HYDROLOGIC MONITORING IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, MISSISSIPPI-ALABAMA, FISCAL YEAR 1990

By Fred Morris III

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CONVERSION FACTORS AND VERTICAL DATUM

<u>Multiply</u>	<u>By</u>	<u>To obtain</u>
inch (in.)	25.40	millimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
square mile (mi ²)	2.590	square kilometer
acre-foot (acre-ft)	1,233	cubic meter
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second
gallon per minute (gal/min)	0.06308	liter per second
micromho per centimeter at 25 °Celsius (umho/cm at 25 °C)	1.000	microsiemens per centimeter at 25 °Celsius

To convert degrees Celsius (°C) to Fahrenheit (°F), use the following:

$$^{\circ}\text{F} = \frac{9}{5}^{\circ}\text{C} + 32$$

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."

HYDROLOGIC MONITORING IN THE AREA OF THE TENNESSEE-TOMBIGBEE WATERWAY, MISSISSIPPI- ALABAMA, FISCAL YEAR 1990

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ABSTRACT

This report, the seventeenth and final in a series of annual reports, presents hydrologic data collected in the area of the Tennessee-Tombigbee Waterway during the fiscal year ending September 30, 1990. Included in this report are data on ground-water levels and quality, and surface-water stage, discharge, and quality. These data were obtained at the request of the U.S. Army Corps of Engineers, Mobile District, as part of a comprehensive program to monitor the hydrologic effects of construction and operation of the Waterway.

HYDROLOGIC MONITORING

Surface-water sites and observation wells in the original hydrologic monitoring network, used to define hydrologic conditions in the area of the Tennessee-Tombigbee Waterway prior to construction, are described by Brahana and others (1974) in the U.S. Army Corps of Engineers (COE) report, "First Supplemental Environmental Report, Continuing Environmental Studies, Tennessee-Tombigbee Waterway, Alabama and Mississippi." The present hydrologic monitoring network includes:

- Major aquifers that may have been stressed by the Waterway construction and operation;
- Surface-water sites near locks and dams where the effects of construction may have been greatest, or at sites of inflow or outflow;
- Areas of known or suspected hydrologic problems;
- Selected sites on and near Pickwick Lake and Demopolis Lake.

The purpose of the present hydrologic monitoring network is to document changes in the hydrologic environment that may occur during operation of the Waterway. The locations of all the hydrologic monitoring sites in the vicinity of the Waterway at which data have been collected since the beginning of the project are shown in figures 1 through 10, except for a few sites which are not shown because of the limited coverage of the maps (furnished by the U.S. Army Corps of Engineers, Mobile District).

Ground Water

Network

The present ground-water network consists of 134 wells in the regional aquifers and the shallower alluvial and terrace aquifers. The relation between shallow water-bearing units and regional aquifers is described by Brahana and others (1974). The descriptions of wells in the network are tabulated in Appendix A.

**TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM**

INDEX MAP

PREPARED FOR
**MOBILE DISTRICT, CORPS OF ENGINEERS
MOBILE, ALABAMA**

BY
**U.S. GEOLOGICAL SURVEY
JACKSON, MISSISSIPPI**

FIGURE 1

TENNESSEE-TOMBIGBEE WATERWAY
HYDROLOGIC MONITORING PROGRAM

HYDROLOGIC MONITORING SITES
IN THE VICINITY OF
ABERDEEN LOCK AND DAM

PREPARED FOR
MOBILE DISTRICT, CORPS OF ENGINEERS
MOBILE, ALABAMA

U.S. GEOLOGICAL SURVEY
JACKSON, MISSISSIPPI

MODIFIED FROM MAP
PREPARED BY
CORPS OF ENGINEERS

FIGURE 7

Levels

Under natural conditions, water levels in wells fluctuate seasonally and reflect recharge to and discharge from aquifers. Water-level fluctuations ranging from less than 1 foot to more than 10 feet per year have been observed in the aquifers in the study area. Water-level fluctuations generally were larger in the alluvial and terrace aquifers than in the regional aquifers.

During Fiscal Year 1990 (FY90), water levels in all 134 observation wells in the network were scheduled to be measured during the first quarter by the U.S. Geological Survey (USGS). However, one well (GW112) was destroyed and four (GW94, GW97, GW-111, and 6DP164) were dry or could not be measured because of obstructions in the wells. Hydrographs showing water-level variations in the wells for the period of USGS record are presented in Appendix A.

Quality

Water-quality data were collected at five wells selected by the COE. Results of the analyses are given in Appendix A.

Surface Water

Network

The surface-water network, which is designed to monitor water quality, currently consists of 15 sites in the area of the Tennessee-Tombigbee Waterway. Descriptions of these sites are tabulated in Appendix B.

Stage and Discharge

Surface-water stage and discharge data were collected at numerous sites (including most sites at which water-quality data were collected) in the area of the Tennessee-Tombigbee Waterway. The collection of stage and discharge data at these sites was funded by cooperative programs with various State and Federal agencies. Data collected at these sites are available either in the Jackson, Miss., or Tuscaloosa, Ala., office of the USGS.

Quality

Water-quality data were collected by the USGS at 15 surface-water sites in the network during the 1990 reporting period (Appendix B).

Data for site 02433000, Bull Mountain Creek near Smithville, Miss., and site 02441000, Tibbee Creek near Tibbee, Miss. may not represent water-quality conditions upstream of the sampling sites. Normal pool elevation of 245.00 feet above sea level for Pool B creates a stage of about 10.2 feet at the Bull Mountain Creek site and a normal pool elevation of 163.00 feet above sea level for Columbus Lake creates a stage of about 8.8 feet at the Tibbee Creek site, resulting in variable backwater conditions. Measurements of stream discharge were not obtained during backwater conditions.

Data for suspended-sediment concentration, particle-size distribution of suspended sediment, and particle-size distribution of stream bed material were collected at site 02436500, Town Creek near Nettleton, Miss.; site 02437500, Tombigbee River at Aberdeen, Miss.; and site 02448000, Noxubee River at Macon, Miss. Data for particle-size distribution of stream bed material was collected at site 332929088273300, TTW Aliceville Lake above Columbus Bend; site 02441498, Tombigbee River Columbus Bend SR 11B at Columbus, Miss.; and site 332751088261000, TTW Aliceville Lake Columbus Cut. Data for suspended-sediment concentration was collected at the following sites:

02430500	Tombigbee River near Marietta, Miss.
02430680	Twentymile Creek near Guntown, Miss.
02430690	Twentymile Creek near Mantachie, Miss.
02431000	Tombigbee River near Fulton, Miss.
02431410	Mantachie Creek below Dorsey, Miss.
02433500	Tombigbee River at Bigbee, Miss.
02437000	Tombigbee River near Amory, Miss.
02439400	Buttahatchee River near Aberdeen, Miss.
02441400	Tombigbee River near Columbus, Miss.
02443500	Luxapallila Creek near Columbus, Miss.
02444157	Tombigbee River at St Hwy 86 near Pickensville, Ala.
02444500	Tombigbee River near Cochrane, Ala.
02469525	Tombigbee River near Nanafalia, Ala.

Miscellaneous samples were collected periodically at two sites on the lower Tombigbee River: 02449000 Tombigbee River at Gainesville, Ala. (monthly), and 02469762 Tombigbee River below Coffeerville Lock and Dam, Ala. (quarterly); specific conductance and water temperature were measured daily at site 02469762, Tombigbee River below Coffeerville Lock and Dam, Ala.

The results of these USGS measurements and analyses are presented in Appendix B. Collection of these data was funded by cooperative agreements with various State and Federal agencies.

QUALITY ASSURANCE

Ground-Water Levels

The collection, analysis, and computation of ground-water level records are conducted in accordance with techniques and procedures established by the USGS and are within the guidelines recommended in the "National Handbook of Recommended Methods for Water-Data Acquisition" (Office of Water Data Coordination, 1977).

Surface-Water Stage and Discharge

The collection, analysis, and computation of surface-water stage and discharge records are conducted in accordance with procedures described in a series entitled "Techniques of Water-Resources Investigations of the U.S. Geological Survey" (TWRI). Field activities are presented in three chapters entitled "General Procedure for Gaging Streams" (Carter and Davidian, 1968); "Stage Measurements at Gaging Stations" (Buchanan and Somers, 1968); and "Discharge Measurements at Gaging Stations" (Buchanan and Somers, 1969); and more recently in Water-Supply Paper 2175, "Measurement and Computation of Streamflow: Volume 1, Measurement of Stage and Discharge" (Rantz and others, 1982). Daily discharge is computed in conformance with procedures described in Water-Supply Paper 2175, "Measurement and Computation of Streamflow: Volume 2, Computation of Discharge" (Rantz and others, 1982). All these procedures are within the guidelines recommended in the "National Handbook of Recommended Methods for Water-Data Acquisition" (Office of Water Data Coordination, 1977).

Water Quality

Procedures used by the USGS in the collection and analysis of samples of water and bottom materials are in conformance with the methods of laboratory analysis and sample preservation and handling described in TWRI Chapter A1, Book 5, "Methods for Determination of Inorganic Substances in Water and Fluvial Sediments" (Fishman and Friedman, 1989).

Water samples collected as a part of this investigations were analyzed in one of the National Water-Quality Laboratories of the Water Resources Division, USGS. The National Water Quality Laboratories have an effective quality control program that includes the use of duplicate samples and standard reference water samples. TWRI "Quality Assurance Practices for the Chemical and Biological Analysis of Water and Fluvial Sediments" (Friedman and Erdmann, 1982) describes quality control techniques, quality assurance practices, and statistical techniques used by the National Water-Quality Laboratories.

The methods used in the collection and analyses of bacteriological samples are given in TWRI "Methods for Collection and Analysis of Aquatic Biological and Microbiological Samples" (Britton and Greeson, 1989). All bacteriological analyses were performed in the field within a few hours after the samples were collected.

The methods used in the collection and analyses of suspended-sediment samples are given in TWRI "Field Methods for Measurement of Fluvial Sediment" (Guy and Norman, 1970) and "Laboratory Theory and Methods for Sediment Analysis" (Guy, 1969).

Procedures used for water-quality field data collection are in accordance with techniques established by the USGS and are within the guidelines recommended in the "National Handbook of Recommended Methods for Water-Data Acquisition" (Office of Water Data Coordination, 1977).

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APPENDIXES

EXPLANATION OF CODES AND ABBREVIATIONS CONTAINED IN DATA TABLES
IN THE APPENDIXES

PRINCIPAL AQUIFER

<u>Geologic unit code</u>	<u>Aquifer name and age</u>
110ALVM	Quaternary alluvium, Quaternary
110TRCS	Undifferentiated terrace deposits, Quaternary
211TBGB	Tombigbee Sand Member of Eutaw Formation, Upper Cretaceous
211EUTW	Eutaw Formation, Upper Cretaceous
211EUTWR	Eutaw Formation (Restricted), Upper Cretaceous
211MCSN	McShan Formation, Upper Cretaceous
211GORD	Gordo Formation, Upper Cretaceous

HYDROLOGIC UNIT

An eight-digit hydrologic unit code refers to a specific drainage basin as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps (Seaber and others, 1987).

WATER-QUALITY REMARKS

<u>Remark Code</u>	<u>Remark</u>
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)

WATER-QUALITY SAMPLE SOURCE AND CONDITION

Numerical codes have been assigned to describe the source of the sample and the conditions under which it was collected. A numerical code will not be given in a water-quality table except to describe unusual conditions. The codes that may be given in this report are as follows:

<u>Sample source</u>	<u>Sampling condition</u>
1 Well Head	8 Pumping
26 Pump	

APPENDIX A
GROUND-WATER DATA

APPENDIX A

GROUND-WATER DATA

DESCRIPTIONS OF WELLS

DESCRIPTIONS OF GROUND-WATER WELLS

LOCAL NUMBER	OWNER	PRINCIPAL AQUIFER	LAND NET LOCATION	DATE COMPLETED	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	CASING DIAM- ETER (INCHES)	DISCHARGE (GALLONS PER MINUTE)
GROUND-WATER NETWORK								
ITAWAMBA COUNTY								
A023	USCE GW118	211MCSN	SENE36T07SR08E	07/08/1975	325.70	23	1.50	--
A024	USCE GW119	110ALVM	NESES35T07SR08E	07/10/1975	295	38	1.50	--
A025	USCE GW120	110ALVM	SESES34T07SR08E	07/14/1975	297.20	21	1.50	--
B005	USCE GW117	110ALVM	SWSWS29T07SR09E	07/16/1975	359.20	21	1.50	--
B008	USCE P601B	211GORD	SWSWS21T07SR09E	05/16/1978	440	187	1.50	--
B009	USCE P602B	211GORD	NWNES28T07SR09E	06/23/1978	450	200	1.50	--
D039	USCE CF87	211EUTW	NWSES25T08SR08E	10/01/1975	271.10	66	1.50	--
D040	USCE GW110	110ALVM	NENES12T09SR08E	07/02/1975	282.70	23	1.50	--
D041	USCE GW112A	110ALVM	NENWS25T08SR08E	06/19/1975	275	28	1.50	--
D042	USCE GW115	110ALVM	SESES10T08SR08E	07/15/1975	299.20	29	1.50	--
D043	USCE GW116	211EUTW	SESWS06T08SR09E	07/08/1975	333.50	30	1.50	--
D044	USCE GW116A	110ALVM	SWSES01T08SR08E	06/17/1980	285	25	1.50	--
D045	USCE P500B	211GORD	SWSES25T08SR08E	08/28/1978	290	124	1.50	--
D046	USCE P501B	211GORD	SESES24T08SR08E	05/01/1978	308.50	152	1.50	--
E005	USCE 65A	211GORD	NESES18T08SR09E	05/18/1972	325	130	4	7.0
E009	USCE GW113	110ALVM	SWNES17T08SR09E	07/07/1975	329.50	26	1.50	--
E010	USCE GW114	110ALVM	NESES18T08SR09E	07/03/1975	311.70	12	1.50	--
E011	USCE P503B	211GORD	NWNES30T08SR09E	05/15/1978	420	221	1.50	--
G065	USCE 67A	211GORD	SWSES27T09SR08E	08/12/1975	270	179	4	--
G066	USCE 67B	211EUTW	SWSES27T09SR08E	08/13/1975	270	71	4	--
G067	USCE GW106B	211GORD	SWSES25T09SR08E	04/19/1978	284	175	6	--
G068	USCE GW106A	110ALVM	SWSES25T09SR08E	04/19/1978	290	10	2	--
G070	USCE GW104C	110ALVM	NWSWS26T09SR08E	01/01/1980	260	24	2	--
G072	USCE C38	110ALVM	SWNWS25T09SR08E	04/12/1973	263.20	33	1.50	--
G074	USCE GW104A	211GORD	NESWS36T09SR08E	04/20/1978	290	88	1.50	--
G075	USCE GW104B	211GORD	NESWS36T09SR08E	04/20/1978	290	138	1.50	--
G076	USCE GW105	110ALVM	NESES34T09SR08E	07/11/1975	254.60	29	1.50	--
G077	USCE GW107	110ALVM	SWSES27T09SR08E	07/02/1975	273.30	31	1.50	--
G078	USCE GW108	211EUTW	NESWS13T09SR08E	07/02/1975	284.50	14	1.50	--
G079	USCE GW108B	211GORD	NESWS13T09SR08E	04/27/1978	284.50	150	1.50	--
G080	USCE GW109	110ALVM	NWSWS15T09SR08E	07/03/1975	278.20	24	1.50	--
G081	USCE GW109B	211GORD	NWSWS15T09SR08E	05/05/1978	278.20	198	1.50	--
G082	USCE GW111	110ALVM	SESWS02T09SR08E	07/23/1975	270.90	35	1.50	--
G083	USCE GW112	110ALVM	NWSWS03T09SR08E	09/01/1975	292.90	24	1.50	--
G084	USCE GW104	110ALVM	SWNWS36T09SR08E	07/01/1975	240	26	2	--
K039	USCE 71A	211GORD	NENWS24T10SR08E	06/20/1972	273	170	4	7.0
K041	USCE GW100	110ALVM	NENES24T10SR08E	06/24/1975	269.20	21	1.50	--
K042	USCE BF179-75	211GORD	NENES12T10SR08E	01/14/1976	250	46	2	--
L014	USCE 74A	211GORD	SWSWS17T10SR09E	06/22/1972	270	150	4	200
L016	USCE 75A	211GORD	SWSES17T10SR09E	06/22/1972	300	144	4	195
L017	USCE 72A	110ALVM	NWSES18T10SR09E	06/11/1972	249	21	4	7.0
L021	USCE BF170-75	211EUTW	NESES19T10SR09E	08/20/1975	247.50	67	1.50	--
L022	USCE BF173-75	211GORD	NESES18T10SR09E	07/15/1975	252.20	51	1.50	--
L023	USCE GW99	110ALVM	SWSES17T10SR09E	06/26/1975	282.80	30	1.50	--
L024	USCE GW100A	110ALVM	NWNWS18T10SR09E	07/08/1980	255	32	1.50	--
L025	USCE GW101	110ALVM	SESWS06T10SR09E	06/26/1975	304.80	21	1.50	--
L026	USCE GW102	110ALVM	SESES01T10SR08E	06/22/1975	277.10	21	1.50	--
N028	USCE 81A	211GORD	NESWS26T11SR08E	07/13/1972	246	180	4	8.0
N029	USCE GW95A	110ALVM	SESES23T11SR08E	06/16/1975	242.40	35	1.50	--
O010	USCE GW94	110ALVM	SESES20T11SR09E	06/18/1975	278	23	1.50	--
O011	USCE GW95	110ALVM	SWSWS17T11SR09E	06/19/1975	325.40	29	1.50	--
O012	USCE GW96	110ALVM	NWSES18T11SR09E	06/20/1975	262.90	23	1.50	--
O013	USCE GW96A	110ALVM	SWNWS20T11SR09E	06/22/1975	238.60	24	1.50	--
O014	USCE GW97	110ALVM	SESES14T10SR09E	06/25/1975	393.90	60	1.50	--
O015	USCE GW98	110ALVM	SWSWS31T10SR09E	06/23/1975	267.20	23	1.50	--
MONROE COUNTY								
B068	USCE APF58	211EUTW	NENWS34T12SR19W	01/15/1976	210	60	2	--
C051	USCE 84A	211GORD	NWNWS36T11SR08E	06/29/1972	234	170	4	30
C052	USCE 84B	211GORD	NWNWS36T11SR08E	07/10/1972	234	110	4	10
C053	USCE 84C	110ALVM	NWNWS36T11SR08E	07/10/1972	234	27	4	10
C054	USCE 85A	110ALVM	SWNWS36T11SR08E	07/11/1972	235	21	4	18
C057	USCE 89A	211GORD	SWNES01T12SR08E	06/30/1972	245	166	4	20
C058	USCE 89B	211MCSN	SWNES01T12SR08E	07/06/1972	245	45	4	2.0
C061	USCE 91A	211MCSN	SWSWS17T12SR08E	07/--/1972	218	88	4	--
C062	USCE 92A	211GORD	NWSWS20T12SR08E	07/--/1972	216	200	4	--
C068	USCE 92B	110ALVM	NWSWS20T12SR08E	08/30/1972	216	19	4	7.0
C069	USCE 91B	110ALVM	SWSWS17T12SR08E	08/--/1972	218	20	4	4.0
C070	USCE 96B	110TRCS	SWSES20T12SR18W	08/--/1972	257	16	24	--
C080	USCE TTM6A	211TBGB	NENES33T13SR19W	05/14/1975	210	65	4	--
C081	USCE TTM6B	110ALVM	NENES33T13SR19W	05/16/1975	210	38	6	--
C085	USCE A1A	110ALVM	SWSWS20T12SR08E	06/17/1982	215	5	1.50	--

DESCRIPTIONS OF GROUND-WATER WELLS--Continued

LOCAL NUMBER	OWNER	PRINCIPAL AQUIFER	LAND NET LOCATION	DATE COMPLETED	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	CASING DIAM- ETER (INCHES)	DISCHARGE (GALLONS PER MINUTE)
GROUND-WATER NETWORK--Continued								
MONROE COUNTY--Continued								
C086	USCE A1	110ALVM	SWSWS20T12SR08E	06/17/1982	215	24	1.50	--
C087	USCE A2	110ALVM	NWNWS29T12SR08E	06/18/1982	215	29	1.50	--
C088	USCE A2A	110ALVM	NWNWS29T12SR08E	06/18/1982	215	5	1.50	--
C089	USCE A3	110ALVM	NWNWS29T12SR08E	06/21/1982	215	25	1.50	--
C090	USCE A3A	110ALVM	NWNWS29T12SR08E	07/01/1982	215	5	1.00	--
C092	USCE GW80	110ALVM	SWNES35T12SR19W	05/28/1975	236.40	33	1.50	--
C093	USCE GW81	110ALVM	NESES36T12SR19W	05/29/1975	235.70	25	1.50	--
C094	USCE GW83	110ALVM	SESES30T12SR08E	06/02/1975	213.20	33	1.50	--
C095	USCE GW85	110ALVM	SWSES20T12SR18W	06/10/1975	257.60	26	1.50	--
C096	USCE GW86	110ALVM	NWNES19T12SR18W	06/09/1975	247.10	24	1.50	--
C097	USCE GW86A	110ALVM	NESWS21T12SR08E	06/23/1980	210	31	1.50	--
C098	USCE GW87	110ALVM	SENWS16T12SR18W	06/18/1975	258	30	1.50	--
C099	USCE GW88	110ALVM	SWSWS15T12SR08E	06/05/1975	244.20	24	1.50	--
C100	USCE GW89	110ALVM	SESWO9T12SR08E	06/04/1975	225.20	30	1.50	--
C101	USCE GW90	110ALVM	NENWS13T12SR08E	06/13/1975	270	26	1.50	--
C102	USCE GW91	110ALVM	SENE11T12SR08E	06/12/1975	261.30	23	1.50	--
C105	USCE GW92B	211EUTW	NWSWS01T12SR08E	04/14/1975	257.30	122	1.50	--
C106	USCE GW92C	211EUTW	NWSWS01T12SR08E	04/14/1975	257.40	100	1.50	--
C107	USCE LA2L	211GORD	SWNWS24T12SR19W	05/01/1975	220	147	1.50	--
C108	USCE LA2U	211EUTW	SWNWS24T12SR19W	05/02/1975	220	67	1.50	--
C109	USCE LA4L	211GORD	NESES36T12SR19W	05/03/1975	235	190	1.50	--
C110	USCE LA4U	211EUTW	NESES36T12SR19W	05/04/1975	235	122	1.50	--
C111	USCE LA5L	211GORD	SWSES30T12SR08E	05/05/1975	210	205	1.50	--
C112	USCE LA5U	211EUTW	SWSES30T12SR08E	05/06/1975	210	57	1.50	--
C113	USCE AF63	211EUTW	SWSES03T12SR08E	01/20/1976	230	54	2	--
D032	USCE GW92	110ALVM	NESWS06T12SR09E	06/11/1975	266.70	20	1.50	--
D033	USCE GW93A	211GORD	SWNWS06T12SR09E	05/15/1975	259.20	178	1.50	--
D034	USCE GW93B	211EUTW	SWNWS06T12SR09E	05/15/1975	259.40	102	1.50	--
D035	USCE GW93C	110ALVM	SWNWS06T12SR09E	05/15/1975	259.40	20	1.50	--
D036	USCE GW94A	110ALVM	NWNWS06T12SR09E	06/26/1975	255	27	1.50	--
G052	USCE APF55	211EUTW	NESWS03T13SR19W	08/05/1975	205.70	69	1.50	--
G053	USCE APF57	211EUTW	SESW34T12SR19W	07/22/1975	207.30	50	1.50	--
G059	USCE GW78	110ALVM	NENWS03T13SR07E	05/20/1975	205.30	36	1.50	--
L095	USCE P1	211EUTW	NENWS35T14SR19W	10/05/1982	190	38	1.50	--
L096	USCE P2	211EUTW	NENWS35T14SR19W	10/01/1982	190	42	1.50	--
PRENTISS COUNTY								
M016	USCE 53A	211GORD	NWSES10T07SR09E	05/--/1972	332	35	4	3.0
M019	USCE 52A	211GORD	NESES09T07SR09E	05/--/1972	324	40	4	20
M020	USCE 51A	211GORD	SENWS09T07SR09E	05/--/1972	356	64	4	6.0
M028	USCE GW123A	110TRCS	NWNWS16T07SR09E	01/01/1980	316	23	2	--
M030	USCE GW122	110ALVM	SWSES07T07SR09E	02/21/1975	330	23	2	--
M031	USCE GW123	110ALVM	SESW15T07SR09E	07/15/1975	354	22	2	--
M032	USCE GW124	110ALVM	SENWS09T07SR09E	07/18/1975	350	39	2	--
TISHMINGO COUNTY								
A017	USCE 10DP177	211GORD	NENWS36T02SR09E	05/14/1973	433.40	48	4	--
D047	USCE 1DP141	211EUTWR	SENWS35T03SR09E	05/--/1972	464.50	134	3	2.0
D048	USCE 1DP142	211EUTWR	SENWS35T03SR09E	05/--/1972	462	57	1.50	--
D055	USCE 3DP151	211GORD	NESES14T03SR09E	08/30/1972	453.30	163	3	--
D056	USCE 3DP152	211EUTW	NESES14T03SR09E	09/11/1972	451.40	100	3	--
D059	USCE 7DP167	211GORD	NESES01T03SR09E	03/12/1973	447	88	3	--
D060	USCE 7DP168	211EUTW	NESES01T03SR09E	03/13/1973	446.60	43	4	--
G079	USCE 6DP163	211GORD	SESES24T04SR09E	02/20/1973	573	222	4	--
G080	USCE 6DP164	211EUTW	SESES24T04SR09E	02/23/1973	572.60	125	4	--
G112	USCE 2DP147	211GORD	SESW11T04SR09E	07/20/1972	504.50	165	3	--
G113	USCE 2DP148	211EUTW	SESW11T04SR09E	07/25/1972	504.70	130	3	--
G116	USCE 4DP156	211GORD	SESW31T04SR10E	01/01/1973	490.10	153	3.50	--
G118	USCE 4DP158	211EUTW	SESW31T04SR10E	10/26/1972	487.70	56	4	--
G121	USCE 9DP173	211GORD	NESES14T04SR09E	04/19/1973	552.20	220	4	--
G122	USCE 9DP174	211EUTW	NESES14T04SR09E	04/23/1973	552.40	163	4	--
J076	USCE 5DP159	211GORD	NESWS08T05SR10E	11/06/1972	437.20	148	4	--
J077	USCE 5DP160	211EUTW	NESWS08T05SR10E	11/08/1972	436	60	3	--
L029	USCE 54A	211GORD	SWSWS11T07SR09E	04/28/1972	332	27	4	--
L030	USCE 55A	211GORD	SESES11T07SR09E	05/11/1972	380	50	4	18
L033	USCE 54B	110ALVM	SWSWS11T07SR09E	06/06/1972	332	12	4	0.50
L034	USCE 54C	110ALVM	SWSWS11T07SR09E	05/01/1972	333	13	2	--
L051	USCE GW125	110ALVM	SENE02T07SR09E	07/22/1975	367.10	17	2	--

DESCRIPTIONS OF GROUND-WATER WELLS--Continued

LOCAL NUMBER	OWNER	PRINCIPAL AQUIFER	LAND NET LOCATION	DATE COMPLETED	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	CASING DIAM- ETER (INCHES)	DISCHARGE (GALLONS PER MINUTE)
WELLS NOT IN THE GROUND-WATER NETWORK								
PRENTISS COUNTY								
M017	USCE 43C	211EUTWR	NWNWS27T06SR09E	05/--/1972	445	90	4	--
M018	USCE 43B	211MCSN	NWNWS27T06SR09E	05/--/1972	460	120	4	--
M021	USCE 41A	211GORD	SENWS28T06SR09E	05/--/1972	480	226	4	--
M022	USCE 41B	211EUTW	SENWS28T06SR09E	05/--/1972	480	176	4	16
M025	USCE 43D	211EUTWR	NWNWS27T06SR09E	05/--/1975	460	118	4	--

APPENDIX A

GROUND-WATER DATA

HYDROGRAPHS

WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

WATER LEVEL, IN FEET BELOW LAND SURFACE

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WATER LEVEL, IN FEET BELOW LAND SURFACE

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HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

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HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

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WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

WATER LEVEL, IN FEET BELOW LAND SURFACE

HYDROGRAPHS OF TENNESSEE-TOMBIGBEE OBSERVATION WELLS

APPENDIX A

GROUND-WATER DATA

WATER-QUALITY ANALYSES

GROUND-WATER WELLS

343201088204703 M017 USCE 43C

DATE	TIME	GEO-LOGIC UNIT	SAMPLE SOURCE	SAM-PLING CONDI-TION	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	FLOW RATE, INSTAN-TANEOUS (G/M)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
APR 1990 11...	1004	211EUTW	1	8.00	24.40	90.00	445	45	10	20
DATE	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
APR 11...	5.7	16.5	10	4	1.3	0.30	1.0	29	0.2	0.60
DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR 11...	4.6	0.20	1.4	<0.10	16	21	25	0.210	330	30

343201088204702 M018 USCE 43B

DATE	TIME	GEO-LOGIC UNIT	SAMPLE SOURCE	SAM-PLING CONDI-TION	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)
APR 1990 11...	1106	211MCSN	1	8.00	41.20	120.00	460	26	42	5.7
DATE	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)
APR 11...	16.5	10	15	4.2	1.0	1.0	12	0.1	1.0	9.7
DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	
APR 11...	5.3	1.4	0.10	13	31	34	0.200	610	20	

GROUND-WATER WELLS--Continued

343152088213002 M021 USCE 41A

DATE	TIME	GEO-LOGIC UNIT	SAMPLE SOURCE	SAM-PLING CONDI-TION	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	FLOW RATE, INSTAN-TANEOUS (G/M)	PH (STAND-ARD UNITS)
APR 1990 10...	0820	211GORD	1	8.00	157.02	226.00	480	30	10	6.7
AUG 16...	1305	211GORD	26	8.00	158.10	226.00	480	120	10	6.2
DATE	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)
APR 10...	17.0	5	25	7.1	1.8	1.4	10	0.1	2.1	24
AUG 16...	17.5	200	25	7.0	1.8	1.5	11	0.1	2.1	23
DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	
APR 10...	5.6	1.5	0.10	13	44	59	<0.020	12000	500	
AUG 16...	0.80	2.8	<0.10	13	55	55	0.020	12000	490	

343152088213003 M022 USCE 41B

DATE	TIME	GEO-LOGIC UNIT	SAMPLE SOURCE	SAM-PLING CONDI-TION	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	FLOW RATE, INSTAN-TANEOUS (G/M)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
APR 1990 10...	0915	211MCSN	1	8.00	72.22	176.00	480	30	10	42
DATE	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
APR 10...	6.2	17.0	<5	16	4.7	1.0	1.1	12	0.1	1.6
DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR 10...	15	3.9	1.0	0.10	21	38	44	<0.020	390	20

GROUND-WATER WELLS--Continued
343201088194701 M025 USCE 43D

DATE	TIME	GEO- LOGIC UNIT	SAMPLE SOURCE	SAM- PLING CONDI- TION	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
APR 1990 11...	1230	211EUTWR	1	8.00	43.28	118.00	460	30	5.0	20
DATE	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
APR 11...	6.0	18.0	<5	7	2.0	0.40	0.90	21	0.2	0.50
DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
APR 11...	6.9	0.10	0.90	0.10	15	21	25	0.230	50	10

APPENDIX B

SURFACE-WATER DATA

APPENDIX B

SURFACE-WATER DATA

DESCRIPTIONS OF SITES

DESCRIPTIONS OF SURFACE-WATER SITES

STATION NUMBER	STATION NAME	LATITUDE	LONGITUDE	SEQ. NO.	HYDRO-LOGIC UNIT CODE	DRAIN-AGE AREA (SQ. MI.)
SURFACE-WATER NETWORK						
03592824	TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS	34 54 51	088 14 48	00	06030005	
02433000	BULL MOUNTAIN CREEK NEAR SMITHVILLE, MS	34 05 18	088 23 26	00	03160101	336
02436500	TOWN CREEK NEAR NETTLETON, MS	34 03 32	088 37 40	00	03160102	620
333927088304935	TTW COLUMBUS LAKE BUTTAHATCHEE RIVER BEND SR 26A	33 39 27	088 30 49	35	03160101	
02439600	BUTTAHATCHEE RIVER NEAR KOLOLA SPRINGS, MS	33 40 24	088 25 45	00	03160103	855
02441000	TIBBEE CREEK NEAR TIBBEE, MS	33 32 17	088 38 00	00	03160104	926
02441400	TOMBIGBEE RIVER NEAR COLUMBUS, MS	33 29 40	088 27 40	00	03160101	4450
02441498	TOMBIGBEE RIVER COLUMBUS BEND SR 11B AT COLUMBUS, MS	33 26 06	088 29 38	35	03160101	
02443500	LUXAPALLILA CREEK NEAR COLUMBUS, MS	33 30 50	088 23 42	00	03160105	715
02443610	TOMBIGBEE RIVER PRATT CAMP SR 5HB BELOW COLUMBUS, MS	33 20 30	088 23 40	00	03160106	
02444210	TOMBIGBEE RIVER BIG CREEK BEND NEAR PICKENSVILLE, AL	33 11 11	088 16 03		03160106	
02446500	SIPSEY RIVER NEAR ELROD, AL	33 15 25	087 46 35		03160107	528
02447010	TOMBIGBEE RIVER COOKS BEND NEAR WARSAW, AL	32 57 38	088 11 14		03160106	
02448500	NOXUBEE RIVER NEAR GEIGER, AL	32 55 06	088 17 45		03160108	1100
02467001	TOMBIGBEE RIVER BELOW DEMOPOLIS LOCK AND DAM, AL	32 31 15	087 52 48		03160201	15400
SITES NOT IN THE SURFACE-WATER NETWORK						
02430500	TOMBIGBEE RIVER NEAR MARIETTA, MS	34 25 35	088 25 16	00	03160101	308
02430680	TWENTYMILE CREEK NEAR GUNTOWN, MS	34 27 11	088 34 38	00	03160101	131
02430690	TWENTYMILE CREEK NEAR MANTACHIE, MS	34 23 10	088 27 40	00	03160101	150
02431000	TOMBIGBEE RIVER NEAR FULTON, MS	34 15 53	088 26 42	00	03160101	612
02431410	MANTACHIE CREEK BELOW DORSEY, MS	34 13 41	088 27 08	00	03160101	66.9
02433500	TOMBIGBEE RIVER AT BIGBEE, MS	34 00 40	088 30 50	00	03160101	1230
02437000	TOMBIGBEE RIVER NEAR AMORY, MS	33 59 07	088 33 03	00	03160101	1930
02437500	TOMBIGBEE RIVER AT ABERDEEN, MS	33 49 14	088 31 07	00	03160101	2170
02439400	BUTTAHATCHEE RIVER NEAR ABERDEEN, MS	33 47 24	088 18 55	00	03160103	798
332929088273300	TTW ALIVEVILLE LAKE ABOVE COLUMBUS BEND	33 29 29	088 27 33		03160101	
332751088261000	TTW ALICEVILLE LAKE COLUMBUS CUT	33 27 51	088 26 10		03160101	
02444157	TOMBIGBEE RIVER AT ST HWY 86 NEAR PICKENSVILLE, AL	33 13 35	088 17 29	00	03160106	
02444500	TOMBIGBEE RIVER NEAR COCHRANE, AL	33 04 56	088 14 16		03160106	5940
02448000	NOXUBEE RIVER AT MACON, MS	33 06 08	088 33 40	00	03160108	768
02449000	TOMBIGBEE RIVER AT GAINESVILLE, AL	32 49 30	088 09 24	00	03160106	8630
02469525	TOMBIGBEE RIVER NEAR NANAFALIA, AL	32 07 48	088 02 28	00	03160201	17500
02469762	TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, AL	31 45 30	088 07 35		03160203	18400

APPENDIX B

SURFACE-WATER DATA

WATER-QUALITY ANALYSES

SURFACE-WATER SITES

03592824 TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS

							OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)		
DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)			
NOV 1989									
28...	1706	1.00	69	7.2	12.0	9.9	93		
28...	1707	5.00	69	7.2	12.0	9.9	93		
28...	1708	10.0	70	7.2	12.0	9.8	92		
28...	1709	13.0	70	7.2	12.0	9.7	91		
MAR 1990									
13...	0921	1.00	72	6.8	15.0	9.4	94		
13...	0922	5.00	72	6.8	14.5	9.4	93		
13...	0923	10.0	72	6.8	14.5	9.4	93		
13...	0924	12.0	72	6.8	14.5	9.3	92		
MAY									
30...	0916	1.00	71	6.9	22.0	7.0	81		
30...	0917	5.00	70	6.9	22.0	6.9	80		
30...	0918	10.0	70	6.9	22.0	6.9	80		
30...	0919	15.0	70	6.9	22.0	6.9	80		
30...	0920	17.0	70	6.9	22.0	6.9	80		
AUG									
07...	0841	1.00	145	7.6	27.5	6.9	88		
07...	0842	5.00	145	7.6	27.5	6.8	87		
07...	0843	10.0	145	7.5	27.5	6.8	87		
07...	0844	15.0	145	7.5	27.5	6.8	87		
07...	0845	16.0	145	7.5	27.5	6.8	87		
DATE	TIME	GAGE HEIGHT (FEET)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
NOV 1989									
28...	1705	9.92	40	12	24.5	0.6	57	7.8	1.5
MAR 1990									
13...	0920	8.93	40	27	22.2	1.0	51	8.1	1.4
MAY									
30...	0915	13.43	30	12	16.3	0.4	59	9.1	1.4
AUG									
07...	0840	12.07	10	2.8	28.5	1.1	K13	19	3.4
DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
NOV									
28...	19	6.5	2.3	0.20	41	16	0.040	0.010	0.23
MAR									
13...	15	11	2.0	0.05	45	58	0.140	0.040	0.53
MAY									
30...	22	6.1	1.7	<0.10	49	27	0.140	0.050	0.20
AUG									
07...	52	10	5.2	<0.10	73	10	<0.020	<0.010	0.22
DATE	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	
NOV									
28...	0.040	0.020	1400	130	<1	--	1.10	<0.100	
MAR									
13...	0.030	<0.020	2500	240	<1	--	1.10	<0.100	
MAY									
30...	0.030	<0.020	1400	150	<1	--	0.500	<0.100	
AUG									
07...	0.050	0.040	440	150	<1	0.02	3.00	0.200	

SURFACE-WATER SITES---Continued

02430500 TOMBIGBEE RIVER NEAR MARIETTA, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
MAR 1990 06...	1715	470	61	77	JUN 28...	1300	128	85	29
APR 11...	1425	296	57	46	AUG 14...	1550	156	113	48
MAY 24...	1530	384	78	81					

02430680 TWENTYMILE CREEK NEAR GUNTOWN, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JAN 1990 25...	1145	282	59	45	APR 10...	0940	64	18	3.1
MAR 06...	1315	147	28	11					

02430690 TWENTYMILE CREEK NEAR MANTACHIE, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
MAY 1990 22...	1525	415	116	130	JUL 11...	1520	2.4	44	0.29

02431000 TOMBIGBEE RIVER NEAR FULTON, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JAN 1990 24...	1645	1600	147	635	MAR 07...	1320	1560	79	333
FEB 02...	1530	1580	822	3510	APR 11...	0725	478	70	90
04...	0050	8960	1040	25200	MAY 21...	1110	1910	615	3170
04...	0635	15400	1530	63600	JUL 11...	1600	116	33	10
04...	2140	24800	711	47600	AUG 14...	1810	157	51	22
05...	0810	17600	492	23400					
05...	1500	14100	376	14300					
16...	0220	1970	154	819					

SURFACE-WATER SITES--Continued

02431410 MANTACHIE CREEK BELOW DORSEY, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JAN 1990					MAR				
25...	1035	231	136	85	07...	1635	87	37	8.7
FEB					APR				
02...	1400	2100	1510	8560	09...	1910	33	27	2.4
02...	1730	1290	1050	3660	MAY				
03...	2340	6170	4620	77000	22...	1800	187	110	56
04...	0505	4680	2650	33500	JUL				
04...	0820	3500	2160	20400	11...	1425	9.6	201	5.2
04...	1320	2170	1100	6440	AUG				
05...	0910	2210	172	1030	13...	1355	4.3	30	0.35
15...	2320	648	492	861					
16...	0120	1160	2100	6580					
16...	0300	1290	1690	5890					
16...	0640	1090	956	2810					
16...	0920	944	662	1690					

02433000 BULL MOUNTAIN CREEK NEAR SMITHVILLE, MS

		SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	
NOV 1989											
29...	1305	29	6.6	12.0	40	9.2	28.5	9.3	--	0.5	
MAR 1990											
13...	1320	28	6.2	17.5	30	14	24.5	8.8	93	0.8	
MAY											
30...	1300	26	6.1	19.5	50	35	11.0	7.8	86	0.8	
AUG 07...	1300	39	6.6	28.0	10	4.8	30.5	7.0	90	0.7	
DATE		COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 29...	65	2.1	0.80	4.8	2.9	1.9	0.10	18	11	0.130	
MAR 13...	K82	1.7	0.80	--	3.1	1.6	<0.05	27	22	0.170	
MAY 30...	210	1.6	0.80	4.1	2.5	1.5	<0.10	23	45	0.180	
AUG 07...	35	3.0	1.0	8.8	2.5	2.2	<0.10	25	9	0.080	
DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
NOV 29...	0.010	<0.20	0.020	0.020	1100	120	<1	--	--	--	
MAR 13...	0.010	<0.20	<0.020	<0.020	1100	120	<1	--	0.400	<0.100	
MAY 30...	0.050	<0.20	0.030	<0.020	2500	230	<1	--	0.200	<0.100	
AUG 07...	0.010	0.43	0.040	0.050	950	160	<1	0.02	0.400	<0.100	

SURFACE-WATER SITES--Continued

02433500 TOMBIGBEE RIVER AT BIGBEE, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
DEC 1989					MAY				
05...	1315	503	18	24	23...	1800	4160	152	1710
JAN 1990					JUL				
25...	1315	6070	168	2750	10...	1335	301	39	32
MAR					AUG				
12...	1400	3370	75	682	16...	1040	294	40	32
APR									
11...	1655	872	27	64					

02436500 TOWN CREEK NEAR NETTLETON, MS

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	
NOV 1989											
29...	1010	280	7.9	9.5	20	21	19.5	10.6	92	2.5	
MAR 1990											
13...	1540	227	7.6	20.5	20	25	12.5	8.7	98	1.5	
MAY											
30...	1505	260	7.8	25.0	10	26	14.5	8.4	103	2.3	
AUG											
08...	0740	339	7.8	22.0	10	2.0	9.50	7.8	90	0.6	
DATE	TIME	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV											
29...	K1900	41	2.2	96	21	12	0.20	156	36	0.490	
MAR											
13...	1100	37	1.7	85	14	5.9	0.10	134	102	0.280	
MAY											
30...	K5000	43	2.0	99	16	10	0.20	158	69	0.710	
AUG											
08...	240	45	3.1	109	20	24	0.20	197	10	0.760	
DATE	TIME	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
NOV											
29...	0.080	0.46	0.200	0.130	1400	80	<1	--	0.600	<0.100	
MAR											
13...	0.060	0.35	0.130	0.030	4300	80	<1	--	1.90	0.200	
MAY											
30...	<0.010	<0.20	0.190	0.090	2100	110	<1	--	1.80	0.400	
AUG											
08...	0.030	0.44	0.240	0.180	420	70	<1	0.07	7.60	1.70	

SURFACE-WATER SITES--Continued

02436500 TOWN CREEK NEAR NETTLETON, MS--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 1990					
26...	1000	1270	250	857	--
FEB					
15...	1615	4610	1310	16300	--
15...	2320	4380	819	9690	--
16...	0110	6640	1460	26200	--
16...	0300	10200	2120	58400	--
16...	0615	11100	1510	45300	68
16...	0950	9940	1320	35400	--
16...	1150	8560	1100	25400	--
MAR					
09...	1340	4820	540	7030	--
APR					
09...	1345	1050	53	150	--
MAY					
20...	2150	1310	1150	4070	--
21...	0001	1840	1630	8100	--
21...	0630	3900	1650	17400	83
21...	1315	5900	1520	24200	--
21...	1840	9690	1140	29800	69
21...	1950	9510	1290	33100	--
21...	2100	9220	1220	30400	--
JUL					
10...	1615	39	43	4.5	--
AUG					
15...	1315	27	32	2.3	--

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
FEB 1990										
16...	0615	30	33	38	46	59	67	83	100	--
MAY										
21...	0630	48	54	62	72	81	88	92	99	100
21...	1840	33	36	41	49	58	68	76	98	100

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
FEB 1990									
16...	0617	25.0	1	2	34	99	100	--	--
16...	0619	50.0	1	2	25	89	100	--	--
16...	0621	75.0	1	1	7	36	98	--	--
MAY									
21...	1842	25.0	1	2	32	98	100	--	--
21...	1844	50.0	1	2	16	77	98	100	--
21...	1846	75.0	<1	2	14	57	92	96	99

02437000 TOMBIGBEE RIVER NEAR AMORY, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JAN 1990									
25...	1700	8440	264	6020	MAY 23...	1340	5870	213	3380
MAR									
13...	1500	3540	100	956					

SURFACE-WATER SITES---Continued

02437500 TOMBIGBEE RIVER AT ABERDEEN, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
MAR 1990												
12...	1835	11800	58	1850	--							
APR												
10...	1535	2310	25	156	--							
MAY												
21...	1735	20600	98	5450	--							
21...	2010	20200	146	7960	--							
22...	0415	15700	152	6440	91							
22...	1150	15700	155	6570	--							
22...	1610	11300	124	3780	--							
JUL												
11...	0820	764	30	62	--							
MAY 1990												
22...	0415	70	81	88	94	97	98	100				
MAY 1990												
22...	0417	25.0	46	54	81	98	100	--	--			
22...	0419	50.0	.2	2	30	98	100	--	--			
22...	0421	75.0	<1	1	9	64	65	66	69			

333927088304935 TTW COLUMBUS LAKE BUTTAHATCHEE RIVER BEND SR 26A

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	ALKA- LITY LAB (MG/L AS CACO3)
NOV 1989								
30...	1126	1.00	138	7.3	11.0	9.8	88	
30...	1127	5.00	139	7.3	11.0	9.8	88	
30...	1128	10.0	137	7.3	11.0	9.7	87	
30...	1129	12.0	139	7.3	11.0	9.7	87	
MAR 1990								
14...	1431	1.00	125	7.2	18.0	9.4	101	
14...	1432	5.00	125	7.2	18.0	9.2	98	
14...	1433	8.00	125	7.2	18.0	9.2	98	
AUG								
08...	1501	1.00	210	7.3	30.0	7.3	97	
08...	1502	5.00	210	7.0	28.5	6.0	78	
08...	1503	10.0	210	6.9	28.5	5.0	65	
08...	1504	12.0	212	6.8	28.0	4.4	57	
NOV 1989								
30...	1125	60	33	12.0	1.7	150	17	31
MAR 1990								
14...	1430	60	35	14.0	0.9	130	18	35
MAY								
31...	1210	120	42	8.25	1.7	150	15	25
AUG								
08...	1500	10	7.5	20.2	0.6	26	25	42

SURFACE-WATER SITES--Continued

333927088304935 TTW COLUMBUS LAKE BUTTAHATCHEE RIVER BEND SR 26A--Continued

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
NOV 30...	12	11	0.20	85	37	0.140	0.070	0.38
MAR 14...	9.5	5.5	0.06	76	46	0.190	0.050	0.59
MAY 31...	7.6	11	0.10	79	43	0.290	0.050	0.22
AUG 08...	16	26	0.10	132	16	<0.020	0.010	0.33

DATE	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
NOV 30...	0.080	0.020	1900	150	<1	--	1.40	0.100
MAR 14...	0.060	0.020	2500	110	<1	--	2.50	0.200
MAY 31...	0.080	<0.020	2200	110	<1	--	1.30	<0.100
AUG 08...	0.060	0.030	590	230	<1	0.05	2.20	0.500

02439400 BUTTAHATCHEE RIVER NEAR ABERDEEN, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
DEC 1989 06...	1115	676	8	15	APR 09...	1450	1140	22	68
JAN 1990 26...	1520	3690	26	259	MAY 23...	1125	10400	51	1430
MAR 06...	1520	4100	19	210	AUG 14...	1135	186	32	16

02439600 BUTTAHATCHEE RIVER NEAR KOLOLA SPRINGS, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
NOV 1989 29...	1530	1120	33	6.6	12.0	30	13	21.0	9.5	88	2.7
MAR 1990 14...	0740	1930	32	6.3	17.5	30	15	18.2	8.3	88	0.3
MAY 31...	0920	1750	27	6.1	20.0	60	32	12.0	7.6	84	1.1
AUG 08...	1000	251	36	6.5	25.0	70	26	16.0	7.0	85	0.2

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 29...	92	1.8	0.90	4.6	3.3	2.6	0.20	19	18	0.180
MAR 14...	73	2.2	0.90	5.1	3.4	2.1	<0.05	28	26	0.190
MAY 31...	120	2.0	0.80	5.4	2.6	1.7	<0.10	23	36	0.170
AUG 08...	54	2.2	1.0	6.7	2.5	3.2	<0.10	27	28	0.300

SURFACE-WATER SITES--Continued

02439600 BUTTAHATCHEE RIVER NEAR KOLOLA SPRINGS, MS--Continued

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
NOV 29...	0.010	<0.20	0.040	0.020	1200	140	<1	--	<0.100	<0.100
MAR 14...	0.020	<0.20	0.020	0.020	1300	130	<1	--	0.300	<0.100
MAY 31...	0.060	<0.20	0.040	<0.020	2200	150	<1	--	0.400	<0.100
AUG 08...	0.010	0.75	0.050	0.030	1700	200	<1	0.06	0.600	<0.100

02441000 TIBBEE CREEK NEAR TIBBEE, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
NOV 1989 30...	0915	--	253	7.7	10.5	30	25	13.5	9.5	85	1.4
MAR 1990 14...	1100	870	206	7.3	19.5	80	60	13.0	7.8	86	0.7
MAY 31...	1505	--	206	7.4	22.5	80	42	15.5	6.7	78	1.2
AUG 08...	1215	--	226	7.6	28.0	30	21	14.5	6.0	77	1.2

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 30...	K230	39	2.6	85	24	8.4	0.20	152	37	0.060
MAR 14...	190	32	2.1	73	16	4.5	0.09	114	92	0.070
MAY 31...	380	34	1.9	82	13	7.5	0.20	123	68	0.210
AUG 08...	170	37	2.1	90	14	7.0	0.20	132	77	0.440

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
NOV 30...	0.010	0.35	0.110	0.020	1100	110	<1	--	1.50	0.100
MAR 14...	0.010	0.33	0.120	0.020	3900	140	<1	--	3.30	0.400
MAY 31...	0.020	0.25	0.100	0.020	2200	100	<1	--	2.00	0.200
AUG 08...	0.050	0.52	0.120	0.040	1800	180	<1	0.07	6.70	1.20

SURFACE-WATER SITES--Continued

02441400 TOMBIGBEE RIVER NEAR COLUMBUS, MS

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 1989							
30...	1446	1.00	119	7.5	11.0	11.0	99
30...	1447	5.00	119	7.4	10.5	10.9	97
30...	1448	10.0	117	7.4	10.5	10.9	97
30...	1449	13.0	117	7.4	10.5	10.9	97
MAR 1990							
15...	0911	1.00	103	7.2	18.0	10.8	115
15...	0912	5.00	103	7.2	18.0	10.9	116
15...	0913	10.0	102	7.2	18.0	11.0	117
15...	0914	15.0	102	7.2	18.0	11.0	117
JUN							
01...	0916	1.00	73	6.8	22.5	9.2	107
01...	0917	5.00	73	6.8	22.5	9.2	107
01...	0918	10.0	72	6.8	22.5	9.2	107
01...	0919	15.0	72	6.8	22.5	9.2	107
01...	0920	18.0	71	6.8	22.5	9.3	108
AUG							
09...	0901	1.00	210	7.5	27.5	7.6	97
09...	0902	5.00	201	7.5	27.5	7.3	93
09...	0903	10.0	201	7.5	27.5	7.2	92
09...	0904	14.0	201	7.5	27.5	7.3	93

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
NOV 1989									
30...	1445	3310	60	28	13.5	2.0	120	14	1.3
MAR 1990									
15...	0910	15800	60	33	10.5	0.9	110	14	1.1
JUN									
01...	0915	4800	80	50	10.3	1.5	140	9.3	0.90
AUG									
09...	0900	702	10	5.4	24.5	1.2	K5	23	1.7

DATE	TIME	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
NOV										
30...	28	9.6	8.4	0.50	71	30	1.60	0.050	0.49	
MAR										
15...	29	7.5	4.7	0.06	61	45	0.200	0.050	0.32	
JUN										
01...	18	5.2	6.5	<0.10	50	54	0.250	0.040	0.27	
AUG										
09...	43	14	24	<0.10	121	14	0.020	0.010	0.73	

DATE	TIME	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
NOV									
30...		0.120	0.060	1500	130	<1	--	1.30	<0.100
MAR									
15...		0.060	0.020	2400	110	<1	--	2.00	0.100
JUN									
01...		0.070	<0.020	2500	130	<1	--	0.800	<0.100
AUG									
09...		0.060	0.030	540	130	<1	0.05	1.80	0.300

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1990									
09...	1200	4040	27	295	MAY				
					24...	1330	19400	85	4450

SURFACE-WATER SITES--Continued

332929088273300 TTW ALICEVILLE LAKE ABOVE COLUMBUS BEND

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
JAN											
24...	1250	25.0	0	1	2	10	14	17	22	36	69
24...	1300	50.0	0	0	4	8	9	10	15	31	72
24...	1310	75.0	0	1	13	79	84	87	90	95	100

02441498 TOMBIGBEE RIVER COLUMBUS BEND SR 11B AT COLUMBUS, MS

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV							
30...	1530	--	107	7.4	10.5	11.0	--
30...	1531	5.00	107	7.3	10.5	10.9	--
30...	1532	10.0	107	7.3	10.5	10.9	--
30...	1534	15.0	107	7.3	10.5	10.9	--
30...	1535	20.0	107	7.3	10.5	10.8	--
30...	1536	23.0	107	7.3	10.5	10.8	--
MAR							
15...	1001	--	111	7.3	18.0	10.1	108
15...	1002	5.00	111	7.3	18.0	9.9	106
15...	1003	10.0	111	7.2	18.0	9.9	106
15...	1004	15.0	112	7.2	18.0	9.8	104
15...	1005	17.0	112	7.2	18.0	9.9	106
JUN							
01...	0940	--	73	6.9	22.5	8.6	99
01...	0941	5.00	75	6.8	22.5	8.6	--
01...	0942	10.0	73	6.8	22.5	8.6	--
01...	0943	15.0	73	6.8	22.5	8.4	--
01...	0944	20.0	73	6.8	22.5	8.5	--
01...	0945	25.0	73	6.8	22.5	8.6	--
AUG							
09...	0940	--	191	7.0	28.5	6.0	77
09...	0941	5.00	192	7.1	28.0	5.8	--
09...	0942	10.0	192	7.0	28.0	5.7	--
09...	0943	15.0	192	7.0	28.0	5.7	--
09...	0944	20.0	192	7.0	28.0	5.6	--

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LITY LAB (MG/L AS CACO3)
NOV									
30...	1530	70	31	14.5	--	92	13	1.3	25
MAR									
15...	1000	70	33	13.5	--	92	15	1.2	32
JUN									
01...	0940	120	48	10.3	1.6	80	10	0.90	19
AUG									
09...	0940	10	7.9	15.5	--	53	23	1.6	42

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
NOV								
30...	8.9	8.2	0.20	67	34	0.150	0.040	0.24
MAR								
15...	8.3	4.8	0.06	65	46	0.210	0.040	0.33
JUN								
01...	5.2	6.5	0.10	49	54	0.260	0.040	0.22
AUG								
09...	14	22	<0.10	114	19	0.020	0.010	0.41

SURFACE-WATER SITES--Continued

02441498 TOMBIGBEE RIVER COLUMBUS BEND SR 11B AT COLUMBUS, MS--Continued

		PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)			
	NOV 30...	0.090	0.020	1900	140	<1	--	1.60	0.100			
	MAR 15...	0.060	0.020	2500	110	<1	--	2.00	0.100			
	JUN 01...	0.080	0.020	2400	130	<1	--	2.60	0.200			
	AUG 09...	0.060	0.040	570	160	<1	0.03	1.60	0.200			
		SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	
JAN	24...	1345	25.0	2	9	32	60	65	68	73	85	94
	24...	1350	50.0	3	17	57	55	58	61	68	80	94
	24...	1355	75.0	8	19	22	25	28	33	41	58	84

332751088261000 TTW ALICEVILLE LAKE COLUMBUS CUT

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
JAN 24...	1315	25.0	0	0	7	87	98	98	99	100	100
24...	1320	50.0	0	0	16	98	100	100	100	100	100
24...	1325	75.0	2	5	21	70	73	75	79	86	97

02443500 LUXAPALLILA CREEK NEAR COLUMBUS, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
DEC 1989 01...	0820	777	31	6.4	9.0	50	9.9	30.5	10.3	--	1.0
MAR 1990 15...	1330	1440	33	6.4	18.5	60	15	42.5	8.2	88	0.7
JUN 05...	1610	1940	31	6.1	22.0	100	36	11.5	7.5	86	2.4
AUG 09...	1250	132	36	6.7	25.5	40	6.3	34.0	7.3	90	0.1
DATE		COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
DEC 01...	K240	1.9	0.80	3.3	3.4	2.9	0.10	22	8	0.070	
MAR 15...	660	2.4	0.90	6.2	2.9	2.1	<0.05	31	24	0.080	
JUN 05...	K960	2.0	0.90	5.1	2.3	1.9	<0.10	31	55	0.170	
AUG 09...	90	2.7	1.0	8.2	2.3	2.4	<0.10	28	8	0.140	

SURFACE-WATER SITES--Continued

02443500 LUXAPALLILA CREEK NEAR COLUMBUS, MS--Continued

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
DEC 01...	0.010	0.22	0.040	0.020	1700	150	<1	--	<0.100	<0.100
MAR 15...	0.020	0.23	0.030	<0.020	1900	220	<1	--	0.600	<0.100
JUN 05...	0.030	0.55	0.050	<0.020	3800	400	<1	--	0.400	<0.100
AUG 09...	0.010	0.31	0.040	0.030	1300	180	<1	0.06	0.200	<0.100

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
DEC 1989 07...	1530	526	15	21	APR 12...	1000	1010		16 44
JAN 1990 27...	0800	3790	22	225	MAY 24...	1000	2540		50 343
MAR 07...	1130	2030	18	99	JUL 12...	1240	268		13 9.4

02443610 TOMBIGBEE RIVER PRATT CAMP SR 5HB BELOW COLUMBUS, MS

								OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	
DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)			
DEC									
01...	1035	--	149	7.3	11.5	9.2	--		
01...	1036	5.00	152	7.2	11.0	8.9	--		
01...	1037	10.0	157	7.3	11.0	8.8	--		
01...	1038	13.0	154	7.2	11.0	8.5	--		
MAR									
16...	0931	--	140	7.4	16.0	9.4	96		
16...	0932	5.00	140	7.4	16.0	9.4	96		
16...	0933	10.0	140	7.4	16.5	9.3	95		
16...	0934	15.0	140	7.4	16.5	9.3	95		
JUN									
05...	1255	--	138	7.4	27.5	8.6	110		
05...	1256	5.00	141	7.1	23.5	6.8	--		
05...	1257	10.0	142	7.1	23.5	6.7	--		
05...	1258	15.0	144	7.1	23.5	6.3	--		
AUG									
10...	0845	--	192	7.0	28.0	4.3	55		
10...	0846	5.00	191	7.1	28.0	4.3	--		
10...	0847	10.0	190	7.1	28.0	3.8	--		
10...	0848	15.0	188	6.7	27.5	1.4	--		
DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LITY LAB (MG/L AS CACO3)
DEC									
01...	1035	50	26	14.5	--	230	22	1.3	45
MAR									
16...	0930	40	72	10.5	--	>600	22	1.0	47
JUN									
05...	1255	20	32	8.75	2.0	200	22	1.0	46
AUG									
10...	0845	10	16	20.3	--	K5	22	1.5	47

SURFACE-WATER SITES--Continued

02443610 TOMBIGBEE RIVER PRATT CAMP SR 5HB BELOW COLUMBUS, MS--Continued

DATE	SULFATE DIS- SOLVED (MG/L AS SO ₄)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)
DEC 01...	14	7.2	0.20	93	31	0.110	0.060	0.36
MAR 16...	8.9	3.9	0.09	84	92	0.230	0.040	0.23
JUN 05...	9.2	4.8	0.20	92	52	0.710	0.040	0.49
AUG 10...	14	18	<0.10	110	27	<0.020	0.010	0.38
DATE	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
DEC 01...	0.100	0.040	1500	160	<1	--	1.70	<0.100
MAR 16...	0.110	0.020	4300	100	<1	--	2.20	0.200
JUN 05...	0.140	0.040	1600	80	<1	--	3.20	0.300
AUG 10...	0.080	0.030	920	270	<1	0.07	2.70	0.500

02444157 TOMBIGBEE RIVER AT ST HWY 86 NEAR PICKENSVILLE, AL

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
11...	0903	25.0	570	11	17
11...	0910	50.0	570	7	11
11...	0915	75.0	570	8	12
NOV					
20...	0950	25.0	9960	24	645
20...	0955	50.0	9960	27	726
20...	1000	75.0	9960	28	753
JAN					
03...	1000	25.0	19300	100	5210
03...	1010	50.0	19300	96	5000
03...	1015	75.0	19300	108	5630
FEB					
23...	1215	25.0	37600	117	11900
23...	1220	50.0	37600	112	11400
23...	1225	75.0	37600	118	12000
APR					
04...	1050	25.0	4120	18	200
04...	1055	50.0	4120	12	133
04...	1100	75.0	4120	11	122
MAY					
14...	1035	25.0	4070	20	220
14...	1040	50.0	4070	14	154
14...	1045	75.0	4070	11	121
JUN					
25...	1030	25.0	4980	27	363
25...	1035	50.0	4980	30	403
25...	1040	75.0	4980	36	484
AUG					
06...	0940	25.0	1300	21	74
06...	0945	50.0	1300	22	77
06...	0950	75.0	1300	18	63
SEP					
17...	0930	25.0	366	12	12
17...	0935	50.0	366	12	12
17...	0940	75.0	366	13	13

SURFACE-WATER SITES--Continued

02444210 TOMBIGBEE RIVER BIG CREEK BEND NEAR PICKENSVILLE, AL

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)		
DEC									
04...	1100	--	69	6.5	8.0	8.8	74		
04...	1101	5.00	69	6.5	8.0	8.6	--		
04...	1102	10.0	69	6.5	8.0	8.5	--		
04...	1103	12.0	69	6.5	8.0	8.4	--		
MAR									
27...	1021	--	57	6.4	12.5	9.6	90		
27...	1022	5.00	57	6.4	12.0	9.6	89		
27...	1023	10.0	56	6.4	11.0	9.6	86		
27...	1024	15.0	52	6.5	11.5	9.7	89		
JUN									
06...	1025	--	51	6.5	25.0	7.9	96		
06...	1026	5.00	48	6.4	23.0	7.5	--		
06...	1027	7.00	47	6.4	23.0	7.7	--		
AUG									
10...	1100	--	92	6.8	28.5	7.2	93		
10...	1101	5.00	9	6.7	28.0	6.6	--		
10...	1102	9.00	90	6.7	27.5	6.0	--		
DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LITY LAB (MG/L AS CACO3)
DEC									
04...	1100	10	31	4.50	--	--	5.8	1.1	9.4
MAR									
27...	1020	20	25	19.5	--	280	4.6	1.1	11
JUN									
06...	1025	20	19	15.5	1.2	230	4.9	1.1	12
AUG									
10...	1100	<5	13	16.5	--	26	10	2.1	28
DATE	TIME	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
DEC									
04...		7.1	3.0	0.10	41	200	0.080	0.480	0.72
MAR									
27...		5.8	2.2	<0.10	34	66	0.110	0.030	<0.20
JUN									
06...		4.8	2.3	0.10	43	25	0.080	<0.010	0.22
AUG									
10...		7.6	4.7	<0.10	54	21	<0.020	0.010	0.23
DATE	TIME	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE PHYTO- BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
DEC									
04...		0.240	0.020	9000	730	--	--	1.20	0.100
MAR									
27...		0.060	0.040	2900	450	<1	--	2.00	<0.100
JUN									
06...		0.080	<0.020	1400	270	<1	--	8.00	0.900
AUG									
10...		0.070	0.040	1400	540	<1	0.03	2.80	0.700

SURFACE-WATER SITES--Continued

02444500 TOMBIGBEE RIVER NEAR COCHRANE, AL

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)
OCT				
11...	1030	25.0	E603	27
11...	1035	50.0	E603	13
11...	1040	75.0	E603	14
NOV				
20...	1130	25.0	E7860	30
20...	1140	50.0	E7860	30
20...	1145	75.0	E7860	30
JAN				
03...	1130	25.0	E17700	112
03...	1135	50.0	E17700	111
03...	1140	75.0	E17700	107
FEB				
23...	1045	25.0	E38600	89
23...	1050	50.0	E38600	91
23...	1055	75.0	E38600	102
APR				
04...	1225	25.0	E7800	10
04...	1230	50.0	E7800	14
04...	1235	75.0	E7800	12
MAY				
14...	1145	25.0	E7780	17
14...	1150	50.0	E7780	14
14...	1155	75.0	E7780	15
JUN				
25...	1140	25.0	E4170	27
25...	1145	50.0	E4170	42
25...	1150	75.0	E4170	43
AUG				
06...	1045	25.0	E2340	24
06...	1050	50.0	E2340	24
06...	1055	75.0	E2340	68
SEP				
17...	1055	25.0	E1300	14
17...	1100	50.0	E1300	15
17...	1105	75.0	E1300	15

02446500 SIPSEY RIVER NEAR ELROD, AL

							OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)		
DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)			
NOV									
27...	0900	--	42	6.0	11.5	7.7	72		
27...	0901	5.00	43	6.0	11.5	7.7	--		
27...	0902	7.00	43	6.0	11.5	7.7	--		
MAR									
12...	0941	--	67	6.4	18.0	7.3	77		
12...	0942	5.00	69	6.4	18.0	7.2	76		
12...	0943	10.0	69	6.4	17.5	7.2	76		
MAY									
29...	1000	--	63	6.4	20.5	6.6	74		
29...	1001	4.00	64	6.4	20.5	6.5	--		
AUG									
06...	0930	--	93	6.7	26.0	6.8	84		
06...	0931	2.00	93	6.7	26.0	6.8	--		
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
NOV									
27...	0900	2490	80	16	23.0	--	480	2.4	1.5
MAR									
12...	0940	1620	30	5.9	43.5	--	140	4.7	3.0
MAY									
29...	1000	1190	50	6.1	30.5	0.6	180	4.6	3.1
AUG									
06...	0930	140	20	3.4	24.5	--	42	--	--

SURFACE-WATER SITES--Continued

02446500 SIPSEY RIVER NEAR ELROD, AL--Continued

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)
NOV 27...	2.5	8.4	2.0	0.10	27	12	0.030	<0.010	0.24
MAR 12...	11	14	1.8	<0.05	40	12	0.040	0.010	0.20
MAY 29...	11	14	1.6	<0.10	45	14	0.100	0.030	0.30
AUG 06...	19	18	2.7	<0.10	58	14	0.140	0.020	0.46

DATE	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
NOV 27...	0.060	0.020	1700	120	<1	--	0.400	0.100
MAR 12...	0.020	<0.020	1000	90	<1	--	0.700	<0.100
MAY 29...	0.020	<0.020	1400	200	<1	--	0.300	<0.100
AUG 06...	0.050	0.040	1100	300	<1	0.06	2.00	0.200

02447010 TOMBIGBEE RIVER COOKS BEND NEAR WARSAW, AL

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC							
05...	0915	--	90	7.1	9.5	10.9	96
05...	0916	5.00	90	7.1	9.5	10.8	95
05...	0917	10.0	91	7.1	9.5	10.8	95
05...	0918	15.0	91	7.1	9.5	10.8	95
05...	0919	20.0	89	7.1	9.5	10.7	94
05...	0920	25.0	89	7.1	9.5	10.7	94
05...	0921	30.0	89	7.1	9.5	10.7	94
05...	0922	35.0	89	7.1	9.5	10.6	93
05...	0923	38.0	89	7.1	9.5	10.6	93
MAR							
27...	1326	--	65	6.8	16.0	10.5	106
27...	1327	5.00	65	6.8	15.5	10.5	--
27...	1328	10.0	65	6.8	15.5	10.4	--
27...	1329	15.0	65	6.8	15.5	10.4	--
27...	1330	20.0	65	6.8	15.5	10.3	--
27...	1331	25.0	65	6.8	15.5	10.3	--
27...	1332	27.0	65	6.8	15.5	10.3	--
JUN							
06...	1410	--	109	7.0	25.5	8.2	100
06...	1411	5.00	110	7.0	25.0	8.4	--
06...	1412	10.0	109	7.0	25.0	8.4	--
06...	1413	15.0	110	7.0	25.0	8.4	--
06...	1414	20.0	109	7.0	25.0	8.4	--
06...	1415	25.0	109	7.0	25.0	8.4	--
06...	1416	30.0	109	7.0	25.0	8.4	--
06...	1417	35.0	109	7.0	25.0	8.3	--
06...	1418	40.0	109	7.0	25.0	8.2	--
06...	1419	45.0	109	7.0	25.0	8.2	--
06...	1420	48.0	109	7.0	25.0	8.2	--
AUG							
13...	1215	--	159	7.2	30.0	6.9	92
13...	1216	5.00	162	6.9	29.5	5.2	--
13...	1217	10.0	162	6.9	29.5	4.8	--
13...	1218	15.0	162	6.9	29.5	4.8	--
13...	1219	20.0	162	6.8	29.0	4.6	--
13...	1220	25.0	162	6.8	29.0	4.3	--
13...	1221	30.0	163	6.7	29.0	2.5	--

SURFACE-WATER SITES--Continued

02447010 TOMBIGBEE RIVER COOKS BEND NEAR WARSAW, AL--Continued

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LITY LAB (MG/L AS CACO3)
DEC 05...	0915	70	29	14.2	--	73	10	1.3	19
MAR 27...	1325	40	14	19.5	--	77	7.3	1.2	16
JUN 06...	1410	50	31	9.00	1.7	71	16	1.3	33
AUG 13...	1215	30	7.8	22.5	--	K7	17	1.8	39

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
DEC 05...	8.6	5.5	0.20	48	31	0.110	0.050	0.30
MAR 27...	6.6	2.6	<0.10	47	14	0.120	<0.010	0.35
JUN 06...	8.2	5.1	0.10	72	41	--	--	--
AUG 13...	13	15	<0.10	92	14	0.020	0.030	0.50

DATE	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
DEC 05...	0.090	0.020	1600	130	<1	--	--	--
MAR 27...	0.040	0.020	1600	80	5	--	1.80	<0.100
JUN 06...	0.120	--	1800	100	<1	--	2.30	0.200
AUG 13...	0.050	0.040	450	170	<1	0.04	1.30	0.300

02448000 NOXUBEE RIVER AT MACON, MS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
JAN 1990								
22...	1550	6950	62	1160	--			
MAR								
02...	1215	3200	345	2980	--			
02...	1755	4110	243	2700	97			
03...	0720	4400	134	1590	98			
03...	1425	4520	126	1540	--			
05...	1105	4640	74	927	90			
APR								
09...	0650	458	50	62	--			
JUN								
04...	1200	2020	397	2170	98			
JUL								
13...	1030	162	71	31	--			
AUG								
20...	1230	74	46	9.2	--			
		SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
MAR 1990								
03...	0720	60	74	81	89	95	98	100

SURFACE-WATER SITES--Continued

02448000 NOXUBEE RIVER AT MACON, MS--Continued

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR 1990 03...	0724	50.0	1	13	33	67	94

02448500 NOXUBEE RIVER NEAR GEIGER, AL

							OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)			
DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)				
DEC 04...	1415	--	148	7.6	8.5	10.6	91			
MAR 27...	1521	--	147	7.4	15.0	9.6	--			
27...	1522	3.00	147	7.5	15.0	9.5	--			
JUN 06...	1600	--	142	7.0	23.5	6.4	76			
AUG 13...	1500	--	130	7.6	27.5	6.4	--			
13...	1501	3.00	130	7.5	27.5	6.2	--			
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
DEC 04...	1415	90	50	26	15.5	--	--	19	2.3	
MAR 27...	1520	743	50	30	17.5	--	57	--	--	
JUN 06...	1600	1370	80	95	10.5	1.3	--	21	1.8	
AUG 13...	1500	106	60	39	15.5	--	77	18	1.5	
DATE	TIME	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
DEC 04...	42	16	5.3	0.20	89	38	0.120	<0.010	0.31	
MAR 27...	49	13	4.2	<0.10	87	51	0.170	0.010	<0.20	
JUN 06...	46	12	6.6	0.10	99	175	--	--	--	
AUG 13...	51	3.8	3.5	<0.10	79	58	0.330	0.020	0.36	
DATE	TIME	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	
DEC 04...		0.100	0.040	1500	110	<1	--	0.500	<0.100	
MAR 27...		0.080	0.020	2600	130	10	--	0.800	<0.100	
JUN 06...		0.290	--	5400	380	<1	--	0.300	<0.200	
AUG 13...		0.110	0.060	2500	120	<1	0.03	0.800	0.200	

SURFACE-WATER SITES---Continued

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CaCO3)
OCT 11...	0930	6300	98	7.3	21.5	21	8.6	97	42	85	38
NOV 07...	1000	17300	114	7.6	17.0	33	9.9	103	>600	>1000	46
DEC 05...	1215	6000	86	7.2	10.0	20	11.8	105	85	59	30
JAN 10...	1100	58000	95	6.8	9.0	28	11.2	96	310	410	37
FEB 20...	1400	128000	64	7.0	13.0	37	8.8	83	>600	250	27
MAR 28...	1000	12800	79	7.0	15.5	15	10.9	108	27	K15	28
MAY 02...	1000	7690	131	7.6	25.5	2.3	9.1	111	K9	27	39
MAY 24...	1025	25500	--	--	--	28	--	--	--	--	46
JUN 07...	0955	11800	115	7.1	25.0	26	8.4	102	K97	58	45
JUL 18...	1000	3500	122	--	29.0	11	--	--	34	30	38
AUG 14...	0900	220	149	7.3	29.0	7.4	7.3	--	K3	K6	49
SEP 11...	1100	385	173	7.2	30.0	3.0	6.7	89	K7	K2	55

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CaCO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 11...	13	1.4	3.0	14	0.2	2.0	22	22	11	4.6	0.10
NOV 07...	16	1.5	4.3	16	0.3	2.0	44	36	11	7.6	0.10
DEC 05...	9.5	1.5	2.9	16	0.2	2.1	24	19	10	4.9	<0.10
JAN 10...	13	0.98	2.5	12	0.2	2.0	33	27	9.0	3.9	0.10
FEB 20...	9.2	0.87	1.7	12	0.1	1.4	18	14	6.0	2.4	0.10
MAR 28...	9.2	1.3	2.2	14	0.2	1.1	18	15	8.3	3.3	0.10
MAY 02...	13	1.6	4.9	21	0.3	1.3	29	24	11	9.3	0.10
MAY 24...	16	1.5	4.4	17	0.3	1.5	--	--	8.9	8.3	<0.10
JUN 07...	16	1.3	3.5	14	0.2	1.7	31	25	8.4	5.9	<0.10
JUL 18...	13	1.4	5.7	24	0.4	1.6	35	29	8.3	8.4	<0.10
AUG 14...	17	1.6	8.5	26	0.5	1.8	33	27	10	15	<0.10
SEP 11...	19	1.9	12	31	0.7	2.0	50	41	14	19	<0.10

SURFACE-WATER SITES--Continued

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 11...	7.6	57	55	0.08	970	0.190	0.050	0.50	0.070	0.010	0.010
NOV 07...	6.9	71	72	0.10	3320	0.160	0.020	0.50	0.140	0.020	0.030
DEC 05...	7.7	61	50	0.08	988	<0.100	0.040	0.40	0.070	<0.010	<0.010
JAN 10...	6.3	--	55	0.07	8560	0.120	0.040	0.60	0.120	0.020	0.030
FEB 20...	5.6	61	37	0.08	21100	<0.100	0.030	0.50	0.090	<0.010	<0.010
MAR 28...	5.7	50	40	0.07	1730	0.100	<0.010	0.30	0.050	0.010	<0.010
MAY 02...	4.0	71	60	0.10	1470	0.100	0.010	0.60	0.070	0.010	<0.010
MAY 24...	5.3	74	70	0.10	5090	0.500	0.070	0.70	0.100	0.020	<0.010
JUN 07...	5.8	81	60	0.11	2580	0.500	0.010	0.70	0.080	0.030	0.050
JUL 18...	4.0	72	60	0.10	680	<0.100	0.030	0.50	0.060	<0.010	<0.010
AUG 14...	4.4	91	75	0.12	54.1	<0.100	0.040	0.40	0.030	<0.010	<0.010
SEP 11...	4.3	102	97	0.14	106	<0.100	<0.010	0.50	<0.010	<0.010	0.020

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 11...	30	<1	24	<0.5	<1.0	<1	<3	2	170	<1
FEB 20...	150	<1	19	<0.5	4.0	<5	<3	<10	220	<10
MAY 02...	20	<1	22	0.6	2.0	<1	<3	1	83	<1
AUG 14...	<10	<1	23	<0.5	<1.0	<1	<3	1	8	<1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 11...	<4	4	0.1	<10	1	<1	<1.0	83	<6	28
FEB 20...	<4	29	<0.1	<10	<10	<1	<1.0	59	<6	44
MAY 02...	<4	<1	0.1	<10	<1	<1	<1.0	99	<6	7
AUG 14...	<4	<1	<0.1	<10	1	<1	<1.0	110	<6	20

SURFACE-WATER SITES--Continued

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
11...	0930	--	6300	28	476
DEC					
05...	1215	--	6000	17	275
JAN					
08...	1110	16.0	66000	142	25300
08...	1100	32.0	66000	148	26400
08...	1055	48.0	66000	162	28900
08...	1050	64.0	66000	146	26000
08...	1045	80.0	66000	105	18700
09...	0940	16.0	61200	130	21500
09...	0950	32.0	61200	134	22100
09...	0955	48.0	61200	122	20200
09...	1000	64.0	61200	138	22800
09...	1010	80.0	61200	118	19500
10...	1010	16.0	55400	69	10300
10...	1020	32.0	55400	69	10300
10...	1025	48.0	55400	71	10600
10...	1030	64.0	55400	75	11200
10...	1035	80.0	55400	73	10900
10...	1100	--	58000	92	14400
21...	0945	16.0	54600	184	27100
21...	1000	32.0	54600	190	28000
21...	1005	48.0	54600	188	27700
21...	1010	64.0	54600	206	30400
21...	1020	80.0	54600	148	21800
21...	1250	16.0	70000	193	36500
21...	1255	32.0	70000	192	36300
21...	1300	48.0	70000	200	37800
21...	1310	64.0	70000	216	40800
21...	1320	80.0	70000	193	36500
22...	1055	16.0	79800	283	61000
22...	1110	32.0	79800	263	56700
22...	1225	48.0	79800	295	63600
22...	1230	64.0	79800	278	59900
22...	1240	80.0	79800	262	56500
23...	1030	16.0	70200	144	27300
23...	1035	32.0	70200	145	27500
23...	1045	48.0	70200	149	28200
23...	1055	64.0	70200	152	28800
23...	1100	80.0	70200	162	30700
24...	0935	16.0	58700	99	15700
24...	0950	32.0	58700	92	14600
24...	1000	48.0	58700	116	18400
24...	1005	64.0	58700	88	13900
24...	1015	80.0	58700	116	18400
FEB					
20...	1230	16.0	131000	62	21900
20...	1240	32.0	131000	65	23000
20...	1250	48.0	131000	52	18400
20...	1300	64.0	131000	58	20500
20...	1310	80.0	131000	59	20900
20...	1400	--	128000	74	25600
MAR					
28...	1000	--	12800	19	657
MAY					
02...	1000	--	7690	9	187
24...	1025	--	25500	52	3580
JUN					
07...	0955	--	11800	48	1530
JUL					
18...	1000	--	3500	24	227
AUG					
14...	0900	--	220	6	3.6
SEP					
11...	1100	--	385	10	10

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
JAN											
23...	1115	25.0	0	0	1	11	13	15	18	30	72
23...	1125	50.0	0	0	1	19	35	39	46	65	96
23...	1135	75.0	0	1	17	99	100	100	100	100	100
AUG											
14...	0910	25.0	2	7	20	32	34	37	43	60	96
14...	0920	50.0	0	0	5	12	18	24	33	61	93
14...	0930	75.0	<1	1	11	91	97	98	98	99	100

SURFACE-WATER SITES--Continued

02467001 TOMBIGBEE RIVER BELOW DEMOPOLIS LOCK AND DAM, AL

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)			
DEC										
05...	1520	--	205	7.6	12.5	11.3	106			
05...	1521	5.00	205	7.5	12.5	11.3	--			
05...	1522	10.0	205	7.5	12.5	11.3	--			
05...	1523	15.0	206	7.5	12.5	11.3	--			
05...	1524	20.0	206	7.5	12.5	11.3	--			
05...	1525	25.0	206	7.5	12.5	11.3	--			
05...	1526	28.0	208	7.5	12.5	11.3	--			
MAR										
28...	1431	--	110	6.9	16.0	10.9	--			
28...	1432	5.00	111	6.9	16.0	10.8	--			
28...	1433	10.0	112	6.9	16.0	10.8	--			
28...	1434	15.0	112	6.9	16.0	10.8	--			
28...	1435	20.0	111	6.9	16.0	10.8	--			
28...	1436	25.0	110	6.9	16.0	10.7	--			
JUN										
07...	1300	--	139	7.2	25.5	8.7	106			
07...	1301	5.00	139	7.2	25.5	8.6	--			
07...	1302	10.0	139	7.2	25.5	8.6	--			
07...	1303	15.0	139	7.2	25.5	8.5	--			
07...	1304	20.0	139	7.2	25.5	8.5	--			
07...	1305	24.0	139	7.2	25.5	8.5	--			
AUG										
14...	1345	--	182	7.8	31.5	5.9	80			
14...	1346	5.00	183	7.6	31.0	3.4	--			
14...	1347	10.0	183	7.6	31.0	2.6	--			
14...	1348	14.0	183	7.6	31.0	2.6	--			
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
DEC										
05...	1520	19400	20	12	20.5	--	170	17	6.8	
MAR										
28...	1430	14100	60	25	14.5	--	41	10	3.1	
JUN										
07...	1300	21500	40	32	14.5	1.3	50	16	2.9	
AUG										
14...	1345	2410	5	4.6	24.2	--	32	17	4.5	
DATE	TIME	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)
DEC										
05...	37	44	6.0	0.20	116	15	0.420	0.060	0.37	
MAR										
28...	20	21	2.9	<0.10	71	30	0.380	0.050	<0.20	
JUN										
07...	31	20	6.4	0.10	88	43	0.740	0.030	0.54	
AUG										
14...	42	28	9.6	0.10	104	13	0.170	0.030	0.86	
DATE	TIME	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	PHENOLS TOTAL (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	
DEC										
05...		0.060	0.030	680	60	<1	--	0.900	<0.100	
MAR										
28...		0.040	0.020	1900	100	4	--	1.70	<0.100	
JUN										
07...		0.080	0.020	1400	70	<1	--	1.00	<0.100	
AUG										
14...		0.050	0.030	460	60	--	0.04	1.40	0.100	

SURFACE-WATER SITES--Continued

02469525 TOMBIGBEE RIVER NEAR NANAFALIA, AL

DATE	TIME	SAMPLE LOCAT. X-SECT. LOOKING UPSTRM. (% FROM R BANK)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)
NOV				
07...	1030	25.0	E20000	27
07...	1035	50.0	E20000	32
07...	1040	75.0	E20000	30
DEC				
21...	1010	25.0	E24000	63
21...	1015	50.0	E24000	83
21...	1020	75.0	E24000	72
FEB				
02...	1225	25.0	E80000	91
02...	1230	50.0	E80000	167
02...	1235	75.0	E80000	172
APR				
26...	1340	25.0	E15000	32
26...	1345	50.0	E15000	30
26...	1350	75.0	E15000	31
JUN				
07...	0800	25.0	E25000	60
07...	0755	50.0	E25000	71
07...	0750	75.0	E25000	84
JUL				
18...	1650	25.0	E7000	16
18...	1655	50.0	E7000	15
18...	1700	75.0	E7000	17

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, AL

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT												
18...	1300	14800	155	7.4	23.0	11	9.1	106	23	K13	52	15
FEB												
15...	1045	140000	96	7.3	13.0	80	9.8	93	520	280	38	12
APR												
26...	1445	16800	<21	7.6	21.5	21	9.5	--	K25	K18	41	12
AUG												
16...	1040	3450	236	7.2	31.0	12	7.3	--	K9	K7	68	19

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
OCT											
18...	3.4	11	31	0.7	2.4	29	29	25	9.8	0.10	6.2
FEB											
15...	1.9	3.2	15	0.2	1.5	30	25	13	2.1	0.10	6.1
APR											
26...	2.7	7.7	28	0.5	1.3	31	26	14	8.7	<0.10	6.1
AUG											
16...	5.0	20	38	1	2.2	--	30	40	25	0.30	2.6

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)
OCT											
18...	108	89	0.15	4320	0.330	0.030	0.40	0.060	0.020	0.020	40
FEB											
15...	72	56	0.10	27200	0.200	0.040	0.50	0.120	<0.010	<0.010	70
APR											
26...	95	69	0.13	4310	0.200	0.020	0.30	0.050	<0.010	<0.010	60
AUG											
16...	138	134	0.19	1290	0.300	0.050	0.30	0.060	0.020	<0.010	30

SURFACE-WATER SITES--Continued

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, AL--Continued

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 18...	<1	28	<0.5	<1.0	2	<3	2	130	<1	<4	7
FEB 15...	<1	19	<0.5	1.0	<5	<3	<10	96	<10	<4	15
APR 26...	<1	29	<0.5	<1.0	<1	<3	2	250	2	<4	4
AUG 16...	<1	35	<0.5	<1.0	<1	<3	2	110	1	5	5

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, DIS- SUS- PENDEED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 18...	<0.1	<10	1	<1	<1.0	93	<6	110	15	599	96
FEB 15...	<0.1	<10	<10	<1	<1.0	68	<6	22	251	94900	69
APR 26...	0.2	<10	1	<1	<1.0	96	<6	<3	14	635	96
AUG 16...	<0.1	<10	1	<1	<1.0	110	<6	78	13	121	99

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
FEB 15...	0.6	0.5	2.1	0.7	1.8	0.6	0.07	<0.01
AUG 16...	<0.4	0.7	2.5	0.7	2.0	0.6	--	--

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	187	154	162		---	---	142	116			
2	121	195	160	170		105	114	148	115			
3	120	196	155	152		116	109	146	143			
4	116	191	140	170		120	115	142	145			
5	115	185	150	176		118	122	140	131			
6	113	190	140	183		134	124	145	164			
7	115	205	185	161		124	---	149	122			
8	118	205	169	174		115	---	150	114			
9	114	205	147	140		119	---	157	133			
10	110	174	143	132		121	130	154	140			
11	110	154	145	134		125	123	152	146			
12	100	165	158	125		115	117	160	154			
13	97	177	135	128		117	127	140	150			
14	---	171	134	110		114	125	150	164			
15	94	170	---	126		---	131	151	171			
16	108	171	---	125		100	125	157	165			
17	122	174	---	---		109	120	180	166			
18	142	176	145	---		119	141	179	165			
19	208	184	144	---		118	136	175	154			
20	170	176	155	---		118	135	176	165			
21	170	140	142	---		118	135	174	164			
22	167	165	114	---		112	138	172	172			
23	165	140	161	---		112	138	183	167			
24	---	142	112	---		112	141	164	172			
25	167	165	160	---		116	140	156	177			
26	114	188	154	---		110	151	179	159			
27	204	177	160	---		---	136	171	---			
28	160	160	144	---		---	135	164	---			
29	156	153	140	---		113	142	150	---			
30	165	150	150	---		114	140	150	---			
31	161	---	151	---		114	---	136	---			
MEAN	136	174	148			116	130	158	151			

SURFACE-WATER SITES--Continued

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, AL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.0	20.0	14.0	7.0		---	---	24.0	25.0			
2	24.0	20.0	14.0	8.0		15.0	18.0	24.0	25.0			
3	24.0	20.0	13.0	7.0		14.5	18.0	24.0	26.0			
4	23.0	20.0	13.0	8.0		14.0	18.0	25.0	26.0			
5	22.5	19.0	13.0	9.0		14.5	18.0	25.0	26.0			
6	23.0	19.0	13.0	9.5		14.0	19.0	24.0	26.0			
7	23.0	19.0	13.0	10.0		14.0	---	25.0	27.0			
8	23.0	19.0	12.5	10.0		15.0	---	24.0	27.0			
9	23.0	19.0	13.0	11.0		15.0	---	25.0	27.0			
10	23.0	19.0	12.5	11.0		15.0	18.0	25.0	27.5			
11	23.0	17.5	13.0	11.0		16.0	18.0	24.0	28.0			
12	23.0	17.0	11.0	10.0		16.0	18.0	24.5	28.0			
13	23.0	18.0	10.0	10.0		17.0	18.0	23.5	28.0			
14	---	19.0	11.0	10.5		18.0	18.0	24.0	29.0			
15	23.0	19.0	---	10.0		---	18.5	24.0	29.0			
16	23.0	18.0	---	11.0		17.0	19.0	24.0	29.0			
17	23.0	18.0	---	---		17.0	19.0	24.0	29.0			
18	22.0	18.0	9.0	---		17.0	19.0	24.0	29.0			
19	21.0	17.0	9.0	12.0		17.0	20.0	24.0	29.0			
20	21.0	19.0	9.0	13.0		16.0	20.0	24.0	30.0			
21	21.0	18.0	8.5	13.0		16.0	20.0	26.0	30.0			
22	21.0	18.0	7.0	14.0		16.0	20.0	25.0	30.0			
23	21.0	17.0	6.0	---		17.0	21.0	25.0	29.5			
24	---	16.0	6.0	---		17.0	21.0	25.0	30.5			
25	21.0	15.0	6.0	---		17.0	22.0	25.0	31.0			
26	20.0	15.0	6.0	---		17.0	22.0	26.0	---			
27	21.0	15.0	7.0	---		---	22.0	25.5	---			
28	20.5	14.5	7.0	---		---	22.5	24.0	---			
29	20.0	14.0	7.0	---		17.5	23.0	25.0	---			
30	20.0	14.0	8.0	---		18.0	24.0	25.0	---			
31	20.0	---	8.0	---		18.0	---	25.0	---			
MEAN	22.0	17.5	10.0	---		16.0	20.0	24.5	28.0			