	--	--	--	--	--
34408	ISOPHORONE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34433	N-NITROSODIPHENYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34696	NAPHTHALENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34447	NITROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34438	N-NITROSODIMETHYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39032	PENTACHLOROPHENOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	4	<600.000	<600.000	--	--	--	--	--	--
34461	PHENANTHRENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34694	PHENOL (C6H-50H), TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34469	PYRENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34551	1,2,4-TRICHLOROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 34.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 27, Cane Creek near Orange Grove

Location.--Latitude 35°59'13", longitude 79°12'23", Orange County, on right bank at downstream side of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove, USGS downstream order number 02096846.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34278	BIS(2-CHLOROETHOXY)METHANE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34273	BIS-2-CHLOROETHYL ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34283	BIS(2-CHLOROISOPROPYL)ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34581	2-CHLORONAPHTHALENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34586	2-CHLOROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34591	2-NITROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34601	2,4-DICHLOROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34606	2,4-DIMETHYLPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34616	2,4-DINITROPHENOL, TOTAL (µg/L)	1	<20.000	--	--	--	--	--	--	--
34611	2,4-DINITROTOLUENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34621	2,4,6-TRICHLOROPHENOL, TOTAL (µg/L)	1	<20.000	--	--	--	--	--	--	--
34626	2,6-DINITROTOLUENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34636	4-BROMOPHENYL ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34646	4-NITROPHENOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	4	<600.000	<600.000	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	4	280.000	<200.000	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	4	<400.000	<400.000	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	4	<600.000	<600.000	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	4	<600.000	<600.000	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	4	<600.000	<600.000	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	4	<200.000	<200.000	--	--	--	--	--	--
38932	CHLOPYRIFOS, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTal (µg/L)	10	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYLATRAZINE (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE (µg/L)	1	0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	0.150	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.160	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 35.--*Statistical summary of water-quality data, April 1989 through September 1992*

Site 28, Cane Creek Reservoir at Dam near White Cross

Location.--Latitude 35°5659", longitude 79°14'29", Orange County, at Orange Water and Sewage Authority intakes, 0.7 mi above State Highway 54, and 3.6 mi northwest of White Cross, USGS downstream order number 0209684980.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	21	111.000	68.000	87.143	111.000	94.000	82.000	78.000	68.400
00400	pH, FIELD (STANDARD pH UNITS)	21	8.500	6.200	--	8.490	7.350	6.800	6.650	6.220
00010	WATER TEMPERATURE (°C)	21	27.500	11.500	21.786	27.500	26.750	22.000	18.000	11.700
00080	COLOR (PLATINUM-COBALT UNITS)	21	90.000	15.000	42.048	88.500	65.000	30.000	22.500	15.300
00300	OXYGEN, DISSOLVED (mg/L)	21	11.600	3.000	7.710	11.580	9.150	7.600	6.500	3.270
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	21	120.000	28.000	89.143	119.800	109.000	85.000	74.000	31.800
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	21	40.000	23.000	27.429	38.900	29.000	27.000	25.500	23.100
00915	CALCIUM, DISSOLVED (mg/L as Ca)	21	9.600	5.600	6.790	9.390	7.250	7.000	6.000	5.610
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	21	3.800	2.000	2.552	3.700	2.650	2.500	2.400	2.010
00930	SODIUM, DISSOLVED (mg/L as Na)	21	5.800	3.400	4.167	5.760	4.200	4.000	3.800	3.400
00935	POTASSIUM, DISSOLVED (mg/L as K)	21	3.600	1.800	2.648	3.570	3.000	2.700	2.300	1.820
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	21	36.000	19.000	27.762	35.800	30.500	28.000	24.500	19.200
00945	SULFATE, DISSOLVED (mg/L as SO_4)	21	7.000	1.200	3.795	6.880	4.650	3.900	2.800	1.230
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	21	6.900	3.900	5.333	6.820	5.800	5.300	4.850	3.920
00950	FLUORIDE, DISSOLVED (mg/L as F)	21	0.200	<0.100	0.109*	0.200	0.100	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	21	16.000	2.200	8.000	15.800	8.750	7.400	5.750	2.310
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	21	88.000	29.000	59.048	87.200	66.000	58.000	50.500	30.300
38260	DETERGENTS, MBAS (mg/L)	10	0.180	0.010	0.056	0.180	0.063	0.040	0.030	0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 35.--*Statistical summary of water-quality data, April 1989 through September 1992*--Continued

Site 28, Cane Creek Reservoir at Dam near White Cross

Location.--Latitude 35°5659", longitude 79°14'29", Orange County, at Orange Water and Sewage Authority intakes, 0.7 mi above State Highway 54, and 3.6 mi northwest of White Cross, USGS downstream order number 0209684980.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	19	0.020	<0.010	--	0.020	<0.010	<0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	12	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	19	1.700	<0.050	0.177*	1.700	0.200	<0.100	<0.050	<0.050
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	21	1.700	<0.050	0.171*	0.440	0.140	<0.100	<0.050	<0.050
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	19	0.660	<0.010	0.181*	0.660	0.540	0.060	0.010	<0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	21	0.650	<0.010	0.145*	0.550	0.180	0.040	0.020	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	21	1.600	0.380	0.696	1.570	0.815	0.570	0.495	0.381
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	19	1.600	0.150	0.476	1.600	0.540	0.390	0.270	0.150
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	21	1.700	0.400	0.871	1.660	1.150	0.800	0.600	0.400
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	21	1.700	0.200	0.619	1.640	0.750	0.500	0.400	0.210
00600	NITROGEN, TOTAL (mg/L as N)	21	2.100	0.500	1.026	2.090	1.200	0.900	0.770	0.500
00665	PHOSPHORUS, TOTAL (mg/L as P)	21	0.230	0.020	0.044	0.213	0.040	0.030	0.030	0.020
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	21	0.200	<0.010	0.023*	0.060	0.020	<0.010	<0.010	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	19	0.200	<0.010	0.017*	0.200	0.010	<0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	21	0.170	<0.010	--	0.030	<0.010	<0.010	<0.010	<0.010
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	21	64.000	0.100	8.986	59.500	8.100	7.400	2.850	0.300
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	21	9.100	<0.100	0.737*	1.300	0.500	<0.500	<0.100	<0.100

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 35.--*Statistical summary of water-quality data, April 1989 through September 1992*--Continued

Site 28, Cane Creek Reservoir at Dam near White Cross

Location.--Latitude 35°5659", longitude 79°14'29", Orange County, at Orange Water and Sewage Authority intakes, 0.7 mi above State Highway 54, and 3.6 mi northwest of White Cross, USGS downstream order number 0209684980.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	21	270.000	20.000	63.333	258.000	80.000	50.000	30.000	20.000
01002	ARSENIC, TOTAL (µg/L as As)	21	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	21	1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	21	4.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	21	4.000	<1.000	1.219*	4.000	1.000	1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	20	400.000	<1.000	22.683*	10.000	3.000	2.000	2.000	<1.000
01045	IRON, TOTAL (µg/L as Fe)	21	3,100.000	170.000	800.952	3,090.000	980.000	430.000	230.000	171.000
01051	LEAD, TOTAL (µg/L as Pb)	21	2.000	<1.000	1.136*	2.000	2.000	1.000	<1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	21	5,600.000	30.000	1,335.714	5,600.000	1,800.000	220.000	95.000	34.000
71900	MERCURY, TOTAL (µg/L as Hg)	21	0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	21	3.000	<1.000	0.693*	2.000	1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	21	4.000	<1.000	1.467*	3.000	2.000	1.000	<1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	21	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	18	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	21	70.000	<10.000	9.908*	20.000	10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 35.--*Statistical summary of water-quality data, April 1989 through September 1992*--Continued

Site 28, Cane Creek Reservoir at Dam near White Cross

Location.--Latitude 35°5659", longitude 79°14'29", Orange County, at Orange Water and Sewage Authority intakes, 0.7 mi above State Highway 54, and 3.6 mi northwest of White Cross, USGS downstream order number 0209684980.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	21	49.000	2.900	9.738	46.000	9.150	7.900	6.100	2.960
39330	ALDRIN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	10	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	10	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	10	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	10	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	10	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	10	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	10	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	10	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	5	<0.100	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	9	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	9	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	9	<0.100	<0.010	--	<0.100	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	5	<0.100	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	0.060	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.270	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 36.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 29, Morgan Creek near White Cross

Location.--Latitude 35°55'25", longitude 79°06'56", Orange County, at bridge on State Highway 54, 2 mi upstream of University Lake, and 3.5 mi east of White Cross, USGS downstream order number 02097464.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	53	127.000	0.200	8.695	44.200	6.500	2.700	1.700	0.240
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	52	222.000	56.000	108.192	178.450	119.000	108.000	88.500	74.300
00400	pH, FIELD (STANDARD pH UNITS)	53	8.500	5.600	--	7.860	7.400	7.100	6.850	5.870
00010	WATER TEMPERATURE (°C)	52	24.000	3.000	14.750	23.350	20.000	14.500	9.125	5.650
00080	COLOR (PLATINUM-COBALT UNITS)	53	150.000	15.000	49.585	112.000	61.000	45.000	30.000	20.200
00300	OXYGEN, DISSOLVED (mg/L)	51	14.600	5.400	9.827	14.400	11.700	9.800	7.900	5.820
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	50	171.000	57.000	96.800	135.000	108.500	94.000	87.750	59.200
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	53	61.000	19.000	35.245	53.700	40.000	34.000	29.000	23.700
00915	CALCIUM, DISSOLVED (mg/L as Ca)	53	15.000	4.200	8.851	13.600	10.000	8.700	7.150	5.680
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	53	5.600	2.000	3.191	4.800	3.750	3.000	2.650	2.200
00930	SODIUM, DISSOLVED (mg/L as Na)	53	6.600	2.700	5.125	6.460	5.600	5.200	4.600	3.710
00935	POTASSIUM, DISSOLVED (mg/L as K)	53	18.000	0.100	4.111	14.500	4.700	3.200	1.950	1.200
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	53	66.000	10.000	34.264	53.600	39.000	35.000	26.500	18.700
00945	SULFATE, DISSOLVED (mg/L as SO_4)	52	12.000	2.600	5.240	12.000	6.775	4.050	3.400	2.600
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	53	17.000	3.900	6.974	12.800	7.500	6.600	5.500	4.500
00950	FLUORIDE, DISSOLVED (mg/L as F)	53	0.400	<0.100	0.110*	0.300	0.100	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	52	20.000	5.400	12.825	19.350	15.750	13.500	9.850	6.330
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	53	151.000	1.000	73.000	120.700	84.000	71.000	58.000	43.500
38260	DETERGENTS, MBAS (mg/L)	25	0.170	0.010	0.047	0.152	0.050	0.040	0.030	0.013
80154	SUSPENDED SEDIMENT (mg/L)	42	582.000	0.000	25.548	107.550	9.250	5.500	4.000	1.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<"

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 36.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 29, Morgan Creek near White Cross

Location.--Latitude 35°55'25", longitude 79°06'56", Orange County, at bridge on State Highway 54, 2 mi upstream of University Lake, and 3.5 mi east of White Cross, USGS downstream order number 02097464.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY									
	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN			
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	49	0.070	<0.010	0.019*	0.070	0.030	0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	29	0.050	<0.010	0.013*	0.040	0.020	0.010	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	49	1.700	0.170	0.830	1.600	1.100	0.800	0.510	0.265
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	53	1.700	0.180	0.832	1.560	1.100	0.800	0.545	0.312
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	49	1.600	<0.010	0.132*	0.560	0.060	0.030	0.020	<0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	53	1.500	<0.010	0.123*	0.540	0.080	0.040	0.020	<0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	50	1.900	0.180	0.658	1.845	0.882	0.470	0.377	0.271
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	41	1.500	0.160	0.548	1.500	0.705	0.470	0.265	0.171
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	53	3.000	0.200	0.764	2.520	0.900	0.500	0.400	0.200
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	48	2.600	<0.200	0.627*	2.000	0.700	0.400	0.300	<0.200
00600	NITROGEN, TOTAL (mg/L as N)	50	4.400	0.670	1.635	3.595	2.150	1.400	0.975	0.741
00665	PHOSPHORUS, TOTAL (mg/L as P)	53	1.200	0.040	0.276	0.620	0.405	0.200	0.130	0.067
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	53	0.970	0.020	0.220	0.453	0.330	0.160	0.100	0.040
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	49	0.900	0.030	0.225	0.495	0.350	0.150	0.100	0.055
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	53	0.900	0.010	0.196	0.413	0.285	0.140	0.090	0.037

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 36.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 29, Morgan Creek near White Cross

Location.--Latitude 35°55'25", longitude 79°06'56", Orange County, at bridge on State Highway 54, 2 mi upstream of University Lake, and 3.5 mi east of White Cross, USGS downstream order number 02097464.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	18	1,700.000	40.000	226.111	1,700.000	162.500	90.000	57.500	40.000
01002	ARSENIC, TOTAL (µg/L as As)	18	1.000	<1.000	1.000*	1.000	1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	18	3.000	<1.000	--	3.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	18	4.000	<1.000	0.971*	4.000	1.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	18	1.000	<1.000	1.000*	1.000	1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	18	6.000	<1.000	2.618*	6.000	3.000	2.000	2.000	<1.000
01045	IRON, TOTAL (µg/L as Fe)	18	2,900.000	420.000	905.000	2,900.000	1,100.000	735.000	615.000	420.000
01051	LEAD, TOTAL (µg/L as Pb)	17	3.000	<1.000	1.394*	3.000	2.000	1.000	<5.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	18	420.000	20.000	83.889	420.000	100.000	45.000	40.000	20.000
71900	MERCURY, TOTAL (µg/L as Hg)	17	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	18	3.000	<1.000	0.702*	3.000	1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	18	4.000	<1.000	1.312*	4.000	2.000	1.000	<1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	18	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	17	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	18	20.000	<10.000	6.448*	20.000	10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 36.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 29, Morgan Creek near White Cross

Location.--Latitude 35°55'25", longitude 79°06'56", Orange County, at bridge on State Highway 54, 2 mi upstream of University Lake, and 3.5 mi east of White Cross, USGS downstream order number 02097464.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	53	25.000	2.400	6.321	15.900	6.900	4.800	4.000	2.780
39330	ALDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	11	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	11	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	11	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	11	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	0.500	<0.200	--	0.500	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 37.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 30, University Lake at intakes near Chapel Hill

Location.--Latitude 35°53'48", longitude 79°05'33", Orange County, at Orange Water and Sewage Authority intakes, and 1.8 mi southwest of Chapel Hill, USGS downstream order number 0209749990.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	19	186.000	73.000	89.947	186.000	90.000	86.000	80.000	73.000
00400	pH, FIELD (STANDARD pH UNITS)	19	7.400	6.100	--	7.400	7.100	7.000	6.800	6.100
00010	WATER TEMPERATURE (°C)	7	28.500	12.500	22.571	28.500	27.000	24.000	19.000	12.500
00080	COLOR (PLATINUM-COBALT UNITS)	20	120.000	8.000	37.450	120.000	34.250	28.500	25.000	8.600
00300	OXYGEN, DISSOLVED (mg/L)	7	10.200	4.600	8.129	10.200	10.200	9.800	5.900	4.600
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	6	133.000	75.000	101.500	133.000	126.250	101.000	75.000	75.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	20	42.000	22.000	28.100	41.450	29.750	28.000	25.000	22.050
00915	CALCIUM, DISSOLVED (mg/L as Ca)	20	12.000	5.600	7.135	11.805	7.500	7.050	6.225	5.610
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	20	2.900	2.000	2.500	2.900	2.675	2.600	2.225	2.000
00930	SODIUM, DISSOLVED (mg/L as Na)	20	5.300	3.200	4.725	5.300	5.075	4.900	4.500	3.245
00935	POTASSIUM, DISSOLVED (mg/L as K)	20	3.500	1.400	2.575	3.490	3.100	2.750	1.950	1.410
00410	ALKALINITY, LAB (mg/L as $CaCO_3$)	20	49.000	20.000	29.200	48.450	31.750	27.500	25.250	20.200
00945	SULFATE, DISSOLVED (mg/L as SO_4)	20	11.000	0.200	4.995	10.850	6.150	4.950	3.775	0.340
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	20	6.800	4.100	5.045	6.755	5.300	5.100	4.500	4.105
00950	FLUORIDE, DISSOLVED (mg/L as F)	20	0.300	<0.100	0.107*	0.200	0.100	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	20	17.000	4.200	11.630	16.950	13.750	12.500	9.850	4.240
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	20	124.000	43.000	67.000	123.800	67.000	63.000	57.250	43.250
38260	DETERGENTS, MBAS (mg/L)	11	0.160	0.010	0.047	0.160	0.050	0.040	0.030	0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 37.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 30, University Lake at intakes near Chapel Hill

Location.--Latitude 35°53'48", longitude 79°05'33", Orange County, at Orange Water and Sewage Authority intakes, and 1.8 mi southwest of Chapel Hill, USGS downstream order number 0209749990.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	18	0.020	<0.010	0.008*	0.020	0.010	<0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	10	0.020	<0.010	--	0.020	<0.010	<0.010	<0.010	<0.010
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	18	0.600	<0.050	0.091*	0.600	0.100	<0.100	<0.100	<0.050
00631	$NO_2 + NO_3$, DISSOLVED (mg/L as N)	20	0.470	<0.050	0.080*	0.300	0.100	<0.100	<0.050	<0.050
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	18	2.300	0.010	0.298	2.300	0.110	0.045	0.030	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	20	2.300	0.010	0.190	2.204	0.085	0.055	0.030	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	20	1.500	0.360	0.650	1.470	0.747	0.580	0.503	0.362
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	20	0.940	0.170	0.429	0.930	0.547	0.385	0.265	0.173
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	20	3.200	0.400	0.920	3.170	0.900	0.650	0.600	0.400
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	20	2.700	0.200	0.620	2.615	0.800	0.450	0.300	0.205
00600	NITROGEN, TOTAL (mg/L as N)	20	3.200	0.400	0.988	3.170	1.000	0.750	0.600	0.400
00665	PHOSPHORUS, TOTAL (mg/L as P)	20	0.080	0.020	0.045	0.080	0.058	0.040	0.030	0.020
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	20	0.080	<0.010	0.019*	0.050	0.020	0.010	<0.010	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	18	0.050	<0.010	0.014*	0.050	0.020	0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	20	0.070	<0.010	0.012*	0.040	<0.010	<0.010	<0.010	<0.010
70953	CHLOROPHYLL *A*, PHYTOPLANKTON (µg/L)	15	13.000	1.100	6.433	13.000	9.100	6.800	3.800	1.100
70954	CHLOROPHYLL *B*, PHYTOPLANKTON (µg/L)	15	37.000	<0.100	2.638*	37.000	0.500	<0.400	<0.100	<0.100

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 37.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 30, University Lake at intakes near Chapel Hill

Location.--Latitude 35°53'48", longitude 79°05'33", Orange County, at Orange Water and Sewage Authority intakes, and 1.8 mi southwest of Chapel Hill, USGS downstream order number 0209749990.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	20	240.000	10.000	58.500	236.000	70.000	40.000	30.000	10.000
01002	ARSENIC, TOTAL (µg/L as As)	20	1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	20	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	20	4.000	<1.000	0.829*	2.000	1.000	<1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	20	2.000	<1.000	0.698*	1.000	1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	7	24.000	<1.000	5.248*	24.000	4.000	2.000	<1.000	<1.000
01045	IRON, TOTAL (µg/L as Fe)	20	7,400.000	150.000	700.000	7,064.005	485.000	320.000	252.500	152.000
01051	LEAD, TOTAL (µg/L as Pb)	8	3.000	<1.000	1.525*	3.000	2.000	1.000	<1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	20	7,900.000	70.000	727.500	7,620.004	340.000	180.000	112.500	71.000
71900	MERCURY, TOTAL (µg/L as Hg)	20	0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	8	4.000	<1.000	--	4.000	1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	7	2.000	<1.000	--	2.000	1.000	1.000	<1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	20	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	19	2.000	<1.000	--	2.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	8	20.000	<10.000	--	20.000	10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 37.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 30, University Lake at intakes near Chapel Hill

Location.--Latitude 35°53'48", longitude 79°05'33", Orange County, at Orange Water and Sewage Authority intakes, and 1.8 mi southwest of Chapel Hill, USGS downstream order number 0209749990.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	20	15.000	4.800	7.595	14.740	8.825	6.850	6.050	4.820
39330	ALDRIN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	9	<0.050	<0.010	--	<0.050	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	10	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	9	<0.050	<0.010	--	<0.050	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	10	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	10	0.001	<0.001	--	0.001	<0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	9	<0.050	<0.010	--	<0.050	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	9	<0.050	<0.010	--	<0.050	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	9	<0.050	<0.010	--	<0.050	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	10	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	10	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	9	<0.050	<0.010	--	<0.050	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	7	0.400	<0.200	--	0.400	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	7	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	7	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	4	<0.050	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	7	<0.050	<0.010	--	<0.050	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	7	<0.050	<0.010	--	<0.050	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	7	<0.050	<0.010	--	<0.050	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	3	<0.050	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.130	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.060	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 38.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 31, Cape Fear River at State Highway 42 near Brickhaven

Location.--Latitude 35°32'54", longitude 79°01'34", Chatham County, at bridge on State Highway 42, and 1.8 mi south of Brickhaven, USGS downstream order number 0210215985.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00060	DISCHARGE (ft^3/s)	49	20,700.000	563.000	3,661.939	16,000.000	3,765.000	1,230.000	800.000	600.000
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	48	282.000	66.000	142.125	254.950	160.750	139.000	110.500	70.350
00400	pH, FIELD (STANDARD pH UNITS)	49	8.100	6.200	--	7.750	7.400	7.100	6.850	6.450
00010	WATER TEMPERATURE (°C)	49	29.500	5.000	17.643	27.500	25.000	19.000	11.000	6.250
00080	COLOR (PLATINUM-COBALT UNITS)	49	230.000	13.000	65.571	215.000	75.000	55.000	31.500	14.000
00300	OXYGEN, DISSOLVED (mg/L)	49	13.600	3.800	8.949	13.250	11.500	9.100	6.800	4.000
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	47	172.000	47.000	89.809	126.000	101.000	95.000	77.000	49.400
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	49	36.000	12.000	28.143	35.500	31.000	28.000	25.000	20.000
00915	CALCIUM, DISSOLVED (mg/L as Ca)	49	9.000	2.500	6.831	8.850	7.550	6.900	6.200	4.900
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	49	3.400	1.300	2.680	3.300	3.000	2.700	2.400	1.900
00930	SODIUM, DISSOLVED (mg/L as Na)	49	38.000	4.800	15.733	35.000	18.500	14.000	10.500	5.550
00935	POTASSIUM, DISSOLVED (mg/L as K)	49	5.400	1.400	3.102	5.000	3.700	3.100	2.350	1.750
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	49	48.000	11.000	28.082	42.500	33.500	27.000	23.000	15.500
00945	SULFATE, DISSOLVED (mg/L as SO_4)	49	37.000	7.800	16.363	30.500	20.000	15.000	11.500	9.150
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	49	32.000	5.100	12.790	27.500	15.000	11.000	8.750	5.500
00950	FLUORIDE, DISSOLVED (mg/L as F)	48	0.600	<0.100	0.163*	0.300	0.200	0.100	0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	49	11.000	1.600	7.869	10.000	9.650	8.300	6.800	3.650
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	48	150.000	51.000	91.000	132.600	103.750	90.500	75.750	55.000
38260	MBAS (mg/L)	25	0.110	0.010	0.062	0.104	0.080	0.060	0.050	0.019
80154	SUSPENDED SEDIMENT (mg/L)	39	269.000	1.000	29.872	172.000	23.000	17.000	12.000	5.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 38.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 31, Cape Fear River at State Highway 42 near Brickhaven

Location.--Latitude 35°32'54", longitude 79°01'34", Chatham County, at bridge on State Highway 42, and 1.8 mi south of Brickhaven, USGS downstream order number 0210215985.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	43	0.170	0.010	0.030	0.124	0.040	0.020	0.010	0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	20	0.150	<0.010	0.031*	0.140	0.020	0.020	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	43	1.400	0.100	0.596	1.160	0.700	0.600	0.500	0.140
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	45	1.200	<0.050	0.598*	1.100	0.700	0.570	0.480	<0.100
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	43	0.410	0.020	0.105	0.262	0.130	0.090	0.060	0.022
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	44	0.410	0.020	0.101	0.288	0.120	0.085	0.040	0.020
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	47	1.600	0.340	0.717	1.100	0.870	0.660	0.560	0.414
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	42	1.600	0.180	0.574	1.355	0.672	0.500	0.400	0.260
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	47	1.700	0.400	0.815	1.160	0.900	0.800	0.700	0.540
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	42	1.700	0.200	0.674	1.455	0.800	0.600	0.500	0.300
00600	NITROGEN, TOTAL (mg/L as N)	47	2.600	0.600	1.376	2.020	1.600	1.300	1.200	0.882
00665	PHOSPHORUS, TOTAL (mg/L as P)	47	0.200	0.020	0.112	0.196	0.130	0.110	0.080	0.034
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	45	0.150	0.010	0.060	0.127	0.080	0.060	0.030	0.013
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	43	0.160	0.020	0.068	0.120	0.090	0.070	0.050	0.020
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	45	0.130	<0.010	0.048*	0.110	0.060	0.040	0.030	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 38.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 31, Cape Fear River at State Highway 42 near Brickhaven

Location.--Latitude 35°32'54", longitude 79°01'34", Chatham County, at bridge on State Highway 42, and 1.8 mi south of Brickhaven, USGS downstream order number 0210215985.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	22	3,400.000	140.000	772.727	3,309.999	962.500	470.000	245.000	143.000
01002	ARSENIC, TOTAL (µg/L as As)	22	2.000	<1.000	0.739*	1.000	1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	22	2.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	22	30.000	<1.000	3.118*	10.000	3.000	1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	22	3.000	<1.000	1.060*	2.000	1.000	1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	21	16.000	1.000	5.524	15.600	7.000	4.000	3.000	1.100
01045	IRON, TOTAL (µg/L as Fe)	22	4,700.000	400.000	1,360.909	4,655.000	1,775.000	910.000	512.500	401.500
01051	LEAD, TOTAL (µg/L as Pb)	21	12.000	<1.000	2.585*	7.000	3.000	2.000	1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	22	680.000	80.000	236.364	678.500	292.500	160.000	115.000	81.500
71900	MERCURY, TOTAL (µg/L as Hg)	21	0.300	<0.100	--	0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	22	4.000	<1.000	1.223*	3.000	2.000	1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	21	8.000	1.000	3.143	7.800	4.000	3.000	2.000	1.000
01147	SELENIUM, TOTAL (µg/L as Se)	22	1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	20	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	22	210.000	<10.000	20.693*	30.000	20.000	10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 38.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 31, Cape Fear River at State Highway 42 near Brickhaven

Location.--Latitude 35°32'54", longitude 79°01'34", Chatham County, at bridge on State Highway 42, and 1.8 mi south of Brickhaven, USGS downstream order number 0210215985.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	49	18.000	5.400	8.498	13.000	9.600	8.000	7.400	5.800
39330	ALDRIN, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	14	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	9	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	14	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	14	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	14	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	14	0.002	<0.001	0.001*	0.002	0.001	<0.010	<0.010	<0.001
39530	MALATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	14	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	14	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	14	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	14	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	9	0.900	<0.200	--	0.900	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	9	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	9	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	9	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
04035	SIMAZINE, DISSOLVED (µg/L)	1	0.700	--	--	--	--	--	--	--
04036	PROMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04037	PROMETON, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04038	DEISOPROPYL ATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04040	DEETHYLATRAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
04041	CYANAZINE, DISSOLVED (µg/L)	1	<0.200	--	--	--	--	--	--	--
46342	ALACHLOR, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38401	AMETRYN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
39632	ATRAZINE, DISSOLVED (µg/L)	1	0.880	--	--	--	--	--	--	--
39415	METOLACHLOR, DISSOLVED (µg/L)	1	0.200	--	--	--	--	--	--	--
82630	METRIBUZIN, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--
38535	PROPAZINE, DISSOLVED (µg/L)	1	<0.050	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 39.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 32, Neuse River at Smithfield

Location.--Latitude 35°30'46", longitude 78°21'00", Johnston County, on left bank 10 ft downstream from bridge on U.S. Highway 70 at Smithfield, 2.1 mi upstream of Swift Creek, and 178 mi upstream of mouth, USGS downstream order number 02087570.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	49	6,110.000	203.000	1,529.531	5,525.000	2,375.000	487.000	343.500	270.500
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	49	331.000	75.000	172.408	275.500	219.000	171.000	114.000	87.500
00400	pH, FIELD (STANDARD pH UNITS)	49	7.600	5.800	--	7.450	7.200	6.900	6.700	6.300
00010	WATER TEMPERATURE (°C)	48	29.000	5.000	17.292	28.000	25.375	18.000	10.000	5.950
00080	COLOR (PLATINUM-COBALT UNITS)	49	280.000	7.000	49.612	155.000	55.000	40.000	25.000	11.000
00300	OXYGEN, DISSOLVED (mg/L)	47	12.600	5.400	8.721	12.460	10.500	8.000	6.800	5.640
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	47	144.000	64.000	87.851	103.000	93.000	86.000	81.000	70.400
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	49	40.000	17.000	27.796	37.000	31.500	27.000	24.000	19.000
00915	CALCIUM, DISSOLVED (mg/L as Ca)	49	9.900	4.400	6.910	9.200	7.750	7.000	6.000	4.650
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	49	3.600	1.500	2.541	3.400	2.950	2.500	2.200	1.750
00930	SODIUM, DISSOLVED (mg/L as Na)	49	48.000	4.300	21.414	38.500	30.500	19.000	11.500	7.350
00935	POTASSIUM, DISSOLVED (mg/L as K)	49	6.200	1.800	3.463	5.400	4.200	3.400	2.550	2.200
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	49	48.000	15.000	29.286	43.500	36.000	29.000	22.000	15.500
00945	SULFATE, DISSOLVED (mg/L as SO_4)	49	730.000	7.100	40.339	57.500	34.000	25.000	15.000	9.250
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	49	26.000	4.500	12.673	24.500	17.000	12.000	8.200	4.600
00950	FLUORIDE, DISSOLVED (mg/L as F)	47	1.300	<0.100	0.209*	0.300	0.200	0.200	0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	49	13.000	5.100	9.412	12.000	11.000	9.600	8.300	6.400
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	49	203.000	58.000	112.408	167.500	143.500	105.000	82.500	63.500
38260	DETERGENTS, MBAS (mg/L)	25	0.090	0.040	0.056	0.084	0.065	0.060	0.045	0.040
80154	SUSPENDED SEDIMENT (mg/L)	44	458.000	4.000	70.477	375.250	77.500	38.000	22.250	6.500

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	48	8,320.000	176.000	1,114.271	5,703.506	1,094.750	430.000	289.750	221.500
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	41	319.000	65.000	171.634	298.400	222.500	165.000	112.000	65.100
00400	pH, FIELD (STANDARD pH UNITS)	42	7.700	5.700	--	7.500	7.300	7.100	6.900	6.600
00010	WATER TEMPERATURE (°C)	42	31.000	5.000	15.929	27.850	24.625	17.000	11.000	5.075
00076	TURBIDITY (NTU)	42	95.000	4.000	20.412	88.500	19.500	14.000	9.725	4.490
00300	OXYGEN, DISSOLVED (mg/L)	42	11.400	5.800	8.190	11.285	9.700	8.100	6.700	5.900
00310	BOD 5-DAY AT 20 °C (mg/L)	12	4.000	0.700	1.717	4.000	3.075	1.150	0.825	0.700
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	15	59.000	22.000	31.533	59.000	32.000	31.000	26.000	22.000
00916	CALCIUM, TOTAL (mg/L as Ca)	1	4.700	--	--	--	--	--	--	--
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	1.900	--	--	--	--	--	--	--
00929	SODIUM, TOTAL (mg/L as Na)	1	4.700	--	--	--	--	--	--	--
00431	ALKALINITY, (mg/L AS $CaCO_3$)	41	57.000	3.000	32.244	52.300	42.000	33.000	26.000	6.500
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	41	110.000	2.000	27.122	97.600	32.000	22.000	10.500	4.100
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	41	330.000	93.000	168.756	250.000	200.000	170.000	130.000	96.400

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 39.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 32, Neuse River at Smithfield

Location.--Latitude 35°30'46", longitude 78°21'00", Johnston County, on left bank 10 ft downstream from bridge on U.S. Highway 70 at Smithfield, 2.1 mi upstream of Swift Creek, and 178 mi upstream of mouth, USGS downstream order number 02087570.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS (Continued)

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	97	8,320.000	176.000	1,324.041	5,097.207	1,655.000	436.000	321.500	260.000
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	90	331.000	65.000	172.056	282.350	220.250	165.500	113.500	77.750
00400	pH, FIELD (STANDARD pH UNITS)	91	7.700	5.700	--	7.500	7.200	7.000	6.800	6.400
00010	WATER TEMPERATURE (°C)	90	31.000	5.000	17.122	28.300	25.000	17.000	10.000	5.500
00080	COLOR (PLATINUM-COBALT UNITS)	49	280.000	7.000	49.612	155.200	55.000	40.000	25.000	11.000
00076	TURBIDITY (NTU)	42	95.000	4.000	20.412	88.500	19.500	14.000	9.725	4.490
00300	OXYGEN, DISSOLVED (mg/L)	89	12.600	5.400	8.471	12.200	9.950	8.000	6.800	5.850
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	47	144.000	64.000	87.851	103.000	93.000	86.000	81.000	70.400
00310	BOD 5-DAY AT 20 °C (mg/L)	12	4.000	0.700	1.717	4.000	3.075	1.150	0.825	0.700
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	64	59.000	17.000	28.672	37.750	31.750	28.000	24.000	20.250
00916	CALCIUM, TOTAL (mg/L as Ca)	1	4.700	--	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	49	9.900	4.400	6.910	9.200	7.750	7.000	6.000	4.650
00927	MAGNESIUM, TOTAL (mg/L as Mg)	1	1.900	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	49	3.600	1.500	2.541	3.400	2.950	2.500	2.200	1.750
00929	SODIUM, TOTAL (mg/L as Na)	1	4.700	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	49	48.000	4.300	21.414	38.500	30.500	19.000	11.500	7.350
00935	POTASSIUM, DISSOLVED (mg/L as K)	49	6.200	1.800	3.463	5.400	4.200	3.400	2.550	2.200
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	49	48.000	15.000	29.286	43.500	36.000	29.000	22.000	15.500
00431	ALKALINITY, (mg/L AS $CaCO_3$)	41	57.000	3.000	32.244	52.300	42.000	33.000	26.000	6.500
00945	SULFATE, DISSOLVED (mg/L as SO_4)	49	730.000	7.100	40.339	57.500	34.000	25.000	15.000	9.250
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	49	26.000	4.500	12.673	24.500	17.000	12.000	8.200	4.600
00950	FLUORIDE, DISSOLVED (mg/L as F)	47	1.300	<0.100	0.209*	0.300	0.200	0.200	0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	49	13.000	5.100	9.412	12.000	11.000	9.600	8.300	6.400
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	49	203.000	58.000	112.408	167.500	143.500	105.000	82.500	63.500
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	41	110.000	2.000	27.122	97.600	32.000	22.000	10.500	4.100
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	41	330.000	93.000	168.756	250.000	200.000	170.000	130.000	96.400
38260	DETERGENTS, MBAS (mg/L)	25	0.090	0.040	0.056	0.084	0.065	0.060	0.045	0.040
80154	SUSPENDED SEDIMENT (mg/L)	44	458.000	4.000	70.477	375.250	77.500	38.000	22.250	6.500

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 39.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 32, Neuse River at Smithfield

Location.--Latitude 35°30'46", longitude 78°21'00", Johnston County, on left bank 10 ft downstream from bridge on U.S. Highway 70 at Smithfield, 2.1 mi upstream of Swift Creek, and 178 mi upstream of mouth, USGS downstream order number 02087570.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	44	0.040	<0.010	0.014*	0.030	0.020	0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	21	0.030	<0.010	0.010*	0.020	0.010	0.010	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	44	2.900	0.300	1.286	2.475	1.900	1.300	0.600	0.400
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	45	2.900	0.300	1.300	2.540	1.800	1.300	0.625	0.346
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	44	0.370	0.010	0.060	0.150	0.078	0.040	0.030	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	45	0.340	0.010	0.059	0.137	0.070	0.040	0.030	0.020
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	46	2.000	0.350	0.674	1.620	0.723	0.630	0.507	0.360
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	40	2.000	0.180	0.531	1.091	0.632	0.465	0.360	0.261
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	47	2.100	0.400	0.732	1.620	0.800	0.700	0.600	0.400
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	41	2.100	0.200	0.585	1.180	0.700	0.500	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	46	3.400	1.100	2.030	3.230	2.525	2.050	1.400	1.100
00665	PHOSPHORUS, TOTAL (mg/L as P)	46	0.490	0.030	0.172	0.373	0.202	0.140	0.118	0.073
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	45	0.330	0.020	0.111	0.317	0.145	0.080	0.060	0.020
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	44	0.320	0.010	0.102	0.308	0.127	0.075	0.052	0.020
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	45	0.300	0.010	0.097	0.277	0.130	0.070	0.055	0.020

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	NO_2 + NO_3, TOTAL (mg/L as N)	42	3.000	0.320	1.446	2.885	1.825	1.400	0.852	0.362
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	42	0.170	0.010	0.057	0.158	0.080	0.050	0.030	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	42	0.640	0.170	0.413	0.579	0.480	0.400	0.340	0.223
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	42	0.700	0.200	0.469	0.685	0.500	0.500	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	42	3.500	0.720	1.914	3.470	2.425	1.850	1.275	0.769
00665	PHOSPHORUS, TOTAL (mg/L as P)	42	0.410	0.050	0.178	0.382	0.240	0.155	0.100	0.071
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	36	0.270	<0.010	0.081*	0.270	0.120	0.060	0.020	<0.010

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	44	0.040	<0.010	0.014*	0.030	0.020	0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	21	0.030	<0.010	0.010*	0.020	0.010	0.010	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	86	3.000	0.300	1.364	2.730	1.900	1.300	0.702	0.381
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	45	2.900	0.300	1.300	2.540	1.800	1.300	0.625	0.346
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	86	0.370	0.010	0.058	0.156	0.080	0.045	0.030	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	45	0.340	0.010	0.059	0.137	0.070	0.040	0.030	0.020
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	88	2.000	0.170	0.549	0.866	0.638	0.490	0.382	0.289
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	40	2.000	0.180	0.531	1.091	0.632	0.465	0.360	0.261
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	89	2.100	0.200	0.608	0.950	0.700	0.600	0.400	0.350
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	41	2.100	0.200	0.585	1.180	0.700	0.500	0.400	0.300
00600	NITROGEN, TOTAL (mg/L as N)	88	3.500	0.720	1.975	3.300	2.500	1.950	1.325	0.875
00665	PHOSPHORUS, TOTAL (mg/L as P)	88	0.490	0.030	0.175	0.371	0.225	0.150	0.110	0.074
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	45	0.330	0.020	0.111	0.317	0.145	0.080	0.060	0.020
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	80	0.320	0.010	0.093	0.279	0.120	0.070	0.050	0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	45	0.300	0.010	0.097	0.277	0.130	0.070	0.055	0.020

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 39.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 32, Neuse River at Smithfield

Location.--Latitude 35°30'46", longitude 78°21'00", Johnston County, on left bank 10 ft downstream from bridge on U.S. Highway 70 at Smithfield, 2.1 mi upstream of Swift Creek, and 178 mi upstream of mouth, USGS downstream order number 02087570.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	20	6,800.000	210.000	1,439.000	6,715.001	1,117.500	745.000	405.000	212.000
01002	ARSENIC, TOTAL (µg/L as As)	20	2.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	20	6.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	20	48.000	<1.000	4.681*	8.000	3.000	2.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	20	5.000	<1.000	1.338*	3.000	1.000	1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	19	99.000	<1.000	15.780*	99.000	12.000	8.000	5.000	1.000
01045	IRON, TOTAL (µg/L as Fe)	20	7,200.000	460.000	1,946.500	7,185.000	1,675.000	1,250.000	942.500	462.500
01051	LEAD, TOTAL (µg/L as Pb)	19	42.000	<5.000	9.546*	42.000	13.000	6.000	3.000	1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	20	830.000	40.000	216.000	815.500	255.000	150.000	100.000	41.500
71900	MERCURY, TOTAL (µg/L as Hg)	18	5.300	<0.100	5.300	0.100	<0.100	<0.100	<0.100	
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	20	2.000	<1.000	0.924*	2.000	1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	19	7.000	<1.000	2.502*	7.000	3.000	2.000	1.000	1.000
01147	SELENIUM, TOTAL (µg/L as Se)	20	1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	19	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	20	60.000	<10.000	20.203*	50.000	20.000	20.000	<10.000	<10.000

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	1	110.000	--	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	14	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	14	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	14	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01037	COBALT, TOTAL (µg/L as Co)	1	<50.000	--	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	14	17.000	<10.000	5.800*	17.000	6.000	3.000	3.000	2.000
01045	IRON, TOTAL (µg/L as Fe)	1	430.000	--	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	14	11.000	<10.000	--	11.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	1	64.000	--	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	14	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	14	<50.000	<10.000	--	<50.000	<10.000	<10.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	6	1.000	<1.000	--	1.000	1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	1	<5.000	--	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	14	40.000	<10.000	--	40.000	<10.000	<10.000	<10.000	<10.000

SUMMARY OF SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	21	6,800.000	110.000	1,375.714	6,630.003	1,035.000	740.000	360.000	120.000
01002	ARSENIC, TOTAL (µg/L as As)	34	2.000	<1.000	--	1.000	<10.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	34	6.000	<1.000	--	1.000	<2.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	34	48.000	<1.000	3.812*	8.000	2.000	<25.000	<25.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	21	5.000	<1.000	1.319*	3.000	1.000	1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	33	99.000	<1.000	11.549*	71.000	11.000	6.000	3.000	<10.000
01045	IRON, TOTAL (µg/L as Fe)	21	7,200.000	430.000	1,874.286	7,170.000	1,650.000	1,200.000	915.000	433.000
01051	LEAD, TOTAL (µg/L as Pb)	33	42.000	<5.000	7.820*	32.000	7.000	3.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	21	830.000	40.000	208.762	801.000	250.000	150.000	90.000	42.400
71900	MERCURY, TOTAL (µg/L as Hg)	32	5.300	<0.100	0.194*	0.300	<0.200	<0.200	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	20	2.000	<1.000	0.924*	2.000	1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	33	7.000	<1.000	2.438*	6.000	2.000	1.000	<10.000	<10.000
01147	SELENIUM, TOTAL (µg/L as Se)	26	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	20	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	34	60.000	<10.000	15.788*	50.000	20.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 39.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 32, Neuse River at Smithfield

Location.--Latitude 35°30'46", longitude 78°21'00", Johnston County, on left bank 10 ft downstream from bridge on U.S. Highway 70 at Smithfield, 2.1 mi upstream of Swift Creek, and 178 mi upstream of mouth, USGS downstream order number 02087570.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	49	16.000	4.800	7.759	15.000	8.350	6.900	6.150	5.350
39330	ALDRIN, TOTAL (µg/L)	13	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	13	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	13	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	13	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	13	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	9	0.010	<0.010	--	0.010	0.010	<0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	13	0.001	<0.001	0.001*	0.001	0.001	<0.010	<0.010	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	13	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	13	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	13	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	13	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	13	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	13	<0.010	<0.001	--	<0.010	<0.010	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	13	0.006	<0.001	0.002*	0.006	0.004	0.001	<0.010	<0.001
39530	MALATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	13	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	8	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39755	MIREX, TOTAL (µg/L)	13	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	13	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	13	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	8	0.300	<0.200	0.211*	0.300	0.200	0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	8	<0.300	<0.200	--	<0.300	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	8	0.200	<0.200	--	0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	8	0.800	<0.200	--	0.800	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	8	1.600	<0.200	--	1.600	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	8	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34205	ACENAPHTHENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34200	ACENAPHTHYLENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34220	ANTHRACENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34526	BENZO(A)ANTHRACENE (1,2-BENZAN-THRACENE), TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34247	BENZO(A)PYRENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34230	BENZO(B)FLUORANTHENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34521	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34242	BENZO(K)FLUORANTHENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34292	N-BUTYL BENZYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34452	PARACHLOROMETACRESOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34320	CHRYSENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
39110	DI-N-BUTYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 39.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 32, Neuse River at Smithfield

Location.--Latitude 35°30'46", longitude 78°21'00", Johnston County, on left bank 10 ft downstream from bridge on U.S. Highway 70 at Smithfield, 2.1 mi upstream of Swift Creek, and 178 mi upstream of mouth, USGS downstream order number 02087570.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34596	DI-N-OCTYL PHTHALATE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34336	DIETHYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34341	DIMETHYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34657	4,6-DINITRO-ORTHOCRESOL, TOTAL (µg/ L)	1	<30.000	--	--	--	--	--	--	--
34376	FLUORANTHENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34381	FLUORENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39700	HEXACHLOROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39702	HEXACHLOROBUTADIENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34396	HEXACHLOROETHANE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34403	INDENO(1,2,3-CD)PYRENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34408	ISOPHORONE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34433	N-NITROSODIPHENYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34696	NAPHTHALENE, TOTAL (µg/L)	2	0.200	<5.000	--	--	--	--	--	--
34447	NITROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34438	N-NITROSODIMETHYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39032	PENTACHLOROPHENOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34461	PHENANTHRENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34694	PHENOL (C6H-50H), TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34469	PYRENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34551	1,2,4-TRICHLOROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	8	<5.000	<0.200	--	<5.000	<0.200	<0.200	<0.200	<0.200
34278	BIS(2-CHLOROETHOXY)METHANE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34273	BIS-2-CHLOROETHYL ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34283	BIS(2-CHLOROISOPROPYL)ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34581	2-CHLORONAPHTHALENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34586	2-CHLOROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39100	BIS(2-ETHYLHEXYL) PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34591	2-NITROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34601	2,4-DICHLOROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34606	2,4-DIMETHYLPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34616	2,4-DINITROPHENOL, TOTAL (µg/L)	1	<20.000	--	--	--	--	--	--	--
34611	2,4-DINITROTOLUENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34621	2,4,6-TRICHLOROPHENOL, TOTAL (µg/L)	1	<20.000	--	--	--	--	--	--	--
34626	2,6-DINITROTOLUENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34636	4-BROMOPHENYL ETHER, TOTAL (µg/L))	1	<5.000	--	--	--	--	--	--	--
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (µg/ L))	1	<5.000	--	--	--	--	--	--	--
34646	4-NITROPHENOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	8	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 40.--*Statistical summary of water-quality data, October 1989 through September 1992*

Site 33, Swift Creek near Apex

Location.--Latitude 35°43'07", longitude 78°45'09", Wake County, at bridge on Secondary Road 1152, 2.8 mi downstream from Williams Creek, and 6 mi east of Apex, USGS downstream order number 02087580.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00061	INSTANTANEOUS DISCHARGE (ft^3/s)	12	111.000	0.190	18.632	111.000	19.000	8.150	2.225	0.190
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	42	130.000	68.000	93.381	128.650	102.250	89.500	83.000	72.450
00400	pH, FIELD (STANDARD pH UNITS)	42	7.600	6.000	--	7.600	7.200	7.000	6.750	6.215
00010	WATER TEMPERATURE (°C)	41	26.000	3.000	16.098	26.000	22.750	16.000	8.500	5.100
00080	COLOR (PLATINUM-COBALT UNITS)	41	280.000	4.000	63.683	148.000	77.500	60.000	28.000	6.700
00300	OXYGEN, DISSOLVED (mg/L)	41	13.800	4.200	8.666	13.700	10.800	9.000	5.950	4.400
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	41	151.000	51.000	85.683	146.900	93.500	86.000	68.500	54.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	41	45.000	21.000	30.780	43.000	36.000	29.000	25.500	23.100
00915	CALCIUM, DISSOLVED (mg/L as Ca)	41	12.000	5.700	8.166	11.000	9.400	7.700	6.950	6.110
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	41	3.800	1.600	2.544	3.790	3.100	2.400	2.100	1.710
00930	SODIUM, DISSOLVED (mg/L as Na)	41	9.300	3.200	5.083	7.100	5.700	5.000	4.400	3.210
00935	POTASSIUM, DISSOLVED (mg/L as K)	41	4.300	0.300	2.463	3.490	2.800	2.500	2.100	1.710
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	41	48.000	13.000	30.854	48.000	38.500	28.000	23.000	16.300
00945	SULFATE, DISSOLVED (mg/L as SO_4)	41	12.000	1.400	5.839	9.100	7.000	6.000	4.550	1.820
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	41	7.600	0.300	5.361	7.580	5.950	5.400	4.950	3.110
00950	FLUORIDE, DISSOLVED (mg/L as F)	41	0.300	<0.100	0.118*	0.300	0.200	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	41	16.000	4.600	9.476	15.900	11.000	8.800	7.400	4.820
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	41	94.000	39.000	64.732	91.600	72.000	64.000	55.500	43.500
38260	DETERGENTS, MBAS (mg/L)	14	0.060	0.010	0.038	0.060	0.050	0.035	0.030	0.010
80154	SUSPENDED SEDIMENT (mg/L)	35	427.000	2.000	30.343	175.799	19.000	13.000	7.000	2.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 40.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 33, Swift Creek near Apex

Location.--Latitude 35°43'07", longitude 78°45'09", Wake County, at bridge on Secondary Road 1152, 2.8 mi downstream from Williams Creek, and 6 mi east of Apex, USGS downstream order number 02087580.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	37	0.030	<0.010	0.014*	0.030	0.020	<0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	27	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	37	0.300	<0.050	0.118*	0.240	0.190	0.083	<0.100	<0.050
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	41	0.250	<0.050	0.119*	0.210	0.190	0.100	<0.100	<0.050
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	37	0.100	0.010	0.042	0.082	0.060	0.040	0.030	0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	41	0.120	0.010	0.042	0.080	0.055	0.040	0.030	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	39	1.000	0.120	0.452	0.960	0.570	0.460	0.290	0.160
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	34	0.570	0.170	0.316	0.555	0.373	0.270	0.248	0.178
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	41	1.100	0.200	0.488	0.980	0.600	0.500	0.300	0.200
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	40	0.600	<0.200	0.331*	0.600	0.400	0.300	0.200	<0.200
00600	NITROGEN, TOTAL (mg/L as N)	39	1.100	0.200	0.602	1.100	0.800	0.580	0.400	0.300
00665	PHOSPHORUS, TOTAL (mg/L as P)	41	0.070	0.010	0.040	0.069	0.055	0.040	0.025	0.010
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	41	0.040	<0.010	0.011*	0.030	0.020	0.010	<0.010	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	37	0.040	<0.010	0.016*	0.040	0.020	0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	41	0.020	<0.010	0.008*	0.020	0.010	<0.010	<0.010	<0.010

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<"

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 40.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 33, Swift Creek near Apex

Location.--Latitude 35°43'07", longitude 78°45'09", Wake County, at bridge on Secondary Road 1152, 2.8 mi downstream from Williams Creek, and 6 mi east of Apex, USGS downstream order number 02087580.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	15	2,900.000	30.000	749.333	2,900.000	1,200.000	260.000	50.000	30.000
01002	ARSENIC, TOTAL (µg/L as As)	14	2.000	<1.000	0.885*	2.000	1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	15	3.000	<1.000	--	3.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	15	5.000	<1.000	1.508*	5.000	3.000	1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	15	3.000	<1.000	--	3.000	1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	14	6.000	1.000	2.857	6.000	4.250	2.000	2.000	1.000
01045	IRON, TOTAL (µg/L as Fe)	15	5,200.000	730.000	1,696.667	5,200.000	1,900.000	1,200.000	850.000	730.000
01051	LEAD, TOTAL (µg/L as Pb)	13	4.000	<1.000	1.797*	4.000	2.000	2.000	1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	15	260.000	50.000	121.333	260.000	180.000	100.000	80.000	50.000
71900	MERCURY, TOTAL (µg/L as Hg)	15	0.100	<0.100	--	0.100	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	15	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	13	4.000	<1.000	1.386*	4.000	2.000	1.000	<1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	15	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	15	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	15	20.000	<10.000	--	20.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<"

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 40.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 33, Swift Creek near Apex

Location.--Latitude 35°43'07", longitude 78°45'09", Wake County, at bridge on Secondary Road 1152, 2.8 mi downstream from Williams Creek, and 6 mi east of Apex, USGS downstream order number 02087580.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	40	14.000	3.800	6.115	10.890	6.775	5.600	4.825	3.910
39330	ALDRIN, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	9	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	7	0.090	<0.010	0.029*	0.090	0.030	0.020	0.010	0.010
39380	DIELDRIN, TOTAL (µg/L)	9	0.003	<0.001	--	0.003	<0.010	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	9	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	9	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	9	0.002	<0.001	--	0.002	<0.010	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	9	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	9	0.001	<0.001	--	0.001	0.001	<0.010	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	9	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	9	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	9	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34205	ACENAPHTHENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34200	ACENAPHTHYLENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34220	ANTHRACENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34526	BENZO(A)ANTHRACENE (1,2-BENZATHRACENE), TOTAL (µgL)	1	<10.000	--	--	--	--	--	--	--
34247	BENZO(A)PYRENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34230	BENZO(B)FLUORANTHENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34521	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34242	BENZO(K)FLUORANTHENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34292	N-BUTYL BENZYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34452	PARACHLOROMETACRESOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34320	CHRYSENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
39110	DI-N-BUTYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34596	DI-N-OCTYL PHTHALATE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34336	DIETHYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--

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Table 40.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 33, Swift Creek near Apex

Location.--Latitude 35°43'07", longitude 78°45'09", Wake County, at bridge on Secondary Road 1152, 2.8 mi downstream from Williams Creek, and 6 mi east of Apex, USGS downstream order number 02087580.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34341	DIMETHYL PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34657	4,6-DINITRO-ORTHOCRESOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34376	FLUORANTHENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34381	FLUORENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39700	HEXACHLOROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39702	HEXACHLOROBUTADIENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34396	HEXACHLOROETHANE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34403	INDENO(1,2,3-CD)PYRENE, TOTAL (µg/L)	1	<10.000	--	--	--	--	--	--	--
34408	ISOPHORONE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34433	N-NITROSODIPHENYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34696	NAPHTHALENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34447	NITROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34438	N-NITROSODIMETHYLAMINE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39032	PENTACHLOROPHENOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
34461	PHENANTHRENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34694	PHENOL (C6H-5OH), TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34469	PYRENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34551	1,2,4-TRICHLOROBENZENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34278	BIS(2-CHLOROETHOXY)METHANE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34273	BIS-2-CHLOROETHYL ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34283	BIS(2-CHLOROISOPROPYL)ETHER, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34581	2-CHLORONAPHTHALENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34586	2-CHLOROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
39100	BIS(2-ETHYLHEXYL) PHTHALATE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34591	2-NITROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34601	2,4-DICHLOROPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34606	2,4-DIMETHYLPHENOL, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34616	2,4-DINITROPHENOL, TOTAL (µg/L)	1	<20.000	--	--	--	--	--	--	--
34611	2,4-DINITROTOLUENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34621	2,4,6-TRICHLOROPHENOL, TOTAL (µg/L)	1	<20.000	--	--	--	--	--	--	--
34626	2,6-DINITROTOLUENE, TOTAL (µg/L)	1	<5.000	--	--	--	--	--	--	--
34636	4-BROMOPHENYL ETHER, TOTAL (µg/L))	1	<5.000	--	--	--	--	--	--	--
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (µg/ L))	1	<5.000	--	--	--	--	--	--	--
34646	4-NITROPHENOL, TOTAL (µg/L)	1	<30.000	--	--	--	--	--	--	--
38932	CHLORPYRIFOS, TOTAL (µg/L)	5	0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	7	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 41.--*Statistical summary of water-quality data, October 1989 through September 1992*

Site 34, Lake Benson at Dam near Garner

Location.--Latitude 35°39'44", longitude 78°36'46", Wake County, at dam 1.5 mi below Reedy Branch, and 3.3 mi south of Garner, USGS downstream order number 02087701.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	16	79.000	59.000	68.313	79.000	73.500	69.000	62.750	59.000
00400	pH, FIELD (STANDARD pH UNITS)	16	8.600	6.500	--	8.600	7.525	7.150	6.625	6.500
00010	WATER TEMPERATURE (°C)	16	33.000	10.000	23.813	33.000	28.000	26.000	19.000	10.000
00080	COLOR (PLATINUM-COBALT UNITS)	16	110.000	2.000	30.688	110.000	34.500	23.500	14.000	2.000
00300	OXYGEN, DISSOLVED (mg/L)	14	11.200	6.300	9.136	11.200	9.950	9.000	8.400	6.300
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	14	139.000	73.000	109.286	139.000	125.750	112.500	91.750	73.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	16	24.000	18.000	20.813	24.000	22.750	20.000	19.000	18.000
00915	CALCIUM, DISSOLVED (mg/L as Ca)	16	5.900	4.300	5.131	5.900	5.575	5.000	4.825	4.300
00925	MAGNESIUM, DISSOLVED (mg/L as Mg)	16	2.200	1.700	1.912	2.200	2.100	1.850	1.800	1.700
00930	SODIUM, DISSOLVED (mg/L as Na)	16	5.000	3.600	4.350	5.000	4.675	4.400	4.000	3.600
00935	POTASSIUM, DISSOLVED (mg/L as K)	16	11.000	0.700	2.212	11.000	2.450	1.500	1.100	0.700
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	16	28.000	14.000	22.063	28.000	24.000	22.000	21.000	14.000
00945	SULFATE, DISSOLVED (mg/L as SO_4)	16	6.500	2.900	4.106	6.500	4.850	3.800	3.425	2.900
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	15	5.800	3.300	4.220	5.800	4.700	3.900	3.700	3.300
00950	FLUORIDE, DISSOLVED (mg/L as F)	16	0.300	<0.100	0.101*	0.300	0.100	0.100	<0.100	<0.100
00955	SILICA, DISSOLVED (mg/L as SiO_2)	16	11.000	3.800	7.619	11.000	8.400	7.800	6.700	3.800
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	16	76.000	34.000	49.438	76.000	59.250	46.500	41.000	34.000
38260	DETERGENTS, MBAS (mg/L)	7	0.070	0.020	0.040	0.070	0.050	0.040	0.020	0.020

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 41.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 34, Lake Benson at Dam near Garner

Location.--Latitude 35°39'44", longitude 78°36'46", Wake County, at dam 1.5 mi below Reedy Branch, and 3.3 mi south of Gamer, USGS downstream order number 02087701.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00615	NITROGEN, NITRITE, TOTAL (mg/L as N)	14	0.010	<0.010	--	0.010	<0.010	<0.010	<0.010	<0.010
00613	NITROGEN, NITRITE, DISSOLVED (mg/L as N)	10	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
00630	NO_2 + NO_3, TOTAL (mg/L as N)	14	0.200	<0.050	--	0.200	0.053	<0.100	<0.050	<0.050
00631	NO_2 + NO_3, DISSOLVED (mg/L as N)	16	0.200	<0.050	--	0.200	<0.100	<0.100	<0.050	<0.050
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	14	0.200	<0.010	0.043*	0.200	0.050	0.030	0.010	<0.010
00608	NITROGEN AMMONIA, DISSOLVED (mg/L as N)	16	0.200	<0.010	0.048*	0.200	0.050	0.020	0.020	0.010
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	16	3.800	0.330	0.844	3.800	0.797	0.575	0.428	0.330
00607	NITROGEN ORGANIC, DISSOLVED (mg/L as N)	14	0.570	0.180	0.361	0.570	0.465	0.355	0.280	0.180
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	16	3.800	0.400	0.888	3.800	0.950	0.600	0.500	0.400
00623	NITROGEN AMMONIA + ORGANIC, DISSOLVED (mg/L as N)	16	0.700	<0.200	0.418*	0.700	0.500	0.400	0.300	0.200
00600	NITROGEN, TOTAL (mg/L as N)	16	3.800	0.400	0.922	3.800	0.950	0.600	0.550	0.400
00665	PHOSPHORUS, TOTAL (mg/L as P)	16	0.080	0.010	0.033	0.080	0.047	0.030	0.012	0.010
00666	PHOSPHORUS, DISSOLVED (mg/L as P)	16	0.020	<0.010	0.008*	0.020	0.010	<0.010	<0.010	<0.010
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	14	0.040	<0.010	--	0.040	<0.010	<0.010	<0.010	<0.010
00671	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	16	0.020	<0.010	--	0.020	<0.010	<0.010	<0.010	<0.010
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	16	12.000	<0.100	5.076*	12.000	6.500	4.300	2.500	1.400
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	16	1.300	<0.100	--	1.300	<0.800	<0.500	<0.100	<0.100

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 41.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 34, Lake Benson at Dam near Garner

Location.--Latitude 35°39'44", longitude 78°36'46", Wake County, at dam 1.5 mi below Reedy Branch, and 3.3 mi south of Garner, USGS downstream order number 02087701.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	16	1,600.000	10.000	263.125	1,600.000	185.000	90.000	62.500	10.000
01002	ARSENIC, TOTAL (µg/L as As)	16	1.000	<1.000	1.000*	1.000	1.000	<1.000	<1.000	<1.000
01027	CADMIUM, TOTAL (µg/L as Cd)	16	3.000	<1.000	--	3.000	<1.000	<1.000	<1.000	<1.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	16	3.000	<1.000	1.012*	3.000	1.000	1.000	<1.000	<1.000
01037	COBALT, TOTAL (µg/L as Co)	16	2.000	<1.000	0.773*	2.000	1.000	<1.000	<1.000	<1.000
01042	COPPER, TOTAL (µg/L as Cu)	15	6.000	1.000	2.867	6.000	3.000	3.000	2.000	1.000
01045	IRON, TOTAL (µg/L as Fe)	16	2,100.000	150.000	749.375	2,100.000	1,300.000	445.000	312.500	150.000
01051	LEAD, TOTAL (µg/L as Pb)	15	3.000	<1.000	1.647*	3.000	3.000	1.000	1.000	<1.000
01055	MANGANESE, TOTAL (µg/L as Mn)	16	1,400.000	30.000	287.500	1,400.000	295.000	150.000	62.500	30.000
71900	MERCURY, TOTAL (µg/L as Hg)	15	0.600	<0.100	--	0.600	<0.100	<0.100	<0.100	<0.100
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	16	1.000	<1.000	--	1.000	<1.000	<1.000	<1.000	<1.000
01067	NICKEL, TOTAL (µg/L as Ni)	15	3.000	<1.000	1.548*	3.000	2.000	2.000	<1.000	<1.000
01147	SELENIUM, TOTAL (µg/L as Se)	16	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01077	SILVER, TOTAL (µg/L as Ag)	16	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
01092	ZINC, TOTAL (µg/L as Zn)	16	20.000	<10.000	--	20.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 41.--*Statistical summary of water-quality data, October 1989 through September 1992*--Continued

Site 34, Lake Benson at Dam near Garner

Location.--Latitude 35°39'44", longitude 78°36'46", Wake County, at dam 1.5 mi below Reedy Branch, and 3.3 mi south of Garner, USGS downstream order number 02087701.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00680	CARBON ORGANIC, TOTAL (mg/L)	16	18.000	5.600	7.900	18.000	8.700	7.100	6.150	5.600
39330	ALDRIN, TOTAL (µg/L)	7	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39350	CHLORDANE, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39360	DDD, TOTAL (µg/L)	7	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39365	DDE, TOTAL (µg/L)	7	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39370	DDT, TOTAL (µg/L)	7	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39570	DIAZINON, TOTAL (µg/L)	6	0.030	<0.010	--	0.030	0.020	0.010	<0.010	<0.010
39380	DIELDRIN, TOTAL (µg/L)	7	0.001	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39388	ENDOSULFAN, TOTAL (µg/L)	7	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39390	ENDRIN, TOTAL (µg/L)	7	0.002	<0.001	--	0.002	<0.010	<0.001	<0.001	<0.001
39398	ETHION, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39516	PCB, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39250	PCN, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39420	HEPTACHLOR EPOXIDE, TOTAL (µg/L)	7	0.001	<0.001	--	0.001	<0.010	<0.001	<0.001	<0.001
39410	HEPTACHLOR, TOTAL (µg/L)	7	<0.010	<0.001	--	<0.010	<0.001	<0.001	<0.001	<0.001
39340	LINDANE, TOTAL (µg/L)	7	0.001	<0.001	--	0.001	0.001	<0.001	<0.001	<0.001
39530	MALATHION, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39480	METHOXYCHLOR, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39600	METHYL PARATHION, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39790	METHYL TRITHION, TOTAL (µg/L)	5	<0.010	<0.010	--	--	--	--	--	--
39755	MIREX, TOTAL (µg/L)	7	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39540	PARATHION, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39034	PERTHANE, TOTAL (µg/L)	7	<0.100	<0.100	--	<0.100	<0.100	<0.100	<0.100	<0.100
39400	TOXAPHENE, TOTAL (µg/L)	7	<1.000	<1.000	--	<1.000	<1.000	<1.000	<1.000	<1.000
39786	TRITHION (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
34030	BENZENE, TOTAL (µg/L)	6	0.600	<0.200	--	0.600	<0.200	<0.200	<0.200	<0.200
32104	BROMOFORM, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32102	CARBON TETRACHLORIDE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34301	CHLOROBENZENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32105	CHLORODIBROMOTHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34311	CHLOROETHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32106	CHLOROFORM, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34418	METHYL CHLORIDE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34704	CIS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32101	DICHLOROBROMOMETHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34668	DICHLORODIFLUOROMETHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34371	ETHYLBENZENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34413	METHYL BROMIDE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34423	METHYLENE CHLORIDE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
77128	STYRENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34475	TETRACHLOROETHYLENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34010	TOLUENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34699	TRANS 1,3-DICHLOROPROPENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39180	TRICHLOROETHYLENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34488	TRICHLOROFLUOROMETHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
39175	VINYL CHLORIDE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
81551	XYLENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34501	1,1-DICHLOROETHYLENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34496	1,1-DICHLOROETHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34506	1,1,1-TRICHLOROETHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34511	1,1,2-TRICHLOROETHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34536	O-CHLORO-BENZENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
32103	1,2-DICHLOROETHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34541	1,2-DICHLOROPROPANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34561	1,3-DICHLOROPROPENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34546	1,2-TRANSDICHLOROETHENE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34566	1,3-DICHLOROBENZENE WATER, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
34571	1,4-DICHLOROBENZENE WATER, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
38932	CHLORPYRIFOS, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--
39011	DISYSTON, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39023	PHORATE, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
39040	DEF, TOTAL (µg/L)	6	<0.010	<0.010	--	<0.010	<0.010	<0.010	<0.010	<0.010
77651	1,2-DIBROMOETHANE, TOTAL (µg/L)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
82614	FONOFOS (DYFONATE) WATER, TOTAL (µg/L)	4	<0.010	<0.010	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 42.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 35, Haw River at State Highway 150 near Williamsburg

Location.--Latitude 36°16'02", longitude 79°36'15", Rockingham County, at State Highway 150, and 1.2 mi south of Williamsburg, USGS downstream order number 02093450.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	1	120.000	--	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	1	6.300	--	--	--	--	--	--	--
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	1	0.000	--	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	1	0.000	--	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	1	2.000	--	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	1	30.000	--	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	1	82.000	--	--	--	--	--	--	--

Table 42.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 35, Haw River at State Highway 150 near Williamsburg

Location.--Latitude 36°16'02", longitude 79°36'15", Rockingham County, at State Highway 150, and 1.2 mi south of Williamsburg, USGS downstream order number 02093450.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39351	CHLORDANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39363	DDD, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39368	DDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	3300.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 42.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 35, Haw River at State Highway 150 near Williamsburg

Location.--Latitude 36°16'02", longitude 79°36'15", Rockingham County, at State Highway 150, and 1.2 mi south of Williamsburg, USGS downstream order number 02093450.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 43.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 36, Reedy Fork Creek at State Highway 61 near Osceola

Location.--Latitude 36°10'44", longitude 79°34'36", Guilford County County, at bridge on State Highway 61, 1.7 mi downstream from Buffalo Creek, and 3.5 mi northwest of Osceola, USGS downstream order number 0209560800.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	1	320.000	--	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	1	6.600	--	--	--	--	--	--	--
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	1	0.000	--	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	1	0.000	--	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	1	10.000	--	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	1	60.000	--	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	1	88.000	--	--	--	--	--	--	--

Table 43.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 36, Reedy Fork Creek at State Highway 61 near Osceola

Location.--Latitude 36°10'44", longitude 79°34'36", Guilford County County, at bridge on State Highway 61, 1.7 mi downstream from Buffalo Creek, and 3.5 mi northwest of Osceola, USGS downstream order number 0209560800.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39351	CHLORDANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39363	DDD, BTM (µg/kg)	1	2.100	--	--	--	--	--	--	--
39368	DDE, BTM (µg/kg)	1	0.100	--	--	--	--	--	--	--
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39571	DIAZINON, BTM (µg/kg)	1	0.100	--	--	--	--	--	--	--
39383	DIELDRIN, BTM (µg/kg)	1	0.400	--	--	--	--	--	--	--
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39519	PCB, BTM (µg/kg)	1	2.000	--	--	--	--	--	--	--
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 43.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 36, Reedy Fork Creek at State Highway 61 near Osceola

Location.--Latitude 36°10'44", longitude 79°34'36", Guilford County County, at bridge on State Highway 61, 1.7 mi downstream from Buffalo Creek, and 3.5 mi northwest of Osceola, USGS downstream order number 0209560800.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 44.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 37, Haw River near Graham

Location.--Latitude 36°02'56", longitude 79°21'46", Alamance County, at bridge on State Highway 54, 0.3 mi upstream of Back Creek, and 2.3 mi southeast of Graham, USGS downstream order number 0209651800.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	1	249.000	--	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	1	6.900	--	--	--	--	--	--	--
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	1	0.000	--	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	1	0.000	--	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	1	1.000	--	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	1	14.000	--	--	--	--	--	--	--
80169	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	1	74.000	--	--	--	--	--	--	--

Table 44.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 37, Haw River near Graham

Location.--Latitude 36°02'56", longitude 79°21'46", Alamance County, at bridge on State Highway 54, 0.3 mi upstream of Back Creek, and 2.3 mi southeast of Graham, USGS downstream order number 0209651800.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39351	CHLORDANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39363	DDD, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39368	DDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39373	DDT, BTM (µg/kg)	1	2.100	--	--	--	--	--	--	--
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39519	PCB, BTM (µg/kg)	1	4.000	--	--	--	--	--	--	--
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-5OH), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<"

Table 44.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 37, Haw River near Graham

Location.--Latitude 36°02'56", longitude 79°21'46", Alamance County, at bridge on State Highway 54, 0.3 mi upstream of Back Creek, and 2.3 mi southeast of Graham, USGS downstream order number 0209651800.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 45.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 38, Haw River near Terrells

Location.--Latitude 35°53'43", longitude 79°15'31", Alamance County, at bridge on Secondary Road 1005, 0.7 mi upstream of Cane Creek, and 5.8 mi north of Terrells. USGS downstream order number 02096879.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	1	150.000	--	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	1	7.200	--	--	--	--	--	--	--
80164	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.062 mm	1	8.000	--	--	--	--	--	--	--
80165	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.125 mm	1	27.000	--	--	--	--	--	--	--
80166	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.250 mm	1	73.000	--	--	--	--	--	--	--
80167	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 0.500 mm	1	100.000	--	--	--	--	--	--	--
80168	BED MATERIAL, SIEVE DIAMETER PERCENT FINER THAN 1.00 mm	1	100.000	--	--	--	--	--	--	--

Table 45.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 38, Haw River near Terrells

Location.--Latitude 35°53'43", longitude 79°15'31", Alamance County, at bridge on Secondary Road 1005, 0.7 mi upstream of Cane Creek, and 5.8 mi north of Terrells, USGS downstream order number 02096879.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39333	ALDRIN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39351	CHLORDANE, BTM (µg/kg)	1	5.000	--	--	--	--	--	--	--
39363	DDD, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39368	DDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39519	PCB, BTM (µg/kg)	1	10.000	--	--	--	--	--	--	--
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39413	HEPTACHLOR, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-5OH), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 45.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 38, Haw River near Terrells

Location.--Latitude 35°53'43", longitude 79°15'31", Alamance County, at bridge on Secondary Road 1005, 0.7 mi upstream of Cane Creek, and 5.8 mi north of Terrells, USGS downstream order number 02096879.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 46.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 39, University Lake below Price Creek near Carrboro

Location.--Latitude 35°53'03", longitude 79°05'47", Orange County, 0.3 mi below Price Creek, and 2.1 mi south of Carrboro, USGS downstream order number 0209749210.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY PERSONNEL OF THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39351	CHLORDANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39363	DDD, BTM (µg/kg)	1	2.300	--	--	--	--	--	--	--
39368	DDE, BTM (µg/kg)	1	2.600	--	--	--	--	--	--	--
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 47.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 40, University Lake below Phils Creek

Location.--Latitude 35°53'52", longitude 79°06'07", Orange County, 0.3 mi below Phils Creek, and 1.7 mi southwest of Carrboro, USGS downstream order number 0209748410.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 47.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 40, University Lake below Phils Creek

Location.--Latitude 35°53'52", longitude 79°06'07", Orange County, 0.3 mi below Phils Creek, and 1.7 mi southwest of Carrboro, USGS downstream order number 0209748410.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39351	CHLORDANE, BTM (µg/kg)	1	2.000	--	--	--	--	--	--	--
39363	DDD, BTM (µg/kg)	1	0.700	--	--	--	--	--	--	--
39368	DDE, BTM (µg/kg)	1	0.500	--	--	--	--	--	--	--
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39787	TRITHION, BTM (µg/kg)	1	<0.200	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	330.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	1300.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 48.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 41, University Lake below Secondary Road 1005 near Carrboro

Location.--Latitude 35°54'08", longitude 79°05'50", Orange County, 0.05 mi below Secondary Road 1005, and 1.7 mi southwest of Carrboro, USGS downstream order number 0209746515.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39351	CHLORDANE, BTM (µg/kg)	1	3.000	--	--	--	--	--	--	--
39363	DDD, BTM (µg/kg)	1	0.500	--	--	--	--	--	--	--
39368	DDE, BTM (µg/kg)	1	0.500	--	--	--	--	--	--	--
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39787	TRITHION, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<"

Table 48.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 41, University Lake below Secondary Road 1005 near Carrboro

Location.--Latitude 35°54'08", longitude 79°05'50", Orange County, 0.05 mi below Secondary Road 1005, and 1.7 mi southwest of Carrboro, USGS downstream order number 0209746515.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 49.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 42, Lake Michie at Secondary Road 1616 at Bahama

Location.--Latitude 36°10'24", longitude 78°51'44", Durham County, at bridge on Secondary Road 1616, and 0.6 mi northeast of Bahama, USGS downstream order number 0208590000.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39351	CHLORDANE, BTM (µg/kg)	1	2.000	--	--	--	--	--	--	--
39363	DDD, BTM (µg/kg)	1	1.900	--	--	--	--	--	--	--
39368	DDE, BTM (µg/kg)	1	3.200	--	--	--	--	--	--	--
39373	DDT, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39571	DIAZINON, BTM (µg/kg)	1	0.100	--	--	--	--	--	--	--
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 49.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 42, Lake Michie at Secondary Road 1616 at Bahama

Location.--Latitude 36°10'24", longitude 78°51'44", Durham County, at bridge on Secondary Road 1616, and 0.6 mi northeast of Bahama, USGS downstream order number 0208590000.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 50.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 43, Lake Michie below Holly Grove Campground near Bahama

Location.--Latitude 36°09'34", longitude 78°51'07", Durham County, 0.5 mi below Holly Grove Campground, and 1.3 mi southeast of Bahama, USGS downstream order number 0208610150.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39351	CHLORDANE, BTM (µg/kg)	1	2.000	--	--	--	--	--	--	--
39363	DDD, BTM (µg/kg)	1	4.500	--	--	--	--	--	--	--
39368	DDE, BTM (µg/kg)	1	9.000	--	--	--	--	--	--	--
39373	DDT, BTM (µg/kg)	1	1.100	--	--	--	--	--	--	--
39571	DIAZINON, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 50.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 43, Lake Michie below Holly Grove Campground near Bahama

Location.--Latitude 36°09'34", longitude 78°51'07", Durham County, 0.5 mi below Holly Grove Campground, and 1.3 mi southeast of Bahama, USGS downstream order number 0208610150.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 51.--*Statistical summary of water-quality data, October 1988 through September 1992*

Site 44, Lake Michie 0.6 mile above Dam near Bahama

Location.--Latitude 36°09'31", longitude 78°49'39", Durham County, 0.6 mi above power plant, and 2.6 mi southeast of Bahama, USGS downstream order number 0208629180.

ORGANIC COMPOUNDS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39333	ALDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39351	CHLORDANE, BTM (µg/kg)	1	4.000	--	--	--	--	--	--	--
39363	DDD, BTM (µg/kg)	1	5.300	--	--	--	--	--	--	--
39368	DDE, BTM (µg/kg)	1	12.000	--	--	--	--	--	--	--
39373	DDT, BTM (µg/kg)	1	1.200	--	--	--	--	--	--	--
39571	DIAZINON, BTM (µg/kg)	1	0.100	--	--	--	--	--	--	--
39383	DIELDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39389	ENDOSULFAN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39393	ENDRIN, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39399	ETHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39519	PCB, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39251	PCN, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39423	HEPTACHLOR EPOXIDE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39413	HEPTACHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39343	LINDANE, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39531	MALATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39481	METHOXYCHLOR, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39601	METHYL PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39791	METHYL TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39758	MIREX, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
39541	PARATHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
81886	PERTHANE, BTM (µg/kg)	1	<1.000	--	--	--	--	--	--	--
39403	TOXAPHENE, BTM (µg/kg)	1	<10.000	--	--	--	--	--	--	--
39787	TRITHION, BTM (µg/kg)	1	<0.100	--	--	--	--	--	--	--
34208	ACENAPHTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34203	ACENAPHTHYLENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34223	ANTHRACENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34529	BENZO(A)ANTHRACENE (1,2-BENZANTHRACENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34233	BENZO(B)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34524	BENZO(G,H,I)PERYLENE (1,12-BENZOPERYLENE), BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34245	BENZO(K)FLUORANTHENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34455	PARACHLOROMETACRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34323	CHRYSENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34599	DI-N-OCTYL PHTHALATE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34559	1,2,5,6-DIBENZANTHRACENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34339	DIETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34344	DIMETHYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34379	FLUORANTHENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34384	FLUORENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39701	HEXACHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39705	HEXACHLOROBUTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34399	HEXACHLOROETHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34406	INDENO (1,2,3-CD) PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34411	ISOPHORONE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34445	NAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34450	NITROBENZENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
39061	PENTACHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34464	PHENANTHRENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34695	PHENOL (C6H-50H), BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34472	PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34554	1,2,4-TRICHLOROBENZENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34569	1,3-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34574	1,4-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34594	2-NITROPHENOL, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34614	2,4-DINITROTOLUENE, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34629	2,6-DINITROTOLUENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34644	4-CHLOROPHENYL PHENYL ETHER, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34649	4-NITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34286	BIS(2-CHLOROISOPROPYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34281	BIS(2-CHLOROETHOXY) METHANE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34276	BIS(2-CHLOROETHYL) ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
39102	BIS(2-ETHYLHEXYL) PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34250	BENZO-A-PYRENE, BTM (µg/kg)	1	<400.000	--	--	--	--	--	--	--
34639	4-BROMOPHENYL PHENYL ETHER, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34295	N-BUTYLBENZYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34589	2-CHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34584	2-CHLORONAPHTHALENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34604	2,4-DICHLOROPHENOL, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34609	2,4-DP, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34660	4,6-DINITRO-ORTHOCRESOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34619	2,4-DINITROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 51.--*Statistical summary of water-quality data, October 1988 through September 1992*--Continued

Site 44, Lake Michie 0.6 mile above Dam near Bahama

Location.--Latitude 36°09'31", longitude 78°49'39", Durham County, 0.6 mi above power plant, and 2.6 mi southeast of Bahama, USGS downstream order number 0208629180.

ORGANIC COMPOUNDS (Continued)

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
39112	DI-N-BUTYL PHTHALATE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34389	HEXACHLOROCYCLOPENTADIENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34441	N-NITROSODIMETHYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34436	N-NITROSODIPHENYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34431	N-NITROSODI-N-PROPYLAMINE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--
34624	2,4,6-TRICHLOROPHENOL, BTM (µg/kg)	1	<600.000	--	--	--	--	--	--	--
34539	1,2-DICHLOROBENZENE, BTM (µg/kg)	1	<200.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 52.--*Statistical summary of water-quality data, August through September 1992*

Site 45, Jordan Lake at Buoy 12 at Farrington

Location.--Latitude 35°48'05", longitude 79°00'40", Chatham County, 0.2 mi above Secondary Road 1008, and 0.2 mi east of Farrington, USGS downstream order number 0209768310.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY

PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	1	141.000	--	--	--	--	--	--	--
00400	pH, FIELD (STANDARD pH UNITS)	1	8.600	--	--	--	--	--	--	--
00010	WATER TEMPERATURE (°C)	1	26.000	--	--	--	--	--	--	--
00080	COLOR (PLATINUM-COBALT UNITS)	1	25.000	--	--	--	--	--	--	--
00300	OXYGEN, DISSOLVED (mg/L)	1	8.500	--	--	--	--	--	--	--
00301	OXYGEN DISSOLVED (PERCENT OF SATURATION)	1	106.000	--	--	--	--	--	--	--
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	1	30.000	--	--	--	--	--	--	--
00915	CALCIUM, DISSOLVED (mg/L as Ca)	1	7.600	--	--	--	--	--	--	--
00925	MAGNESIUM, DISSOLVED (mg/L as Mg))	1	2.600	--	--	--	--	--	--	--
00930	SODIUM, DISSOLVED (mg/L as Na)	1	14.000	--	--	--	--	--	--	--
00935	POTASSIUM, DISSOLVED (mg/L as K)	1	3.200	--	--	--	--	--	--	--
90410	ALKALINITY, LAB (mg/L as $CaCO_3$)	1	37.000	--	--	--	--	--	--	--
00945	SULFATE, DISSOLVED (mg/L as SO_4)	1	13.000	--	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	1	13.000	--	--	--	--	--	--	--
00950	FLUORIDE, DISSOLVED (mg/L as F)	1	0.200	--	--	--	--	--	--	--
00955	SILICA, DISSOLVED (mg/L as SiO_2)	1	3.700	--	--	--	--	--	--	--
70300	DISSOLVED SOLIDS, RESIDUE AT 180 °C (mg/L)	1	74.000	--	--	--	--	--	--	--

Table 52.--*Statistical summary of water-quality data, August through September 1992*--Continued

Site 45, Jordan Lake at Buoy 12 at Farrington

Location.--Latitude 35°48'05", longitude 79°00'40", Chatham County, 0.2 mi above Secondary Road 1008, and 0.2 mi east of Farrington, USGS downstream order number 0209768310.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAMETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
70953	CHLOROPHYLL A, PHYTOPLANKTON (µg/L)	1	11.000	--	--	--	--	--	--	--
70954	CHLOROPHYLL B, PHYTOPLANKTON (µg/L)	1	<0.100	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 52.--*Statistical summary of water-quality data, August through September 1992*--Continued

Site 45, Jordan Lake at Buoy 12 at Farrington

Location.--Latitude 35°48'05", longitude 79°00'40", Chatham County, 0.2 mi above Secondary Road 1008, and 0.2 mi east of Farrington, USGS downstream order number 0209768310.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE U.S. GEOLOGICAL SURVEY										
PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	1	60.000	--	--	--	--	--	--	--
01002	ARSENIC, TOTAL (µg/L as As)	1	1.000	--	--	--	--	--	--	--
01027	CADMIUM, TOTAL (µg/L as Cd)	1	<1.000	--	--	--	--	--	--	--
01034	CHROMIUM, TOTAL (µg/L as Cr)	1	<1.000	--	--	--	--	--	--	--
01037	COBALT, TOTAL (µg/L as Co)	1	<1.000	--	--	--	--	--	--	--
01042	COPPER, TOTAL (µg/L as Cu)	1	2.000	--	--	--	--	--	--	--
01045	IRON, TOTAL (µg/L as Fe)	1	130.000	--	--	--	--	--	--	--
01051	LEAD, TOTAL (µg/L as Pb)	1	1.000	--	--	--	--	--	--	--
01055	MANGANESE, TOTAL (µg/L as Mn)	1	90.000	--	--	--	--	--	--	--
71900	MERCURY, TOTAL (µg/L as Hg)	1	<0.100	--	--	--	--	--	--	--
01062	MOLYBDENUM, TOTAL (µg/L as Mo)	1	3.000	--	--	--	--	--	--	--
01067	NICKEL, TOTAL (µg/L as Ni)	1	<1.000	--	--	--	--	--	--	--
01147	SELENIUM, TOTAL (µg/L as Se)	1	<1.000	--	--	--	--	--	--	--
01077	SILVER, TOTAL (µg/L as Ag)	1	<1.000	--	--	--	--	--	--	--
01092	ZINC, TOTAL (µg/L as Zn)	1	50.000	--	--	--	--	--	--	--

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

Table 53.--*Statistical summary of water-quality data, March through September 1992*

Site 46, Deep River at Carbonton

Location.--Latitude 35°31'10", longitude 79°20'51", Chatham County, at Carbonton Dam, 0.5 mi east of Carbonton, and 2.25 mi above Smiths Creek, USGS downstream order number 0210140200.

PHYSICAL PROPERTIES AND CONCENTRATIONS OF MAJOR DISSOLVED CONSTITUENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00095	SPECIFIC CONDUCTANCE (µS/cm at 25 °C)	7	219.000	68.000	121.286	219.000	182.000	99.000	68.000	68.000
00400	pH, FIELD (STANDARD pH UNITS)	7	9.100	6.700	--	9.100	7.200	6.900	6.800	6.700
00010	WATER TEMPERATURE (°C)	7	29.000	10.500	22.214	29.000	26.000	23.000	18.000	10.500
00076	TURBIDITY (NTU)	7	70.000	4.300	20.686	70.000	26.000	12.000	9.500	4.300
00300	OXYGEN, DISSOLVED (mg/L)	7	14.000	5.600	7.786	14.000	9.200	6.700	5.700	5.600
00301	OXYGEN, DISSOLVED (PERCENT OF SATURATION)	7	171.000	64.000	88.143	171.000	86.000	76.000	69.000	64.000
00900	HARDNESS, TOTAL (mg/L as $CaCO_3$)	7	36.000	23.000	30.286	36.000	36.000	31.000	25.000	23.000
00927	MAGNESIUM, TOTAL (mg/L as Na)	1	0.900	--	--	--	--	--	--	--
00431	ALKALINITY (mg/L as $CaCO_3$)	3	25.000	2.000	--	--	--	--	--	--
00940	CHLORIDE, DISSOLVED (mg/L as Cl)	7	23.000	4.000	11.143	23.000	17.000	10.000	6.000	4.000
00530	RESIDUE ON EVAPORATION AT 105 °C, SUSPENDED (mg/L)	7	90.000	3.000	20.286	90.000	16.000	9.000	7.000	3.000
00500	RESIDUE ON EVAPORATION AT 105 °C, TOTAL (mg/L)	7	200.000	110.000	130.000	200.000	140.000	120.000	110.000	110.000

Table 53.--*Statistical summary of water-quality data, March through September 1992*--Continued

Site 46, Deep River at Carbonton

Location.--Latitude 35°31'10", longitude 79°20'51", Chatham County, at Carbonton Dam, 0.5 mi east of Carbonton, and 2.25 mi above Smiths Creek, USGS downstream order number 0210140200.

MAJOR NUTRIENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
00630	$NO_2 + NO_3$, TOTAL (mg/L as N)	7	0.940	0.010	0.594	0.940	0.860	0.700	0.400	0.010
00610	NITROGEN AMMONIA, TOTAL (mg/L as N)	7	0.200	0.040	0.100	0.200	0.120	0.110	0.050	0.040
00605	NITROGEN ORGANIC, TOTAL (mg/L as N)	7	0.700	0.260	0.486	0.700	0.550	0.490	0.390	0.260
00625	NITROGEN AMMONIA + ORGANIC, TOTAL (mg/L as N)	7	0.900	0.300	0.586	0.900	0.600	0.600	0.500	0.300
00600	NITROGEN, TOTAL (mg/L as N)	7	1.500	0.610	1.187	1.500	1.400	1.300	1.000	0.610
00665	PHOSPHORUS, TOTAL (mg/L as P)	7	0.280	0.130	0.171	0.280	0.190	0.170	0.130	0.130
70507	PHOSPHORUS ORTHO, TOTAL (mg/L as P)	4	0.060	0.040	--	--	--	--	--	--

Table 53.--*Statistical summary of water-quality data, March through September 1992*--Continued

Site 46, Deep River at Carbonton

Location.--Latitude 35°31'10", longitude 79°20'51", Chatham County, at Carbonton Dam, 0.5 mi east of Carbonton, and 2.25 mi above Smiths Creek, USGS downstream order number 0210140200.

MINOR ELEMENTS

SAMPLES COLLECTED AND ANALYZED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

PARAM-ETER CODE	PROPERTY OR CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	50% (median)	25%	5%
01105	ALUMINUM, TOTAL (µg/L as Al)	7	5,000.000	<50.000	1,176.332*	5,000.000	1,400.000	370.000	110.000	110.000
01002	ARSENIC, TOTAL (µg/L as As)	7	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01027	CADMIUM, TOTAL (µg/L as Cd)	7	<2.000	<2.000	--	<2.000	<2.000	<2.000	<2.000	<2.000
01034	CHROMIUM, TOTAL (µg/L as Cr)	7	<25.000	<25.000	--	<25.000	<25.000	<25.000	<25.000	<25.000
01042	COPPER, TOTAL (µg/L as Cu)	7	11.000	3.000	6.286	11.000	10.000	5.000	4.000	3.000
01045	IRON, TOTAL (µg/L as Fe)	7	7,000.000	90.000	1,718.572	7,000.000	2,000.000	830.000	120.000	90.000
01051	LEAD, TOTAL (µg/L as Pb)	7	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01055	MANGANESE, TOTAL (µg/L as Mn)	7	130.000	10.000	65.857	130.000	90.000	69.000	16.000	10.000
71900	MERCURY, TOTAL (µg/L as Hg)	6	<0.200	<0.200	--	<0.200	<0.200	<0.200	<0.200	<0.200
01067	NICKEL, TOTAL (µg/L as Ni)	7	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000
01092	ZINC, TOTAL (µg/L as Zn)	7	<10.000	<10.000	--	<10.000	<10.000	<10.000	<10.000	<10.000

NOTE: Multiple detection limits during the period of record may result in different values flagged with a "<."

* Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

GLOSSARY

GLOSSARY

Atomic absorption (AA)--A technique of chemical analysis used mainly for determination of metallic elements. A water sample is aspirated into a laminar-flow flame which dries, desolvates, and vaporizes the analyte(s). Light from a hollow cathode lamp of the element of interest is simultaneously shone through the flame, and its absorption by the analyte's vapor is measured. A comparison is made to absorption by standards treated in the same manner, and concentration is calculated.

Automated (auto.)--Use of mechanical or computer modules to replace manual steps in chemical analysis procedures.

Automated-segmented flow colorimetry (ASF)--A type of colorimetric analysis in which sample handling, reagent additions, mixing, and the colorimetric measurement itself all take place in small diameter tubes. The flow of fluids in the tubes is maintained by a peristaltic pump, and the reacting samples' volume is segmented by periodic introduction of air bubbles.

Base/neutral extraction--A procedure in which organic compounds are extracted from water samples with methylene chloride under basic conditions for later analysis by gas chromatography using a mass spectrometer as a detector.

Chelation extraction (chel.)--A preparation and preconcentration method used prior to determination of a metal by atomic absorption (AA). A chemical complex of the metal to be determined is formed in the sample by reacting it with a chelating agent. The complex then is extracted into a smaller volume of organic solvent, which then is determined by AA.

Cold vapor mercury (CVM)--A variation of atomic absorption in which the vapor of mercury is produced by chemical reduction and introduced into the photoabsorption area by a room-temperature carrier gas.

Colorimetry--A technique of chemical analysis in which a sample of water is mixed with a reagent known to form a colored complex or reaction product with the analyte of interest. The light absorbed by the sample in a broad band near the wavelength of interest is measured and compared to standards, from which a concentration is calculated. Compared to spectrophotometry, detection limits are usually lower, but interferences are more pronounced.

Direct current plasma (DCP)--A technique for chemical analysis of the metallic elements in which a plasma of argon gas is generated by a direct current discharge. A sample is aspirated into the plasma, and a characteristic atomic emission is observed. The emission spectrum is compared to standards treated in the same manner, and concentrations are calculated.

Dissolved (DIS)--Pertains to the constituents in a representative water sample that pass through a 0.45-mm membrane filter or a 0.7-mm glass fiber filter for organic analysis. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of dissolved constituents are made on subsamples of the filtrate. In many cases, the words "dissolved" and "filtered" are used interchangeably.

Electrometric (elec.)--Measurement of a physical or chemical property by the flow of electricity (for example, specific conductance).

Electrometric titration (ET)--Determination of the equivalence point of a titration electrochemically.

Gas chromatography (GC)--A method of chemical analysis used for organic compounds. The sample, or an extract of it, is injected into a heated port through which a carrier gas flows. The volatilized sample is swept into a long heated tube coated with a material (the stationary phase), which has varied affinities for the compounds of interest. These compounds are retarded in their passage by characteristic times. The exiting carrier gas then is analyzed by detectors sensitive to various physical properties (electron capture--ECD, flame ionization--FID, flame photometry--FPD, the presence of nitrogen or phosphorus--NPD), and comparisons are made to responses generated by standard materials.

Gas chromatography/mass spectrometry (GC/MS)--A combination chemical analysis technique in which a mass spectrometer is used as a detector for a GC.

Graphite furnace atomic absorption (GFAA)--A variation on atomic absorption (AA) in which a sample is injected into an electrically heated graphite tube placed in the area of photon absorption. Desolvation and vaporization occur separately under controlled conditions, and many interferences can be differentially vaporized. GFAA usually results in lower detection limits than AA.

Gravimetric analysis (GV)--A method of chemical analysis in which the mass of a constituent is measured on a calibrated analytical balance.

High-performance liquid chromatography (HPLC)--A technique of chemical analysis usually determining organic compounds of too low a volatility or too high a thermal instability to use GC. The mobile phase is a mixture of solvents, sometimes dynamically varying throughout the analysis; the stationary phase resembles that of GC in having varying chemical affinities for the analytes; and detection is accomplished by a variety of techniques, including ultraviolet light absorption and fluorescence.

Hydride generation--A chemical technique that forms gaseous hydrides of an element prior to its determination. By forming a gaseous compound, the constituent can be removed from an aqueous matrix which might otherwise interfere with its determination.

Inductively coupled plasma/optical emission spectrometry (ICP)--A method of chemical analysis for the metallic elements in which an 8,000 to 10,000 °C plasma of argon gas is electronically maintained by an induction coil. A sample is aspirated into the plasma, and characteristic atomic emissions are observed. The emission spectrum is compared to a standard treated in the same manner, and concentrations are calculated. In the National Water-Quality Laboratory, up to 20 elements can be determined simultaneously.

Ion-exchange chromatography (IC)--A technique for chemical analysis of inorganic ions. With reference to GC, the mobile phase is aqueous, the stationary phase is a special ion exchange resin of very low ionic capacity, and the detection system is usually conductance.

Mass spectrometry (MS)--A technique of chemical analysis usually determining organic compounds. A sample or its extract is volatilized in a vacuum, and ions are produced. The analyte's ions usually break into smaller ions, and each mass is detected electronically. By the pattern of ions detected, the original (parent) compound's structure can be deduced. Alternately, the ions may come from the plasma of an ICP, and the analytically useful ones are atomic ions, which are determined without structural interpretation.

Methylene blue active substances (MBAS)--A method of determining detergent-like compounds using colorimetry to detect their reaction product with methylene blue.

Minimum reporting level (MRL)--The smallest measured concentration of a constituent that may be reliably reported using a given analytical method.

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Parameter code--A 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Recoverable bottom material (BTM)--The amount of a given constituent that is in solution after a bottom-material sample has been extracted or digested by a method that results in dissolution of readily soluble substances. For inorganic determinations, digestions are performed in the original sample container to ensure digestion of material absorbed on the container walls. Complete dissolution of all bottom material is not commonly achieved by these treatments, and there is reason to believe that the determination represents less than the total amount (less than 95 percent) of the constituent sought in the sample. To ensure comparability of analytical data, equivalent digestion procedures (identical reagent strengths and volumes, identical digestion or extraction times, and identical temperatures) need to be used by all laboratories performing such analyses.

Residue on evaporation (ROE)--A gravimetric measure of volatile and nonvolatile substances in a water sample after evaporation and drying at 105 °C and weighing the remaining substances. ROE also may be performed at other temperatures.

Spectrophotometry--A technique of chemical analysis in which a sample of water is mixed with a reagent known to form a colored complex or reaction product with the parameter of interest. The light absorbed by the sample at a specific wavelength is measured and compared to standards. Compared to colorimetry, this technique is less prone to interferences from other reaction products or from colored constituents in the sample.

Suspended, recoverable--Pertains to the constituents extracted from the suspended sediment that is retained on a filter. Complete extraction generally is not achieved, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the suspended phase of the sample. To achieve comparability of analytical data, laboratories performing such analyses would have to use equivalent extraction procedures, because different extraction procedures are likely to produce different analytical results. Determination of "suspended, recoverable" constituents is made either by analyzing portions of the material collected on the filter or, more commonly, by computing the difference between (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total--Pertains to the constituents of the suspended sediment that are retained on a filter. This term is used only when the analytical procedure ensures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as of the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by computing the difference between (1) dissolved and (2) total concentrations of the constituent.

Titrimetry--A technique of chemical analysis in which an accurately measured volume of solution of known concentration reacts with an exact quantity of the substance being determined.

Total--Pertains to the constituents in a representative water-suspended-sediment sample. This term is used only when the analytical procedure ensures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. Knowledge of the expected form of the constituent in the sample, as well as of the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" indicates both that the sample consists of a water-suspended-sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total in bottom material--Pertains to constituents in a representative sample of bottom material. This term is used only when the analytical procedure ensures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as of the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Volatile on ignition (VOI)--A gravimetric measure of the matter leaving a sample between the temperatures of 105 and 600 °C. Oxidation as well as true evaporation may be involved.

Volatile organic compounds (VOC)--A compound having high vapor pressure and low water solubility. VOC are typically industrial solvents, constituents in petroleum fuel products, or by-products generated by chlorination in water treatment.