

WATER-RESOURCES DATA FOR THE VALDOSTA AREA, SOUTH-CENTRAL GEORGIA, 1961-93

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CONTENTS

Abstract	1
Introduction	1
Purpose and scope	2
Surface-water site and well-numbering system	2
Data collection and presentation	4
References	4

ILLUSTRATIONS

Plate	1. Map showing water-quality sampling sites, stream-gaging stations, and ground-water measurement sites, Valdosta area, Georgia [in pocket in back of report]
Figure	1. Map showing the location of study area 3
Figures	2-3. Graphs showing: 2. Discharge of Withlacoochee River near Bemiss, Ga. (02317748), and at McMillan Road near Bemiss, Ga. (023177483), (WR-4), February 1979 to September 1993 5 3. Water level in the Upper Floridan aquifer at well 19F039, Valdosta, Ga., February 1979 to September 1993 6
Figures	4-9. Maps showing potentiometric surface of the Upper Floridan aquifer in the Valdosta, Georgia, area: 4. July 1988 7 5. September 1988 8 6. October 1990 9 7. June 3, 4, 1991 10 8. October 1991 11 9. March 30 to April 3, 1993 12

TABLES

Table	1. Site data for surface-water-quality sites 13
	2. Site data for wells having water-quality data 14
	3. Miscellaneous water-quality data for surface-water sites in the Valdosta area, Georgia June 1988 to June 1991 17
	4. Miscellaneous field measurements and chloride and isotope data for the Withlacoochee and Little Rivers in Georgia 19
	5. Concentrations of dissolved chlorofluorocarbon-11, -12, and -113 at surface-water sites in Lowndes and adjacent counties, Georgia, June 1991 to October 1993 20
	6. Summary of water-quality data, Withlacoochee River above Valdosta, Georgia (02317749) (WR-5), 1974-92 22
	7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993 24
	8. Trace-metal concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1992 36
	9. Herbicide and insecticide concentrations for wells sampled in the Valdosta, Georgia, area 1979-84 44
	10. Concentration of industrial compounds for wells sampled in the Valdosta, Georgia, area 1979-84 48
	11. Concentration of chlorofluorocarbon-11, -12, -113 in ground water from Lowndes and adjacent counties, Georgia, June 1991 to May 1993 50
	12. Concentration of isotopes in ground water from Lowndes and adjacent counties, Georgia, November 1980 to May 1993 54
	13. Concentration of dissolved gases and miscellaneous water-quality data for selected wells open to the Upper Floridan aquifer in the Valdosta area, Georgia, October 1992 to October 1993 57

CONVERSION FACTORS, ACRONYMS, SYMBOLS, DEFINITIONS OF UNITS, AND VERTICAL DATUM

Conversion Factors

<u>Multiply</u>	<u>by</u>	<u>to obtain</u>
mile (mi)	1.609	kilometer
square mile (mi ²)	2.590	square kilometer
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second
tritium units (TU)	3.2	picocuries per liter

Temperature in degrees Fahrenheit (° F) can be converted to degrees Celcius

$$^{\circ} \text{C} = 5/9 (^{\circ} \text{F} - 32)$$

Acronyms and Symbols

BOD	Biochemical Oxygen Demand, 5-day
CaCO ₃	Calcium Carbonate
CFC-11	Ohlorofluorocarbon-11
CFC-12	Chlorofluorocarbon-12
CFC-113	Chlorofluorocarbon-113
EPD	Georgia Department of Natural Resources Environmental Protection Division
H-2/H-1	Hydrogen Isotopic Ratio
MPN	Most Probable Number
NTU	Nephelometric Turbidity Unit
O-18/O-16	Oxygen Isotopic Ratio
SiO ₂	Silicon Dioxide
TU	Tritium Unit
USGS	U.S. Geological Survey

Definition of Units

deg. C	Degrees Celcius
ft ³ /s	cubic foot per second
mi ²	square mile
mg/L	Milligrams per liter
per mil	Parts per thousand
pg/kg	Picogram per kilogram
piC/L	Picocuries per liter (1 TU equals 3.2 piC/L)
ug/L	Micrograms per liter
uS/cm	Microsiemens per centimeter

Vertical Datum

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

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ABSTRACT

The Upper Floridan aquifer is the sole source of water supply for the city of Valdosta, Ga., and much of the surrounding area. Users and water-resources managers and developers are concerned about the quality of water in the aquifer. The water quality of a large part of the Upper Floridan aquifer in the Valdosta area is affected by direct recharge of water from the Withlacoochee River to the aquifer through sinkholes in the river channel north of Valdosta. Furthermore, because the Withlacoochee River receives little filtration as it recharges the aquifer in this area, ground water might be vulnerable to contamination as a result of human activities within the Withlacoochee River basin.

Stream-discharge and water-quality data from 17 surface-water sites and ground-water-quality data from 111 wells in the vicinity of Valdosta, Ga., are presented for the period 1961-93. Also, ground-water-level data for the Upper Floridan aquifer in the Valdosta area are presented in a series of potentiometric-surface maps. The water-resources data were collected mostly in Lowndes County in the vicinity of Valdosta and lesser amounts were collected in surrounding Berrien, Brooks, Cook, Echols, and Lanier Counties.

INTRODUCTION

The Upper Floridan aquifer is the sole source of water supply for the city of Valdosta, Ga., and much of the surrounding area. The aquifer yields an ample supply of water; however, there are concerns by users and water-resources managers and developers about the quality of water in the aquifer. The water quality of a large part of the Upper Floridan aquifer in the Valdosta area is affected by direct recharge of water from the Withlacoochee River to the Upper Floridan aquifer through sinkholes in the river channel north of Valdosta. Furthermore, because the Withlacoochee River receives little filtration as it recharges the aquifer in this area, ground water in the Valdosta area might be vulnerable to contamination as a result of human activities within the Withlacoochee River basin.

Concern about the quality and quantity of ground water in the Valdosta area has resulted in several water-resources investigations conducted during the period 1974 to 1993 by the U.S. Geological Survey (USGS) in cooperation with other Federal, State and local agencies. In cooperative studies with the city of Valdosta, Krause (1976) reported on the occurrence and distribution of ground water affected by recharge of water from the Withlacoochee River. McConnell and Hacke (1993) reported on the hydrogeology, water quality, and water-resources development potential in the Valdosta area. Currently (1990-94), the USGS, in cooperation with the city of Valdosta, is conducting an investigation to age-date ground water in the Valdosta area using chlorofluoro-carbons and other tracers of ground-water flow. In yet another cooperative study between the USGS and the Georgia Department of Natural Resources, Environmental Protection Division (EPD), Georgia Geologic Survey, Krause (1979) reported on the geohydrology of Brooks, Lowndes, and Echols Counties in the vicinity of Valdosta, Ga.

In addition to these cooperative investigations, the USGS is conducting ongoing cooperative statewide data-collection programs which includes Valdosta and the surrounding area. Water-quality and stream-discharge data are collected monthly at a site on the Withlacoochee River above Valdosta as part of an ongoing water-quality, trend-monitoring program with EPD, Water Protection Branch. Stream discharge of the Withlacoochee River above Valdosta and ground-water levels in a shallow aquifer and in several wells open to the Upper Floridan aquifer are continuously monitored as part of a data-collection program with the city of Valdosta. Water-quality and stream-discharge data (Stokes and McFarlane, 1994) and ground-water-level data for sites in the Valdosta area (Joiner and Cressler, 1994) are published annually in USGS water-resources data and ground-water conditions reports for Georgia. Additional information can be obtained from the District Chief, USGS, Peachtree Business Center, 3039 Amwiler Road, Suite 130, Atlanta, GA 30360-2824.

The cooperative studies and data-collection programs have produced a vast amount of water-quality, stream-discharge, and water-level data. Part of the data currently appears in basic-data reports and in interpretive reports. Generally, the interpretive reports do not report all data that were collected as a part of a study. Thus, compiling and documenting the data in a single publication will provide a useful water-resources reference for the Valdosta area.

Purpose and Scope

This report presents water-quality, stream-discharge, and ground-water-level data collected by the USGS from August 1961 to September 1993 in Lowndes and surrounding counties (fig. 1). Most of the data presented were collected in Lowndes County in the vicinity of the city of Valdosta and a lesser amount of data were collected in adjacent Berrien, Brooks, Cook, Echols, and Lanier Counties. The frequency of data collection and the types of water-quality analysis were substantially greater from 1988-93 than during previous years because of water-resources investigations conducted in cooperation with the city of Valdosta during that period.

Surface-Water Site and Well-Numbering System

Surface-water sites were assigned a three-character site reference number that identifies the sites on the study-area map. The sites also may have a station number listed in the data tables. The station number is a unique number that is assigned to surface-water stations according to downstream order. For example, the station number 02317749 (Withlacoochee River above Valdosta, Ga.), includes a two-digit part number "02", plus the downstream order number "317749".

Wells are numbered by a system based on USGS 7 1/2-minute quadrangle topographic maps. Each 7 1/2-minute map in Georgia has been given a number and letter designation beginning at the southwestern corner of the State. Numbers increase eastward through 39 and letters increase alphabetically northward through "Z", then become double-letter designations "AA" through "PP". The letters "I", "O", "II", and "OO" are not used. Wells inventoried in each quadrangle are numbered sequentially beginning with "1".



Figure 1. Location of study area.

DATA COLLECTION AND PRESENTATION

Data presented in this report were collected at 17 surface-water sites (2 lake and 15 stream sites) and 111 wells from 1961 through September 1993 (plate 1). Most of the water-quality data were collected in cooperation with the city of Valdosta; however, some water-quality and stream-discharge data for the Withlacoochee River above Valdosta (site number WR-5; station number 02317749) were collected in cooperation with EPD. Laboratory analyses of water samples were provided by both the USGS National Water-Quality Laboratory and EPD Water-Quality Laboratory. Analyses of water samples for chemical, isotopic, and dissolved gases concentrations, including chlorofluorocarbons collected from June 1988 through October 1993, were provided by L. Niel Plummer and Eurybiades Busenberg, USGS, Reston, Va.

Surface- and ground-water data are separated into tables of surface water (tables 1-5) and ground water (tables 7-13), grouped by data type, and arranged by sampling site and date. The period of data collection in the tables may be either for the entire period-of-record or for shorter periods of time associated with specific water-resources investigations. The reporting level of water-quality properties or constituent concentrations may vary during the period of data collection because of different analytical methodology used.

Basic records for long-term monitoring of stream-discharge and water-quality for the Withlacoochee River above Valdosta (Stokes and McFarlane, 1994) and ground-water-level data for the Upper Floridan aquifer (Joiner and Cressler, 1994) are not included in this report. However, stream-discharge and water-quality data for the Withlacoochee River above the sinkhole area are represented by a statistical summary of discharge and water-quality data for Withlacoochee River above Valdosta (WR-5) (table 6). Seasonal variation in stream discharge of the Withlacoochee River and water levels of the Upper Floridan aquifer are represented by graphs of long-term discharge for the Withlacoochee River at McMillan Road near Bemiss (WR-4) (fig. 2) and long-term water levels for well 19E039 (fig. 3). Seasonal variations in the potentiometric surface of the Upper Floridan aquifer are shown in figures 4 to 9 (Burgoon, 1991; Cressler, 1993; McConnell, 1993; and Peck, 1991).

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- Stokes, W.R., III, and McFarlane, R.D., 1994, Water resources data, Georgia, water year 1993: U.S. Geological Survey GA-93-1, 663 p.

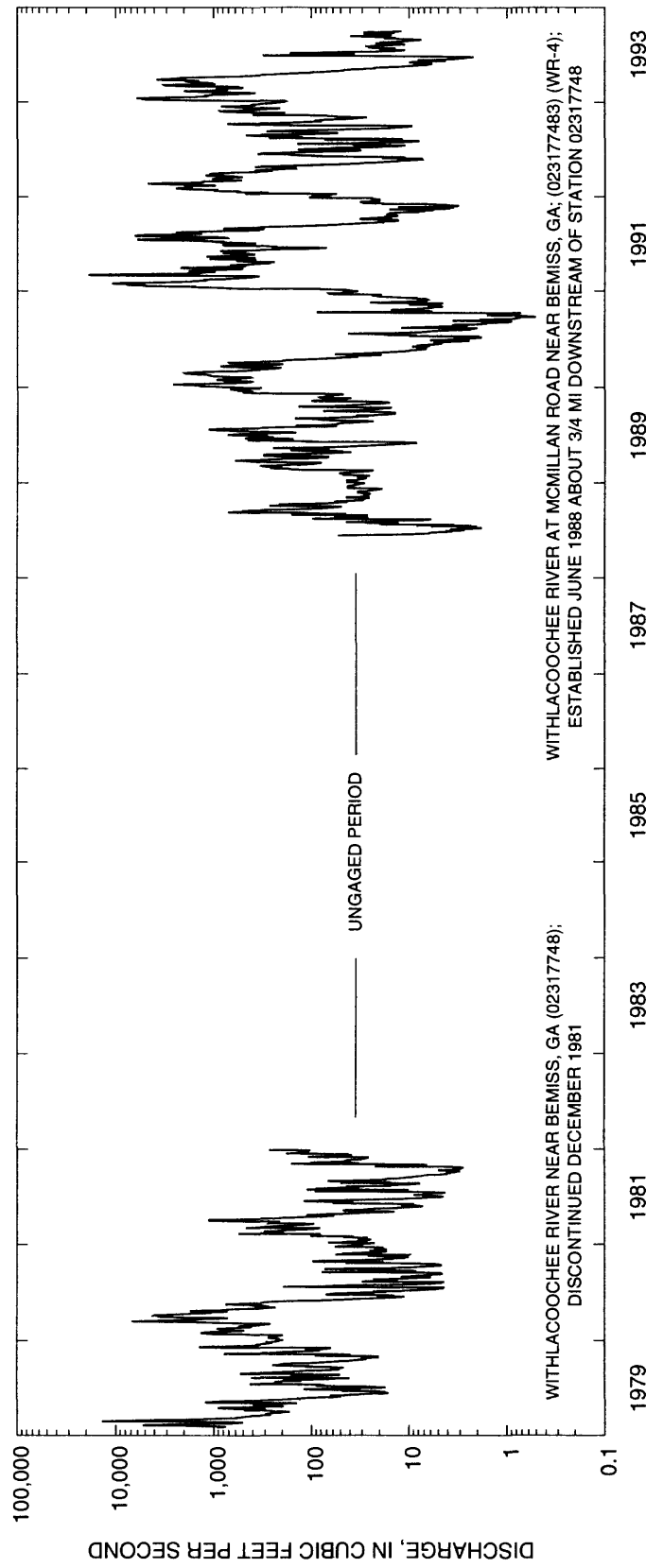


Figure 2. Discharge of Withlacoochee River near Bemiss, Ga. (02317748), and at McMillan Road near Bemiss, Ga. (023177483)(WR-4), February 1979 to September 1993.

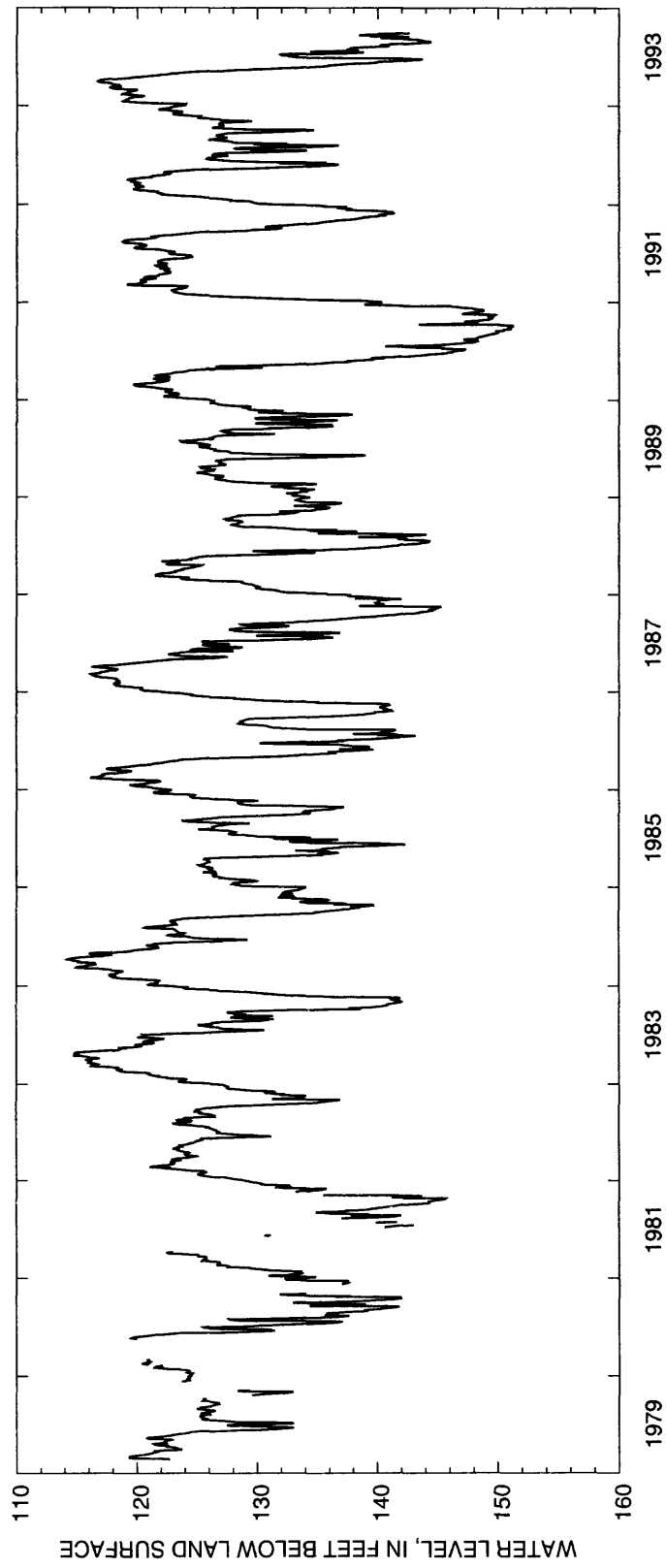


Figure 3. Water level in the Upper Floridan aquifer at well 19F039, Valdosta, Ga., February 1979 to September 1993.

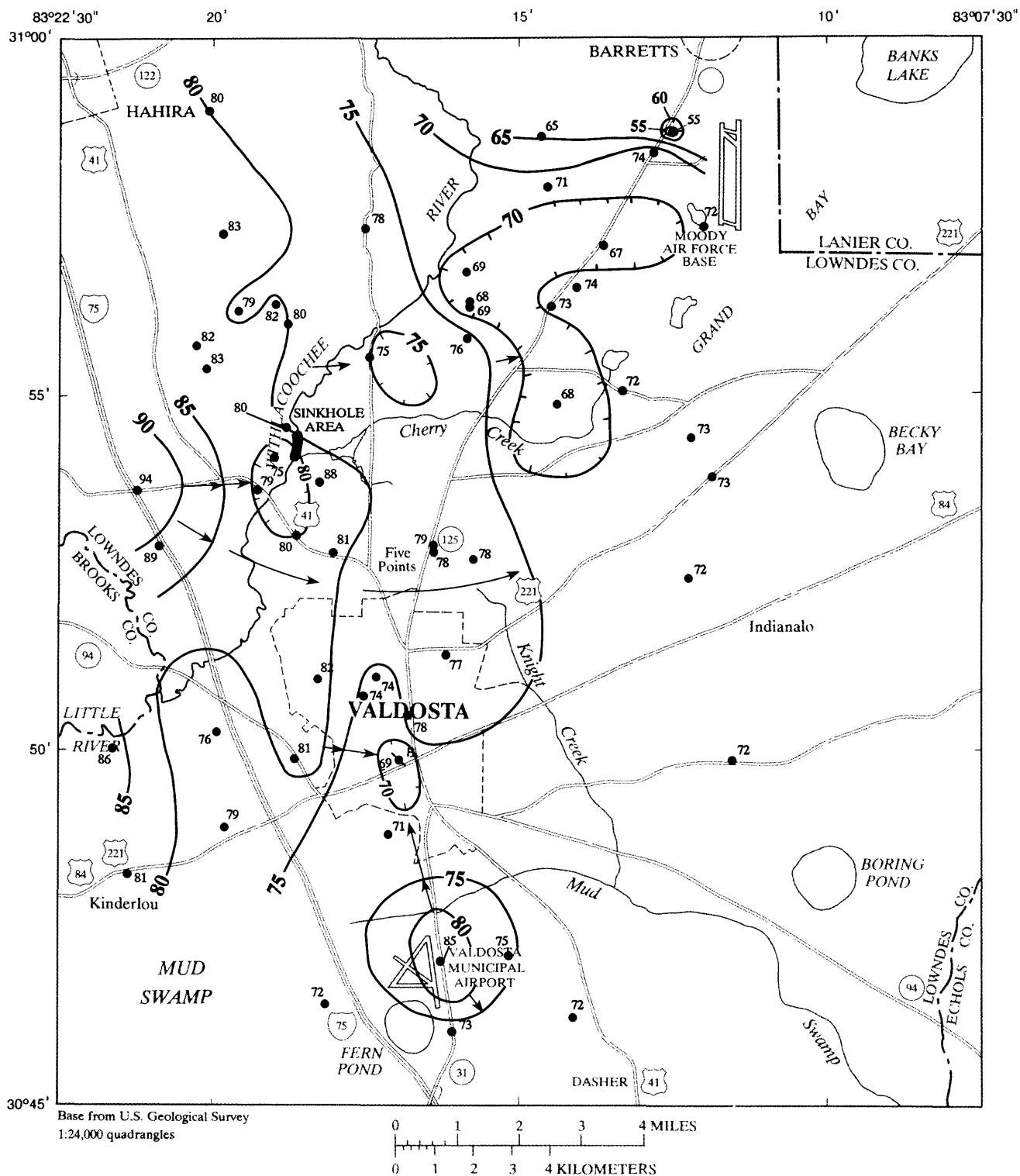
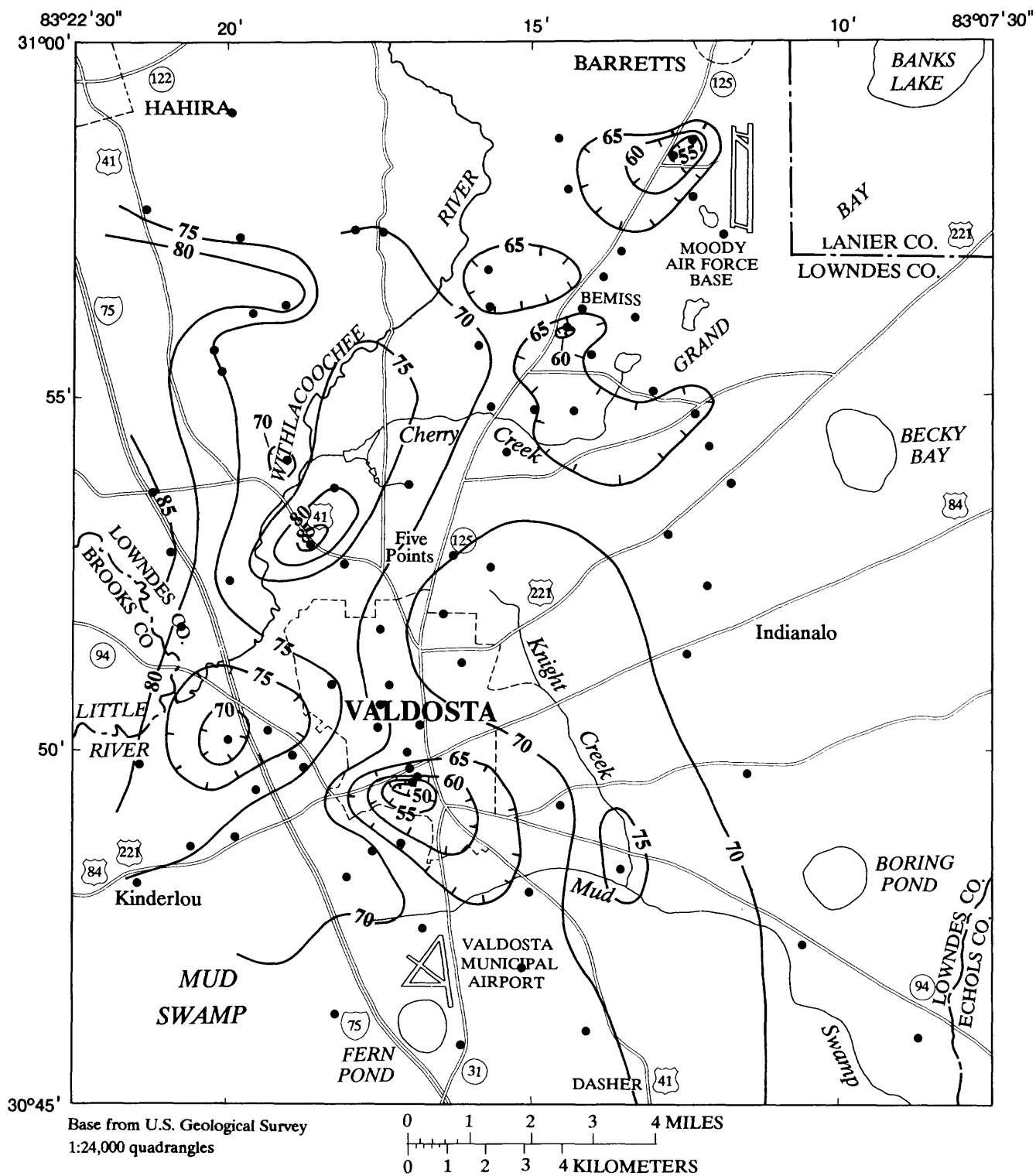


Figure 4. Potentiometric surface of the Upper Floridan aquifer, July 1988, in the Valdosta, Georgia area. From McConnell and Hacke (1993).



— 75 — POTENTIOMETRIC CONTOUR--Shows altitude at which water level would have stood in tightly cased wells. Dashed where approximately located. Hachures indicates depressions. Contour interval 5 feet. Datum is sea level

● WATER-LEVEL MEASUREMENT SITE

Figure 6. Potentiometric surface of the Upper Floridan aquifer, October 1990, in the Valdosta, Georgia area. From Burgoon (1991).

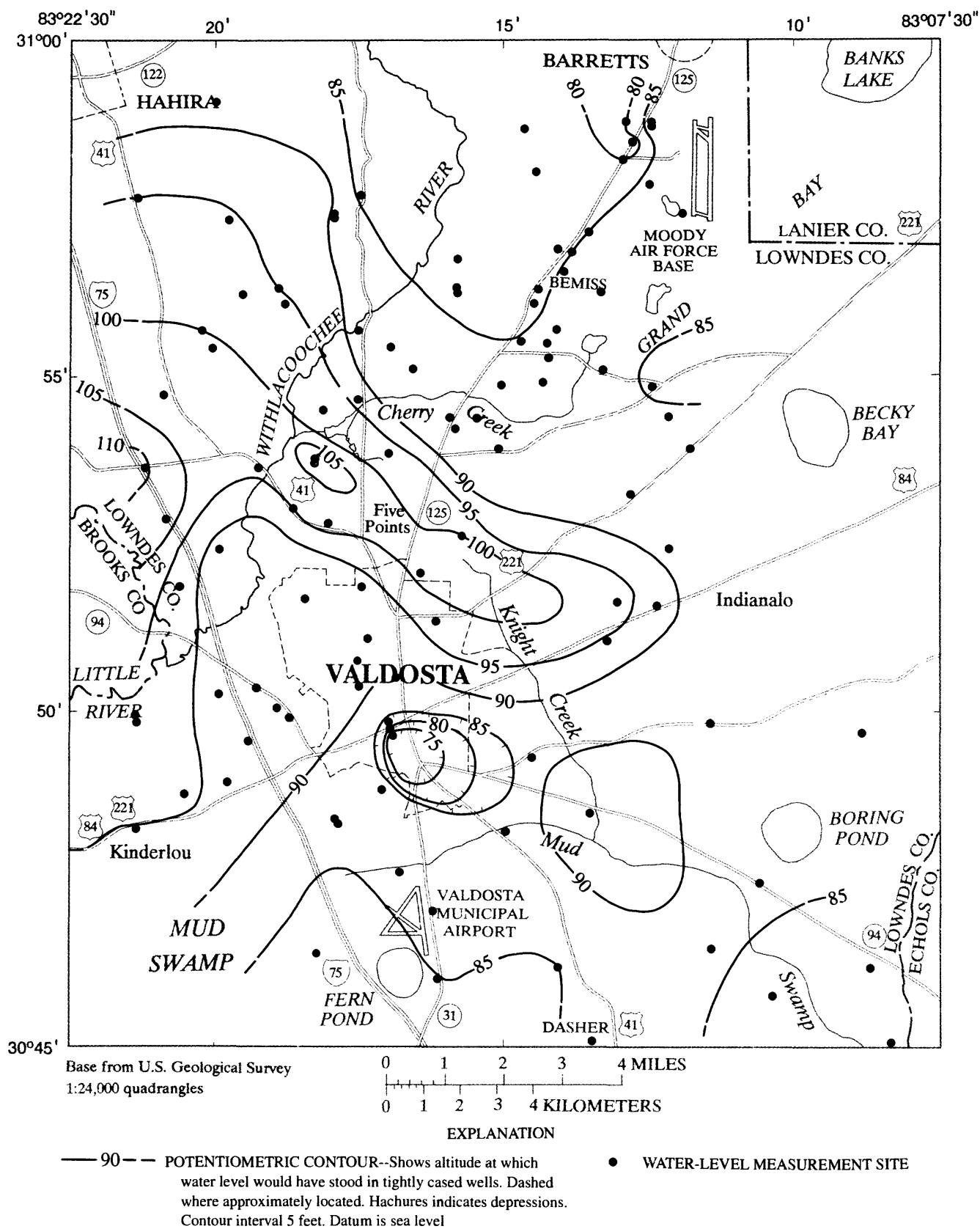


Figure 7. Potentiometric surface of the Upper Floridan aquifer, June 3, 4, 1991, in the Valdosta, Georgia area. From Cressler (1993).

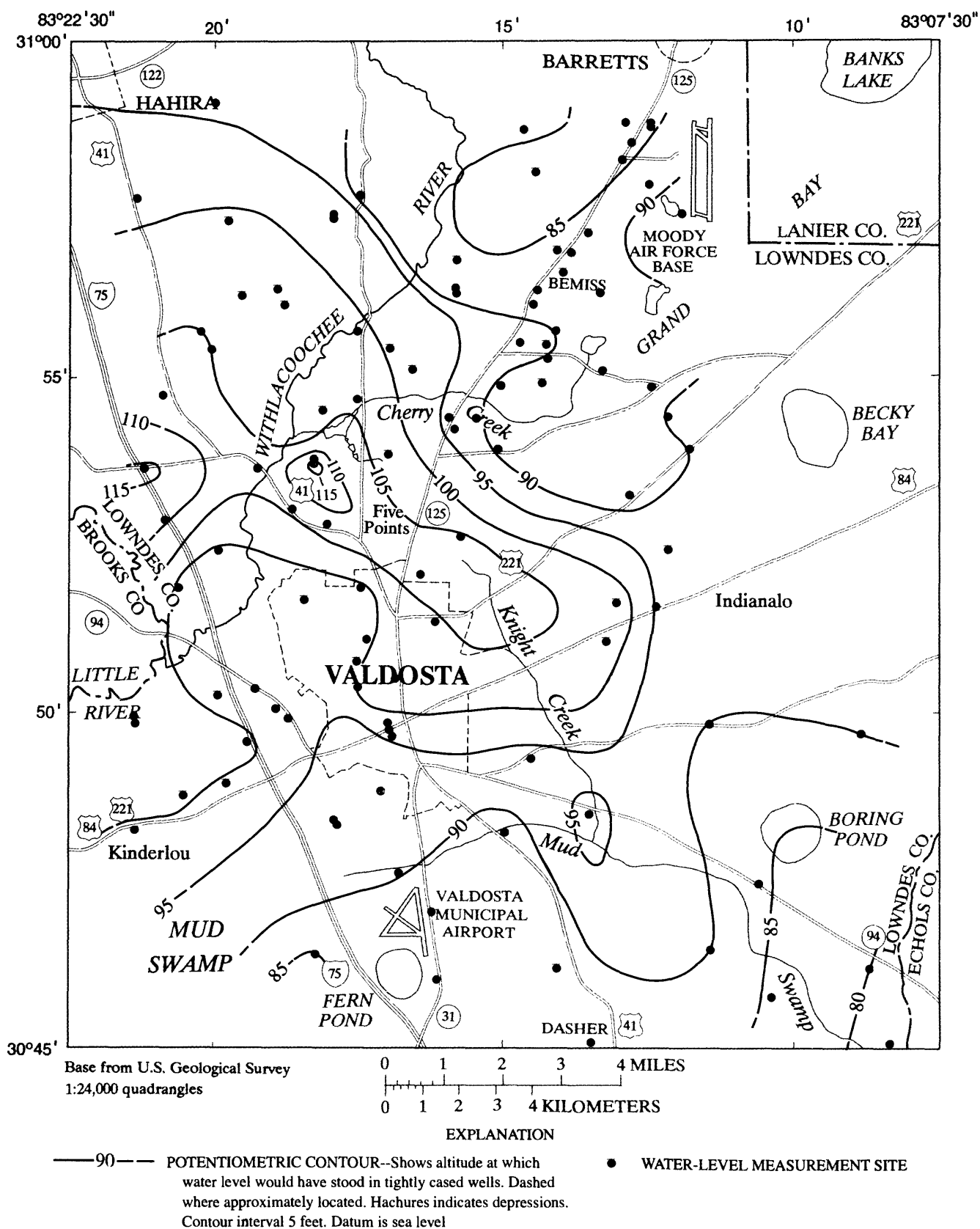


Figure 9. Potentiometric surface of the Upper Floridan aquifer, March 30-April 3, 1993, in the Valdosta, Georgia area. From Cressler (1993).

Table 1. Site data for surface-water-quality sites

Site number	Station name	[-, no station identification number]			Station location description
		Station identification number	Latitude	Longitude	
AR-1	Alapaha River at Statenville, Ga.	02317500	304214	0830200	Echols county, at State Route 94, 10.4 mi upstream from Alapahoochee River (Grand Bay Creek), 0.2 mi west of Statenville
LR-1	Little River (S-1780) near Hahira, Ga.	02318390	305823	0832633	Brooks-Lowndes county line, on county road S-1780, 4.5 mi west of Hahira, 4 mi east of Morven, Ga.
CI-1	Cherry Creek Lake near Valdosta, Ga.	-	305425	0831806	Lowndes county, near spillway, 0.6 mi upstream from confluence with Withlacoochee River, 3.5 mi north of Valdosta
CO-1	Cherry Creek Lake Outlet near Valdosta, Ga.	-	305420	0831808	Lowndes county, at spillway, 0.6 mi upstream from confluence with Withlacoochee River, 3.5 mi north of Valdosta
NR-1	New River at SR 125 near Eldorado, Ga. (1)	02317725	312138	0832542	Berrien county, at State Route 125, 3.5 mi east of Eldorado, 8 mi southeast of Tifton, Ga.
NR-2	New River at Lenox-Alapaha Road near Lenox, Ga.	-	311604	0832338	Cook-Berrien county line, at Lenox-Alapaha road, 4.5 mi east of Lenox
NR-3	New River at SR 76 near Nashville, Ga.	02317734	311037	0831920	Cook-Berrien county line, at State Route 76 bridge, 5 mi southwest of Nashville and 7.5 mi northeast of Adel, Ga.
HC-1	Hog Creek at Lenox-Alapaha Road near Alapaha, Ga. (1)	-	311921	0831748	Berrien county, 0.3 mi upstream from confluence with Mill Creek, 6 mi southwest of Alapaha
WI-1	Webb Lake near Hahira, Ga.	-	305830	0832507	Lowndes county, near spillway, 0.5 mi north of Morven Road, 2.8 mi southwest of Hahira
WO-1	Webb Lake Outlet near Hahira, Ga.	-	305829	0832508	Lowndes county, at spillway, 0.5 mi north of Morven Road, 2.8 mi southwest of Hahira
WR-1	Withlacoochee River at SR 125 near Nashville, Ga.	02317690	311257	0831626	Berrien county, at State Route 125 bridge, 1.5 mi west of Nashville
WR-2	Withlacoochee River at SR 37 near Adel, Ga.	02317737	310711	0831917	Cook-Berrien county line, at State Route 37 bridge, 6 mi east of Adel, 4.8 mi west of Nashville, Ga.
WR-3	Withlacoochee River at SR 122 near Hahira, Ga.	02317742	310048	0831807	Lowndes county, at State Route 122 bridge, 4.5 mi northeast of Hahira, 14 mi west of Lakeland, Ga.
WR-4	Withlacoochee River at McMillan Road near Bemiss, Ga.	023177483	305650	0831622	Lowndes county, at McMillan Road bridge, 2.3 mi downstream from Cat Creek and 3.0 mi northwest of Bemiss
WR-5	Withlacoochee River above Valdosta, Ga.	02317749	305557	0831722	Lowndes county, 1.5 mi upstream from Bay Branch and 7 mi north of Valdosta
WR-6	Withlacoochee River at sinkhole area above Valdosta, Ga.	-	305408	0831843	Lowndes county, 0.1 mi downstream from Cherry Creek, 0.75 mi upstream from U.S Highway 41
WR-7	Withlacoochee River at U.S Hwy 41 near Valdosta, Ga.	02317755	305333	0831908	Lowndes county, 1.1 mi downstream from Cherry Creek, 4.0 mi upstream from Sugar Creek and 5.3 mi north of Valdosta

(1) Site located north of area shown on plate 1.

Table 2. Site data for wells having water-quality data

[PW, public or business water supply; OBS-REC, observation well equipped with a recorder; D, domestic supply; altitude, in feet, refers to distance above sea level; -, no data]

Well number	Well name	Latitude	Longitude	Land surface altitude (feet)	Well depth (feet)	Casing depth (feet)	Number of samples	Well use	Year sampled
17F012	Daryl Dailey	305337	0833311	237	208	130	2	D	1988,1991
17H017	Reed Bingham State Park well 1	310946	0833220	213	230	192	3	PW	1965,1988,1989
18F014	V.R. Milley	305826	0832529	192	190	160	2	D	1988,1991
18F017	Bill Roundtree	305636	0832432	223	165	156	2	D	1988,1991
18J034	Lenox well 1	311622	0832743	284	550	-	1	PW	1988
19D042	Bill Young	304305	0831729	196	190	165	1	D	1988
19E004	Valdosta well 2	304944	0831657	210	367	168	4	PW	1974,1978,1979,1991
19E005	Valdosta well 3	305141	0831702	226	348	168	8	PW	1974,1978,1979,1980,1982-84
19E010	Valdosta well 4	304939	0831658	200	400	178	13	PW	1974,1978,1979,1980,1982-85,1988,1991
19E011	Valdosta well 5	304930	0831650	194	400	190	4	PW	1961,1974,1978,1979,1991
19E017	Lloyd Jackson	304823	0831757	223	251	216	3	D	1985,1988,1991
19E024	Robert Dees	304625	0831808	197	212	175	2	D	1974,1991
19E041	Valdosta well 7	305056	0831919	215	346	187	14	PW	1970,1974,1978,1979,1980,1982-85,1988,1991
19E055	David Waller	304956	0831841	197	230	189	2	D	1985,1991
19E056	Villa Valdosta	305121	0831611	198	235	175	1	PW	1991
19E057	Mac Tillman	305101	0831815	215	280	190	1	D	1991
19E061	WGOV Radio Station	304814	0832121	228	215	165	2	PW	1988,1991
19E063	J. Henley	304602	0831605	193	220	155	1	D	1985
19E067	South Georgia Cleaners	304735	0831647	185	250	190	2	PW	1985,1991
19E068	Howard Dasher	305139	0831828	192	225	199	2	D	1985,1991
19E069	Valdosta State University	305102	0831720	208	290	190	3	PW	1985,1988,1991
19E070	Jack Neece	304812	0831502	169	200	160	3	PW	1985,1988,1991
19E071	Russell Simpson	305111	0832123	142	109	48.5	3	D	1988,1991
19E072	Valdosta Sanitary Landfill	304927	0832138	200	-	-	1	PW	1988
19E073	Greg Small	304846	0832030	230	290	190	2	D	1988,1991
19E074	Valdosta Sewage Treatment Plant	304954	0832123	144	256	-	3	PW	1988,1991
19E075	Ray Carter	304933	0831926	222	240	180	1	D	1991
19E076	Jimmy Thompson	305226	0831955	140	200	160	1	D	1991
19E077	Minnie Robinson	305150	0832037	155	140	120	1	D	1991
19E081	Airport Beacon	304701	0831606	196	-	-	4	PW	1985,1980,1988,1991
19E087	Frank Creasy (shallow well)	304553	0831545	202	44	24	1	D	1991
19F011	E.L. Goff	305407	0831900	138	112	82	2	D	1985,1991
19F018	Valdosta Vocational School	305324	0832114	194	230	144	4	PW	1963,1974,1988,1991
19F020	Hahira, Georgia	305858	0832212	222	360	126	2	PW	1974,1991
19F031	Shell Service Station	305341	0832113	230	180	158	3	PW	1985,1988,1991
19F038	M.E. Thompson, Oak Street well 2	305316	0831645	215	300	180	5	PW	1974,1982,1983,1984
19F039	Valdosta well 8	305241	0831544	222	450	350	3	PW	1972,1974,1991
19F049	Church Of The King	305246	0831805	204	188	153	15	PW	1988,1991,1992,1993
19F053	J. Sherling	305254	0832052	192	180	155	1	D	1991
19F055	Valdosta well 11	305409	0831553	220	400	200	6	PW	1984,1985,1988,1989,1991

Table 2. Site data for wells having water-quality data--Continued

Well number	Well name	Latitude	Longitude	Land surface altitude (feet)	Well depth (feet)	Casing depth (feet)	Number of samples	Well use	Year sampled
19F057	Charles Woodall	305352	0831508	225	220	190	2	D	1985,1991
19F058	Mineola Motor Home Park	305416	0832024	195	195	60	1	PW	1985
19F061	Scott Holton	305542	0832015	193	207	130	3	PW	1988,1991
19F062	J.R. Ziegler	305645	0831551	156	160	130	3	D	1988,1991
19F063	Lucas (original owner)	305611	0831934	144	180	140	2	D	1988
19F064	Ronnie Gray	305523	0832006	195	200	165	1	D	1988
19F065	Pendleton	305600	0831847	171	160	130	1	D	1988
19F066	DR. Edwin Turner, M.D.	305433	0831848	147	130	120	2	D	1988,1991
19F068	David Heirs	305347	0831817	175	170	140	1	D	1988
19F069	Cherry Creek Baptist Church	305456	0831546	179	277	172	15	D	1988,1991,1992,1993
19F070	Penis Miller	305548	0831551	205	175	127	3	D	1988,1991
19F073	J.R. Ziegler (son's house)	305615	0831551	221	-	-	1	D	1988
19F075	Mrs. Charles Ray	305250	0831624	234	240	185	15	D	1988,1991,1992,1993
19F080	Mini K Market	305414	0832017	193	165	135	2	PW	1988,1991
19F081	James Miley, Jr.	305735	0832122	232	180	172	2	D	1988,1991
19F082	Grady Goodwin	305347	0831816	175	161	138	15	D	1988,1991,1992,1993
19F083	Andy Bonner	305737	0831728	193	132	124	2	D	1988,1991
19F085	Hubert Parrish	305719	0831758	188	96	86	1	D	1988
19F090	Hubert Parrish	305719	0831758	188	220	220	2	D	1988,1991
19F096	United Pentacostal Church	305420	0831554	198	190	160	2	PW	1988,1991
19F097	J.C. Cowart	305421	0831530	223	330	155	2	PW	1988,1991
19F100	Valdosta Deep Production well 1	305450	0831503	203	450	195	3	PW	1989,1991,1993
19F101	Valdosta Deep Observation well	305451	0831505	206	450	180	3	OBS-RC	1991,1993
19F104	Boy's Club	305349	0831700	201	200	180	1	PW	1991
19F106	Mrs. McConnell, Jr.	305426	0831807	161	-	158	14	D	1991,1992,1993
19F108	M.E. Thompson (Pineridge Subdivision)	305321	0831618	239	300	190	2	PW	1985,1991
19F110	Valdosta Deep Production well 3	305438	0831506	188	430	177	2	PW	1991,1993
19G015	Ozzie Brooks	310044	0831656	224	100	80	1	D	1991
19H026	Nashville well 2	311226	0831520	215	450	265	1	PW	1991
19H027	Nashville well 5	311235	0831540	226	550	180	1	PW	1991
20D030	Ray Corbett	304350	0830835	155	150	124	2	D	1988,1991
20E011	Deerwood Acres	304812	0831140	187	230	165	2	PW	1974,1991
20E013	Sidney Dasher	304949	0831131	192	240	155	2	D	1985,1988
20E016	R.C. Prine	304508	0831330	180	164	120	3	D	1985,1988,1991
20E017	Bobby Stracener	305136	0831306	220	250	190	3	D	1985,1988,1991

Table 2. Site data for wells having water-quality data--Continued

[PW, public or business water supply; OBS-REC, observation well equipped with a recorder;
D, domestic supply; altitude, in feet, refers to distance above sea level; -, no data]

Well number	Well name	Latitude	Longitude	Land surface altitude (feet)	Well depth (feet)	Casing depth (feet)	Number of samples	Well use	Year sampled
20E018	Terry Johnson	304640	0831352	185	190	-	3	D	1985,1988,1991
20E019	Mud Creek Treatment Plant	304831	0831334	180	280	169	3	PW	1985,1988,1991
20E021	Raphene Black	305227	0831213	211	210	160	1	D	1991
20E022	Elmer Warren (new home)	304921	0831433	195	201	183	1	D	1991
20E028	Jack Newton	304504	0830824	162	190	-	1	D	1991
20E030	Foster Fletcher	304659	0831222	173	190	-	1	D	1991
20E031	Mrs. H.B. George, Jr.	305005	0831008	190	192	157	1	D	1991
20E033	Don Weisenbaker	304545	0831026	153	155	-	1	D	1991
20F006	Moody U.S. Air Force well 3	305841	0831232	231	440	225	2	PW	1974,1991
20F007	Moody U.S. Air Force well 7	305724	0831159	212	195	182	3	PW	1974,1988,1991
20F009	L.A. Cobb	305602	0831431	248	278	223	1	D	1991
20F023	Moody Air Force Golf Course well	305843	0831259	239	257	200	1	PW	1991
20F024	Emory Sanders	305353	0831153	212	210	172	1	D	1985
20F028	John Morris	305231	0831314	212	208	177	2	D	1985
20F029	Donald Summers	305343	0831356	200	290	-	2	D	1985,1991
20F030	David Ulrich	305424	0831212	209	185	177	3	D	1988,1991
20F031	Charles Ray	305453	0831423	204	240	180	3	D	1988,1991
20F037	Bemiss Methodist Church	305615	0831430	245	270	200	3	PW	1988,1991
20F038	Frank Creasy	305647	0831354	232	280	190	2	D	1988,1991
20F043	William Prince	305451	0831227	219	250	195	14	D	1988,1991,1992,1993
20F044	J.D. Moore (U-Haul Rental)	305606	0831431	250	90	80	2	PW	1988,1991
20F045	James Walker	305611	0831324	199	260	200	1	D	1988
20F046	J. Gartman	305812	0831259	230	250	200	2	PW	1988,1991
20F047	(GTS Auto Service) Mr. Sturdivant	305540	0831406	229	260	200	1	D	1988
20F048	Academy Acres Subdivision	305342	0831500	226	350	200	1	PW	1988
20F051	Bill Davis-Northridge Subdivision	305645	0831407	244	315	206	1	PW	1991
20F052	Jerry Stoker (Pecan Subdivision)	305528	0831417	236	290	212	1	PW	1991
20F053	Lyndal Webb (shallow well)	305516	0831417	229	55	33	1	D	1991
20F054	Valdosta Deep Production well 6	305437	0831442	200	437	206	1	PW	1993
20F056	Valdosta Deep Production well 8	305450	0831449	222	465	205	1	PW	1993
20F058	Valdosta Deep Production well 7A	305436	0831431	188	420	203	1	PW	1993
20F059	Valdosta Deep Production well 2B	305450	0831440	208	442	188	1	PW	1993
20F060	Valdosta Deep Production well 4	305428	0831452	179	427	205	4	PW	1993
20F061	Valdosta Deep Production well 5	305424	0831435	183	432	191	1	PW	1993
20G016	Gill Curtis	310312	0831151	192	260	190	2	D	1988,1991
22F001	G.M. Zeigler	305616	0825953	187	220	170	2	D	1988,1991

Table 3. Miscellaneous water-quality data for surface-water sites in the Valdosta area, Georgia, June 1988 to June 1991

[-, no data; <, less than; E, estimated]

Site number	Station name	Date	Time	Inst- antan- eous dis- charge (ft3/s)	Spec- ific cond- uct- ance, field, at 25 deg. C (uS/cm)	pH, field (stand- ard units)	Water temper- ature (deg. C)	Color (plat- inum- cobalt units)	Oxygen, dis- solved (mg/L)	Total sulfide (mg/L as S)	
WR-5	Withlacoochee River above Valdosta, Ga. (02317749)	06-28-88	0800	6E	82	6.53	26.5	50	4.8	-	
		08-08-88	1730	20E	110	6.57	28.1	90	4.5	-	
		06-09-91	1330	340	70	6.00	21.2	200	6.3	<0.01	
WR-6	Withlacoochee River at sinkhole area, above Valdosta, Ga.	06-09-91	1600	260E	68	6.31	21.7	-	6.1	<0.01	
WR-7	Withlacoochee River at U.S. Highway 41, near Valdosta, Ga. (02317755)	06-09-91	1515	260E	67	6.25	22.5	-	6.2	<0.01	
CO-1	Cherry Creek Outlet near Valdosta, Ga.	06-09-91	1445	-	52	6.98	29.5	-	8.6	-	
				Alka- linity, lab (mg/L as CaCO3)	Calcium, dis- solved (mg/L)	Magne- sium, dis- solved (mg/L)	Sodium, dis- solved (mg/L)	Potas- sium, dis- solved (mg/L)	Sulfate, dis- solved (mg/L)	Chlo- ride, dis- solved (mg/L)	Fluo- ride, dis- solved (mg/L)
WR-5	Withlacoochee River above Valdosta, Ga. (02317749)	06-28-88	13.4	3.5	2.0	8.4	1.3	6.1	11	0.2	
		08-08-88	12.6	4.7	2.2	10	2.3	14	12	0.1	
		06-09-91	9.4	3.6	1.8	6.4	2.2	3.5	8.8	<0.1	
WR-6	Withlacoochee River at sinkhole area, above Valdosta, Ga.	06-09-91	8.1	3.4	1.7	6.4	2.3	3.4	8.9	<0.1	
WR-7	Withlacoochee River at U.S. Highway 41, near Valdosta, Ga. (02317755)	06-09-91	8.9	3.4	1.7	6.0	2.1	3.3	8.8	<0.1	
CO-1	Cherry Creek Outlet near Valdosta, Ga.	06-09-91	9.5	2.8	1.2	5.2	1.9	1.8	7.4	0.1	
				Bromide, dis- solved (mg/L)	Silica, dis- solved, as SiO2 (mg/L)	Nitro- gen, NO2+NO3 dis- solved (mg/L)	Alum- inum, dis- solved (ug/L)	Barium, dis- solved (ug/L)	Cadmium, dis- solved (ug/L)	Iron, dis- solved (ug/L)	Lead, dis, solved (ug/L)
WR-5	Withlacoochee River above Valdosta, Ga. (02317749)	06-28-88	0.04	5.0	0.06	150	16	<1	800	1	
		08-08-88	0.03	7.0	0.16	185	19	<1	340	1	
		06-09-91	0.07	7.0	0.12	400	22	-	1000	-	
WR-6	Withlacoochee River at sinkhole area, above Valdosta, Ga.	06-09-91	0.07	7.1	<0.02	450	20	-	1060	-	
WR-7	Withlacoochee River at U.S. Highway 41, near Valdosta, Ga. (02317755)	06-09-91	0.04	1.1	<0.02	520	21	-	1100	-	
CO-1	Cherry Creek Outlet near Valdosta, Ga.	06-09-91	0.04	5.8	<0.02	740	10	-	970	-	
				Lithium, dis- solved (ug/L)	Manga- nese, dis- solved (ug/L)	Mercury, dis- solved (ug/L)	Stron- tium, dis- solved (ug/L)	Zinc, dis- solved (ug/L)	Carbon, organic total (mg/L)	Carbon, organic dis- solved (mg/L)	
WR-5	Withlacoochee River above Valdosta, Ga. (02317749)	06-28-88	<1	67	<1	18	8	10	-	-	
		08-08-88	1	62	<1	27	18	12	-	-	
		06-09-91	1	36	-	21	-	22	22	-	
WR-6	Withlacoochee River at sinkhole area, above Valdosta, Ga.	06-09-91	<1	34	-	19	-	-	-	-	
WR-7	Withlacoochee River at U.S. Highway 41, near Valdosta, Ga. (02317755)	06-09-91	1	35	-	19	-	-	-	-	
CO-1	Cherry Creek Outlet near Valdosta, Ga.	06-09-91	<1	35	-	12	-	-	-	-	

Table 3. Miscellaneous water-quality data for surface-water sites in the Valdosta area, Georgia, June 1988 to June 1991--Continued

[-, no data; <, less than; E, estimated]

			Tritium, total (TU)	Tritium, count error (TU)	H-2/ H-1 stable isotope ratio (per mil)	O-18/ O-16 stable isotope ratio (per mil)	Car- bon-14, (per- cent modern)	Car- bon-13, (per mil)
WR-5	Withlacoochee River above Valdosta, Ga. (02317749)	06-28-88	-	-	-	-	-	-
		08-08-88	10	0.7	-10.5	-2.60	124.9	-14.4
		06-09-91	8.2	0.4	-13.0	-2.60	-	-
WR-6	Withlacoochee River at sinkhole area, above Valdosta, Ga.	06-09-91	-	-	-	-	-	-
WR-7	Withlacoochee River at U.S. Highway 41, near Valdosta, Ga. (02317755)	06-09-91	-	-	-	-	-	-
CO-1	Cherry Creek Outlet near Valdosta, Ga.	06-09-91	-	-	-	-	-	-

Table 4. Miscellaneous field measurements and chloride and isotope data for the Withlacoochee and Little Rivers, Georgia

[-, no data; E, estimated; <, less than]

Site number	Station name	Date	Time	Inst- antan- eous dis- charge (ft ³ /s)	Spec- ific con- duct- ance at 25 deg. C (uS/cm)	pH, field (stand- ard units)	Water temper- ature (deg. C)	Chlo- ride, dis- solved (mg/L)	Tritium, total (TU)	Tritium, count error (TU)	H-2/ H-1 stable isotope ratio (per mil)	O-18/ O-16 stable isotope ratio (per mil)
WR-4	Withlacoochee River at McMillan Road near Bemiss, Ga. (023177483)	10-28-92	1250	57	155	-	18.0	21	-	-	-	-
		11-23-92	1710	445	97	-	19.5	12	-	-	-	-
		12-04-92	1120	399	88	-	9.0	-	-	-	-	-
		12-29-92	1200	264	97	-	11.5	14	-	-	-	-
		01-27-93	1750	1310	64	-	10.0	9.1	-	-	-	-
		02-18-93	1540	1060	65	-	13.0	9.0	-	-	-	-
		03-19-93	1700	1460	57	-	13.0	7.4	-	-	-	-
		04-19-93	1700	250	82	-	20.0	10	-	-	-	-
		05-18-93	1550	15	115	-	24.5	13	-	-	-	-
		06-23-93	1630	2.9	112	-	27.0	12	-	-	-	-
		07-28-93	1605	28	185	-	29.5	18	-	-	-	-
		08-24-93	1800	11	234	-	29.0	22	-	-	-	-
		09-29-93	1619	17	337	-	22.5	29	-	-	-	-
		10-27-93	1705	20	219	-	20.5	22	-	-	-	-
WR-5	Withlacoochee River above Valdosta, Ga. (02317749)	05-17-82	1445	-	95	-	22.0	11	-	-	-	-
		08-31-82	1300	-	87	-	26.0	11	-	-	-	-
		06-28-88	0800	6E	82	6.53	26.5	11	-	-	-	-
		08-08-88	1730	20E	110	6.57	28.0	12	10.5	0.7	-10.5	-2.6
		12-21-88	1431	33	330	7.8	10.5	24	11.1	0.5	-16.5	-2.9
		01-19-89	1436	26	375	7.9	12.5	24	12.8	0.6	-14.0	-2.8
		02-16-89	1506	25	418	8.0	18.0	29	10.3	0.4	-13.5	-2.4
		03-23-89	1511	140	187	6.7	17.0	17	12.3	0.4	-14.5	-2.6
		04-20-89	1446	280	122	6.9	18.5	14	14.4	0.5	-11.5	-2.4
		05-18-89	1426	128	130	7.1	20.0	15	8.6	0.3	-14.5	-2.4
		06-22-89	1346	205	120	7.2	25.0	13	7.5	0.3	-11.5	-2.0
		07-20-89	1446	410	118	7.2	25.0	12	7.4	0.3	-11.0	-2.4
		08-24-89	1426	25	195	7.4	28.0	20	10.0	0.3	-12.5	-2.3
		09-21-89	1416	16	182	7.5	23.0	18	9.2	0.3	-10.5	-2.0
		10-19-89	1436	43	389	7.7	21.0	36	10.1	0.3	-13.0	-2.5
		02-22-90	1231	1550	-	-	15.5	9.2	10.0	0.5	-	-
		06-09-91	1330	340	70	-	21.0	8.8	8.2	0.4	-13.0	-2.6
WR-7	Withlacoochee River at U.S. Highway 41 near Valdosta, Ga. (02317755)	06-09-91	1515	<10	67	-	22.5	8.8	-	-	-	-
		10-28-92	1115	<10	126	-	18.5	16	-	-	-	-
		11-23-92	0940	321	87	-	18.5	12	-	-	-	-
		12-04-92	1020	350	89	-	9.0	-	-	-	-	-
		12-29-92	0940	178	96	-	11.5	14	-	-	-	-
		01-27-93	0930	1330	63	-	10.0	9.3	-	-	-	-
		02-18-93	0820	888	63	-	11.5	9.2	-	-	-	-
		03-19-93	0925	1150	53	-	12.0	8.0	-	-	-	-
		04-19-93	1800	182	80	-	19.0	10	-	-	-	-
		05-18-93	0812	<10	112	-	22.5	13	-	-	-	-
		06-23-93	0830	<10	115	-	25.5	12	-	-	-	-
		07-28-93	0837	<10	108	-	26.5	8.4	-	-	-	-
LR-1	Little River (S-1780) near Hahira, Ga. (02318390)	08-24-93	0850	<10	102	-	27.0	8.5	-	-	-	-
		09-29-93	0903	<10	110	-	21.5	7.6	-	-	-	-
		10-28-92	0945	23.44	83	-	20.0	10	-	-	-	-
		11-23-92	0840	17.94	75	-	18.5	11	-	-	-	-
		12-04-92	0855	18.17	83	-	9.5	-	-	-	-	-
		12-29-92	0810	19.43	88	-	11.5	12	-	-	-	-
		01-27-93	0800	14.60	62	-	10.5	8.7	-	-	-	-
		02-18-93	0700	16.01	64	-	11.0	8.8	-	-	-	-
		03-19-93	0810	14.70	58	-	10.5	7.8	-	-	-	-
		04-19-93	0620	19.02	79	-	18.0	8.7	-	-	-	-
		05-18-93	0643	23.32	76	-	23.5	9.3	-	-	-	-
		06-23-93	0725	23.98	79	-	26.5	8.5	-	-	-	-
		07-28-93	0723	23.92	79	-	29.5	9.0	-	-	-	-
		08-24-93	0740	24.22	80	-	25.0	8.7	-	-	-	-
		09-29-93	0806	24.22	66	-	22.5	9.0	-	-	-	-
		10-27-93	0700	24.45	65	-	20.0	9.1	-	-	-	-

Table 5. Concentration of chlorofluorocarbon-11, -12, and -113 at surface-water sites in Lowndes and adjacent counties, Georgia, June 1991 to October 1993

[-, no data; <, less than]

Site number	Station name	Date	Time	Sample number	Inst- antan- eous dis- charge, (ft ³ /s)	Spec- ific cond- uct- ance at 25 deg. C (uS/cm)	Water temper- ature (deg. C)	Concentration in water		
								CFC-11 (pg/kg)	CFC-12 (pg/kg)	CFC-113 (pg/kg)
AR-1	Alapaha River at Statenville, Ga. (02317500)	06-08-91	1200	1	1980	-	22.0	10.5	220.4	8.1
		06-08-91	1200	2			22.0	1267.6	579.8	66.2
		06-08-91	1200	3			22.0	117.6	265.6	20.9
LR-1	Little River (S-1780) near Hahira, Ga. (02318390)	06-08-91	-	1	-	-	18.0	1118.0	615.5	67.8
		06-08-91	-	2			18.0	1522.5	271.1	68.6
		06-08-91	-	3			18.0	947.4	372.2	56.9
		10-28-92	0945	1	-	83	20.0	1106.3	781.1	87.7
		10-28-92	0945	2				14632.9	546.5	1201.1
		10-28-92	0945	3				2935.8	2204.4	183.2
		11-23-92	0840	1	-	75	18.5	-	-	-
		12-04-92	0855	1			9.3	18524.4	2936.2	111.2
		12-04-92	0855	2				4441.9	739.0	92.3
		12-29-92	0810	1	-	88	11.5	824.3	598.8	163.0
		12-29-92	0810	2				906.5	182.4	136.1
		01-27-93	0800	1			10.5	18082.3	500.6	313.8
		01-27-93	0800	2	-	64		13.6	370.1	25.6
		02-18-93	0700	1			11.0	1703.8	501.2	125.2
		03-19-93	0810	1			10.5	23281.5	527.3	259.3
		03-19-93	0810	2	-	79		23042.1	487.1	253.1
		04-19-93	0620	1			18.0	1174.8	514.1	54.2
		04-19-93	0620	2				1180.8	535.8	67.1
		05-18-93	0643	1	-	76	23.5	23142.3	462.3	269.1
		05-18-93	0643	2				719.9	199.0	66.5
		06-23-93	0725	1			26.5	28486.2	839.7	336.1
		06-23-93	0725	2	-	79		513.6	182.6	22.8
		07-28-93	0723	1			29.5	2008.7	215.1	266.9
		07-28-93	0723	2				-	216.4	193.2
		07-28-93	0723	3	-	80		1313.2	227.3	62.4
		08-24-93	0740	1			25.0	336.3	654.2	50.8
		08-24-93	0740	2				320.0	1402.9	50.8
		09-29-93	0806	1	-	66	22.5	505.1	200.9	47.6
		09-29-93	0806	2				559.0	235.2	47.9
		10-27-93	0700	1			20.0	412.9	249.2	57.1
		10-27-93	0700	2		52		440.4	254.7	63.9
CO-1	Cherry Creek Lake Outlet near Valdosta, Ga.	06-09-91	1435	1			29.5	1324.5	226.8	28.9
		06-09-91	1435	2			29.5	31.2	201.5	18.5
		06-09-91	1435	3			29.5	351.6	204.6	37.6
CL-1	Cherry Creek Lake near Valdosta, Ga.	06-07-91	1140	1	-	-	29.5	<0.1	385.2	9.0
WL-1	Webb Lake near Hahira, Ga.	06-08-91	-	1	-	-	22.0	<0.1	<0.1	<0.1
		06-08-91	-	2			22.0	<0.1	<0.1	<0.1
WO-1	Webb Lake Outlet near Hahira, Ga.	06-08-91	-	1	-	-	21.0	<0.1	12.9	<0.1
WR-4	Withlacoochee River at McMillan Road near Bemiss, Ga. (023177483)	06-09-91	1600	1	-	336	21.0	48.7	219.2	13.6
		06-09-91	1600	2			21.0	0.7	227.4	12.0
		06-09-91	1600	3			21.0	80.2	228.7	18.2
		10-28-92	1250	1	57.0	155	18.0	1903.2	830.6	97.8
		11-23-92	1939	1			19.3	-	-	-
		12-04-92	1120	1			19.5	20809.3	10851	172.1
		12-04-92	1120	2	264	97		15644.7	1945.5	117.7
		12-29-92	1200	1			11.5	1220.0	323.7	104.8
		12-29-92	1200	2				770.9	461.7	194.5
		01-27-93	1750	1	1306	64	9.9	11681.0	355.0	117.1
		02-18-93	1540	1			13.0	16913.9	780.9	266.1
		02-18-93	1540	2				31442.2	398.7	128.3
		03-19-93	1700	1	1457	57	13.0	8344.5	344.9	92.3
		04-02-93	1550	1			19.0	532.2	290.6	79.6
		04-02-93	1550	2			19.0	540.7	287.7	62.0
		04-19-93	1700	1	250	82	20.0	906.0	235.3	69.3
		04-19-93	1700	2				1620.3	236.1	64.8
		05-18-93	1550	1			24.5	15751.4	254.7	59.5
		05-18-93	1550	2	2.9	112		827.1	252.8	61.8
		06-23-93	1630	1			27.0	20079.7	625.0	77.1
		06-23-93	1630	2				6455.4	1057.3	42.9
		07-28-93	1605	1	27.8	185	29.5	8558.4	197.1	-
		07-28-93	1605	2				1978.2	168.5	45.8
		08-24-93	1800	1			29.0	319.5	617.5	72.1
		08-24-93	1800	2	17.4	337		314.7	908.7	36.2
		09-29-93	1619	1			22.5	433.6	223.1	62.9
		09-29-93	1619	2				420.9	211.4	69.2
		10-27-93	1705	1	19.6	219	20.5	782.9	248.1	62.7
		10-27-93	1705	2				908.5	271.5	68.5

Table 5. Concentration of chlorofluorocarbon-11, -12, and -113 at surface-water sites in Lowndes and adjacent counties, Georgia, June 1991 to October 1993--Continued

[-, no data; <, less than]

Site number	Station name	Date	Time	Sample number	Inst-antan-eous discharge, (ft ³ /s)	Specific conductance at 25 dec. C (uS/cm)	Water temperature (deg. C)	Concentration in water		
								CFC-11 (pg/kg)	CFC-12 (pg/kg)	CFC-113 (pg/kg)
WR-6	Withlacoochee River at sinkhole area, above Valdosta, Ga.	06-09-91	1500	1	-	-	18.0	543.3	263.1	35.2
		06-09-91	1500	2				1049.8	616.0	106.6
		06-09-91	1500	3				697.0	294.0	45.8
		06-09-91	1500	4				1320.7	695.3	106.2
		06-09-91	1500	5				0.7	227.4	12.0
		06/09/91	1500	6				48.7	219.2	13.6
WR-7	Withlacoochee River at U.S. Highway 41, near Valdosta, Ga. (02317755)	06-09-91	1520	1	-	-	18.0	<0.1	186.9	<0.1
		06-09-91	1520	2				<0.1	195.7	<0.1
		06-09-91	1520	3				<0.1	201.2	<0.1
		10-28-92	1115	1	-	126	18.5	3769.2	2564.2	253.6
		10-28-92	1115	2				1161.7	848.3	118.7
		10-28-92	1115	3				1629.8	702.4	89.3
		10-28-92	1115	4				1824.3	1195.8	129.8
		10-28-92	1115	5				1495.4	698.9	99.5
		11-23-92	0940	1	320	87	18.5	-	-	-
		12-04-92	1020	1	350	89	9.1	1590.9	502.8	105.0
		12-04-92	1020	2				1284.8	447.4	103.0
		12-29-92	0940	1	-	96	11.5	625.1	534.7	290.0
		12-29-92	0940	2				811.5	400.2	152.9
		01-27-93	0930	1	1330	63	10.0	20.8	341.7	20.2
		02-18-93	0820	1	860	63	11.0	856.4	351.9	105.3
		02-18-93	0820	2				889.4	333.7	95.9
		03-19-93	0925	1	1510	53	12.0	23374.5	563.7	290.2
		03-19-93	0925	2				1156.9	370.0	100.8
		04-19-93	1800	1	-	80	19.0	496.0	233.1	66.9
		04-19-93	1800	2				768.0	234.2	51.9
		05-18-93	0812	1	-	112	22.5	19090.2	219.6	167.9
		05-18-93	0812	2				26388.7	543.3	308.8
		06-23-93	0830	1	-	115	26.5	29939.4	193.5	234.0
		06-23-93	0830	2				21877.1	211.1	67.2
		07-28-93	0837	1	-	108	26.0	17227.3	202.3	130.7
		07-28-93	0837	2				671.0	184.3	60.5
		07-28-93	0837	3				312.6	165.6	58.8
		08-24-93	0850	1	-	102	27.0	722.9	107573	81.7
		08-24-93	0850	2				660.6	100579	77.1
		09-29-93	0903	1	-	110	21.5	623.5	217.0	80.4
		09-29-93	0903	2				691.3	234.8	83.1
		10-27-93	0810	1	-	84	18.5	562.7	257.4	48.0
		10-27-93	0810	2				590.3	249.4	68.1
NR-1	New River at SR 125 near Eldorado, Ga. (02317725) (1)	04-01-93	1900	1	-	110	17.0	450.3	258.7	66.0
		04-01-93	1900	2				456.8	261.0	77.5
NR-2	New River at Lenox-Alapaha Road near Lenox, Ga.	04-02-93	1445	1	-	79	17.0	546.5	272.6	73.3
		04-02-93	1445	2				547.3	292.6	66.1
NR-3	New River at SR 76 near Nashville, Ga. (02317734)	04-02-93	1345	1	-	60	17.0	599.9	359.0	76.7
		04-02-93	1345	2				564.2	332.3	70.0
HC-1	Hog Creek at Lenox-Alapaha Road near Alapaha, Ga. (1)	04-01-93	1820	1	-	39	17.0	478.8	264.8	57.3
		04-01-93	1820	2				925.9	975.0	232.6
WR-1	Withlacoochee River at SR 125 near Nashville, Ga. (02317690)	04-02-93	1430	1	-	37	17.0	570.9	317.2	80.4
		04-02-93	1430	2				924.6	479.1	76.3
WR-2	Withlacoochee River at SR 37 near Adel, Ga. (02317737)	04-02-93	1320	1	-	57	17.0	600.8	359.8	83.4
		04-02-93	1320	2				590.6	378.4	68.0
WR-3	Withlacoochee River at SR 122 near Hahira, Ga. (02317742)	04-02-93	1245	1	-	55	18.0	579.5	355.8	63.6
		04-02-93	1245	2				652.0	423.6	65.8

(1) Site located north of area shown on plate 1.

Table 6. Summary of water-quality data, Withlacoochee River above Valdosta, Georgia (02317749) (WR-5), 1974-92

[Constituent concentration in mg/L, unless noted otherwise; *, value is estimated by using a log-probability regression to predict the values of data below the detection limit; -, no data]

Property or constituent and units	Number of analyses	Maximum value	Minimum value	Mean value	Percent of analyses in which values were less than or equal to those shown				
					95	75	50	25	5
Discharge, instantaneous. ft ³ /s	212	8000	3.1	426	1738	496	114	24	6.6
Specific conductance, field, at 25 deg. C, uS/cm	155	450	28	143	374	182	125	76	46
Specific conductance, lab, at 25 deg. C, uS/cm	196	420	29	115	280	142	95	65	43
pH, field, standard units	221	8.0	5.2	6.5	7.3	6.8	6.6	6.1	5.4
pH, lab, standard units	146	7.7	5.3	6.6	7.4	7.0	6.7	6.2	5.6
Water temperature, deg. C	218	32.5	4.0	19.1	28.0	25.0	20.0	14.0	8.0
Color, platinum-cobalt units	212	300	5	118	210	150	120	80	50
Turbidity, NTU	106	36	1	6.4	15	8	5	4	1
Dissolved oxygen	206	13.3	4.2	7.3	10.5	8.2	7.0	6.0	5.3
BOD, 5-day at 20 deg. C	193	4.7	0.1	1.2	2.1	1.4	1.1	0.8	0.5
Alkalinity, lab, as CaCO ₃	206	88	1	17.7	46	23	15	7.0	3.0
Alkalinity, field, as CaCO ₃	19	74	6	29.5	74	38	21	13	6.0
Dissolved solids, residue at 180 deg. C	6	84	68	77.8	84	83	80	71	68
Calcium, dissolved	16	14.0	2.9	7.6	14	12	6.0	5.0	2.9
Magnesium, dissolved	4	2.3	2.0	-	-	-	-	-	-
Sodium, dissolved	16	67	5.9	25	67	44	15	9.0	5.9
Potassium, dissolved	16	5.7	0.6	2.6	5.7	3.1	2.4	1.7	0.6
Sulfate, dissolved	20	74	4.8	24.6	74	26	14	9.5	4.9
Chloride, dissolved	16	36	9.2	17.3	36	23	14	11	9.2
Fluoride, dissolved	16	0.3	<0.1	0.2*	0.3	0.2	0.1	0.1	0.1
Silica, dissolved	14	13	0.98	6.4	13	8.2	6.8	3.9	1.0
Nitrite + nitrate, as N	205	5.5	0.02	0.25	0.67	0.26	0.17	0.09	0.02
Ammonia, as N	205	1.0	<0.02	0.05*	0.12	0.06	0.04	<0.03	<0.02

Table 6. Summary of water-quality data, Withlacoochee River above Valdosta, Georgia (02317749) (WR-5), 1974-92--Continued

[Constituent concentration in mg/L, unless noted otherwise; *, value is estimated by using a log-probability regression to predict the values of data below the detection limit; -, no data]

Property or constituent and units	Number of analyses	Maximum value	Minimum value	Mean value	Percent of analyses in which values were less than or equal to those shown				
					95	75	50	25	5
Phosphorus, total, as P	205	1.3	0.02	0.28	0.73	0.36	0.23	0.14	0.07
Orthophosphate, dissolved, as P	4	0.26	0.14	-	-	-	-	-	-
Organic carbon, total,	209	35	1.0	16.2	26	20	16	12	7.8
Fecal coliform, MPN	189	11000	<20	497*	2300	230	100	40	<20

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993

[-, no data; <, less than]

Well number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, at 25 deg. C (uS/cm)	pH, field (standard units)	Water temperature (deg. C)	Color (plat-inum-cobalt units)	Oxygen, dissolved (mg/L)	Methane diss. (ug/L as CH4)
17F012	08-11-88	208	130	208	265	7.77	21.3	<5	1.3	2
17F012	06-08-91	208	130	208	265	7.82	21.2	5	2.0	6
17H017	11-17-65	230	192	230	380	7.7	22.0	<5	-	-
17H017	08-11-88	230	192	230	390	7.68	22.3	<5	<0.1	9
17H017	06-08-91	230	192	230	395	7.73	22.5	5	0.1	-
18F014	08-09-88	190	160	190	185	7.09	21.4	<5	1.0	2
18F014	06-08-91	190	160	190	190	7.12	21.5	5	1.4	4
18F017	08-10-88	165	156	165	205	7.46	20.7	<5	<0.1	210
18F017	06-08-91	165	156	165	210	7.38	20.6	10	0.2	-
18J034	08-11-88	550	-	-	520	7.79	23.2	<5	<0.1	3
19D042	08-08-88	190	165	190	340	7.89	21.5	<5	5.5	3
19E004	03-12-74	367	168	367	310	7.8	20.2	20	-	-
19E004	08-01-78	367	168	367	280	7.8	21.0	40	-	-
19E004	10-17-79	367	168	367	275	7.3	22.0	20	-	-
19E004	06-10-91	367	168	367	310	8.04	21.1	20	0.1	-
19E005	03-12-74	348	168	348	165	8.0	20.5	5	-	-
19E005	08-01-78	348	168	348	165	8.0	18.0	20	-	-
19E005	10-17-79	348	168	348	135	7.1	22.0	5	-	-
19E005	05-18-82	348	168	348	160	8.1	21.5	<5	-	-
19E005	08-30-82	348	168	348	160	8.0	21.0	15	-	-
19E005	05-16-83	348	168	348	160	8.2	20.8	20	1.2	-
19E005	08-29-83	348	168	348	160	7.9	21.9	10	-	-
19E005	08-29-83	348	168	348	180	7.4	22.6	-	-	-
19E005	04-24-84	348	168	348	170	8.0	20.5	10	-	-
19E010	03-12-74	400	178	400	340	8.0	-	50	-	-
19E010	08-01-78	400	178	400	310	7.9	21.0	45	-	-
19E010	10-17-79	400	178	400	295	7.1	22.0	30	-	-
19E010	05-18-82	400	178	400	285	7.6	20.5	20	-	-
19E010	08-30-82	400	178	400	360	8.1	21.0	45	-	-
19E010	05-17-83	400	178	400	255	8.0	20.6	30	0.3	-
19E010	08-30-83	400	178	400	320	8.0	21.2	30	-	-
19E010	04-24-84	400	178	400	370	8.1	20.5	30	-	-
19E010	08-28-84	400	178	400	300	8.1	21.0	30	-	-
19E010	08-06-85	400	178	400	335	7.8	20.5	30	0.4	-
19E010	07-01-88	400	178	400	305	8.08	21.0	-	<0.1	-
19E010	08-01-88	400	178	400	310	8.03	21.7	25	<0.1	410
19E010	06-09-91	400	178	400	345	7.77	20.9	30	0.1	-
19E011	08-03-61	400	190	400	255	-	21.5	30	-	-
19E011	03-12-74	400	190	400	160	8.1	20.0	40	-	-
19E011	08-01-78	400	190	400	150	8.0	20.0	40	-	-
19E011	10-17-79	400	190	400	150	7.3	22.0	35	-	-
19E011	06-03-91	400	190	400	185	8.20	19.7	40	<0.1	700
19E017	08-09-85	251	216	251	225	8.0	22.5	5	0.2	-
19E017	08-05-88	251	216	251	230	7.89	21.6	<5	<0.1	25
19E017	06-03-91	251	216	251	220	7.91	21.7	5	<0.1	26
19E024	06-19-74	212	175	212	280	7.5	20.5	<5	-	-
19E024	06-07-91	212	175	212	275	7.74	21.1	5	0.1	18
19E041	06-18-70	346	187	346	225	7.6	22.0	5	-	-
19E041	03-12-74	346	187	346	230	7.9	20.9	5	-	-
19E041	08-01-78	346	187	346	230	7.8	18.0	10	-	-
19E041	10-17-79	346	187	346	210	7.3	22.0	5	-	-
19E041	05-18-82	346	187	346	225	7.8	21.5	<5	-	-
19E041	08-30-82	346	187	346	260	7.6	21.5	10	-	-
19E041	05-16-83	346	187	346	220	7.8	21.3	10	0.3	-
19E041	08-29-83	346	187	346	225	7.8	21.3	5	-	-
19E041	04-25-84	346	187	346	250	7.9	21.3	5	-	-
19E041	08-28-84	346	187	346	225	7.9	21.5	5	-	-
19E041	08-06-85	346	187	346	235	7.7	22.0	5	0.1	-
19E041	07-01-88	346	187	346	230	7.97	21.5	<5	<0.1	-
19E041	08-01-88	346	187	346	250	7.79	21.5	5	<0.1	280
19E041	06-09-91	346	187	346	240	7.86	21.5	5	<0.1	-
19E055	08-09-85	230	189	230	210	7.9	22.0	10	0.1	-
19E055	06-07-91	230	189	230	220	7.95	21.6	5	<0.1	82
19E056	06-07-91	235	175	235	195	7.97	23.3	5	0.9	330
19E057	06-07-91	280	190	280	215	7.95	21.4	5	0.4	44

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Radon 222, total (pCi/L)	Sulfide, total (mg/L)	Alkalinity, field (mg/l as CaCO3)	Alkalinity, lab (mg/l as CaCO3)	Solids, residue at 180 deg. C, dissolved (mg/L)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)
17F012	08-11-88	-	<0.01	133	133	160	36	11	3.1	0.77
17F012	06-08-91	-	0.01	-	128	-	33	11	3.5	0.82
17H017	11-17-65	-	-	-	-	266	45	18	4.9	1.5
17H017	08-11-88	-	0.02	121	121	47	17	6.4	1.3	1.3
17H017	06-08-91	-	0.01	124	122	269	48	17	5.9	1.2
18F014	08-09-88	-	<0.01	90.3	91.3	132	28	4.7	3.1	0.87
18F014	06-08-91	-	<0.01	-	92.0	-	29	4.7	3.2	0.87
18F017	08-10-88	-	0.16	102	103	150	29	7.2	3.4	0.75
18F017	06-08-91	-	0.23	-	102	-	29	6.6	3.2	0.60
18J034	08-11-88	-	0.04	119	120	310	37	17	40	2.4
19D042	08-08-88	-	<0.01	105	106	161	30	12	2.9	0.91
19E004	03-12-74	-	-	-	-	210	52	4.4	3.4	0.3
19E004	08-01-78	-	-	-	-	236	-	-	-	-
19E004	10-17-79	-	-	-	-	210	-	-	-	-
19E004	06-10-91	-	1.9	81	79.0	-	49	4.9	2.9	0.41
19E005	03-12-74	-	-	-	-	108	19	6.9	3.6	0.5
19E005	08-01-78	-	-	-	-	112	-	-	-	-
19E005	10-17-79	-	-	-	-	105	-	-	-	-
19E005	05-18-82	-	-	76	-	-	19	6.3	3.7	0.2
19E005	08-30-82	-	-	82	-	-	19	6.1	3.7	0.4
19E005	05-16-83	-	-	76	-	111	-	-	-	-
19E005	08-29-83	-	-	96	-	115	-	-	-	-
19E005	08-29-83	-	-	-	-	-	-	-	-	-
19E005	04-24-84	-	-	96	-	114	-	-	-	-
19E010	03-12-74	-	-	-	-	246	57	3.6	3.9	0.4
19E010	08-01-78	-	-	-	-	258	-	-	-	-
19E010	10-17-79	-	-	-	-	222	-	-	-	-
19E010	05-18-82	-	-	75	-	-	49	3.9	3.5	0.2
19E010	08-30-82	-	-	83	-	-	56	3.6	3.8	0.4
19E010	05-17-83	-	-	74	-	209	-	-	-	-
19E010	08-30-83	-	-	88	-	214	-	-	-	-
19E010	04-24-84	-	-	94	-	260	-	-	-	-
19E010	08-28-84	-	-	95	-	198	-	-	-	-
19E010	08-06-85	-	2.9	69	-	234	-	-	-	-
19E010	07-01-88	-	2.2	-	72.0	-	54	3.6	4.3	0.50
19E010	08-01-88	-	1.7	72.6	71.2	204	52	3.7	4.2	0.52
19E010	06-09-91	-	2.6	79	75.8	-	56	4.0	4.2	0.41
19E011	08-03-61	-	-	-	-	188	42	3.6	3.2	0.4
19E011	03-12-74	-	-	-	-	110	22	3.1	4.9	0.6
19E011	08-01-78	-	-	-	-	121	-	-	-	-
19E011	10-17-79	-	-	-	-	103	24	3.1	4.9	0.7
19E011	06-03-91	-	1.5	76	74.2	-	26	3.4	6.4	1.0
19E017	08-09-85	-	0.7	98	-	155	-	-	-	-
19E017	08-05-88	-	0.39	99	99.3	158	29	10	3.3	0.92
19E017	06-03-91	-	0.34	101	99.9	-	28	10	3.4	0.93
19E024	06-19-74	-	-	-	-	192	39	11	5.1	1.4
19E024	06-07-91	-	0.06	136	133	-	36	11	4.1	1.1
19E041	06-18-70	-	-	-	-	169	31	8.6	3.0	0.7
19E041	03-12-74	-	-	-	-	161	31	9.1	3.1	0.6
19E041	08-01-78	-	-	-	-	162	-	-	-	-
19E041	10-17-79	-	-	-	-	151	32	9.3	3.2	0.6
19E041	05-18-82	-	-	119	-	-	31	9.0	2.8	0.3
19E041	08-30-82	-	-	125	-	-	30	9.1	2.9	0.5
19E041	05-16-83	-	-	120	-	148	-	-	-	-
19E041	08-29-83	-	-	150	-	153	-	-	-	-
19E041	04-25-84	-	-	146	-	160	-	-	-	-
19E041	08-28-84	-	-	149	-	170	-	-	-	-
19E041	08-06-85	-	0.6	116	-	151	-	-	-	-
19E041	07-01-88	-	0.47	121	118	161	35	8.8	2.7	0.60
19E041	08-01-88	-	0.43	119	120	167	34	9.6	2.7	0.65
19E041	06-09-91	-	0.50	-	120	-	34	9.3	2.8	0.56
19E055	08-09-85	-	1.4	104	-	148	-	-	-	-
19E055	06-07-91	-	0.81	107	104	-	30	7.4	3.3	1.0
19E056	06-07-91	-	0.01	97	94.6	-	24	8.1	3.0	1.0
19E057	06-07-91	550	<0.01	107	105	-	26	9.1	3.4	0.95

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Sulfate, dis-solved (mg/L as SO4)	Chloride, dis-solved (mg/L)	Fluoride, dis-solved (mg/L)	Bromide, dis-solved (mg/L)	Silica, dis-solved (mg/L SiO2)	NO2+NO3, dis-solved (mg/L as N)	Phosphorus ortho, dis-solved (mg/L as P)	Carbon, organic total (mg/L)	Carbon, organic dis-solved (mg/L)
17F012	08-11-88	3.9	4.3	0.3	0.01	27	0.03	0.02	0.3	0.4
17F012	06-08-91	4.2	3.0	0.1	0.02	28	<0.02	-	-	1.7
17H017	11-17-65	78	5.0	0.4	-	32	-	-	-	-
17H017	08-11-88	69	4.9	0.5	0.02	27	<0.02	0.02	0.6	0.6
17H017	06-08-91	70	5.2	0.4	0.02	27	<0.02	-	-	0.6
18F014	08-09-88	1.2	3.0	0.2	0.02	39	0.02	0.05	0.3	0.3
18F014	06-08-91	1.1	2.7	0.5	0.01	40	<0.02	-	-	0.3
18F017	08-10-88	0.4	3.2	0.3	0.02	37	<0.02	0.18	1.4	1.4
18F017	06-08-91	<0.1	3.3	0.4	0.02	33	<0.02	-	-	1.9
18J034	08-11-88	56	49	0.7	0.17	33	<0.02	<0.01	0.6	0.5
19D042	08-08-88	16	3.7	0.3	0.02	34	<0.02	<0.01	0.4	0.7
19E004	03-12-74	73	4.1	<0.1	-	14	0.01	-	-	-
19E004	08-01-78	76	-	-	-	-	-	-	-	-
19E004	10-17-79	76	-	-	-	-	0.05	-	3.7	-
19E004	06-10-91	63	3.8	0.1	0.02	15	<0.02	-	-	3.8
19E005	03-12-74	2.0	4.1	0.2	-	24	0.01	-	-	-
19E005	08-01-78	2.0	-	-	-	-	-	-	-	-
19E005	10-17-79	-	-	-	-	-	0.04	-	1.8	-
19E005	05-18-82	2.0	5.2	0.3	-	22	-	<0.01	2.8	-
19E005	08-30-82	2.0	5.1	0.3	-	22	<0.10	<0.01	3.8	-
19E005	05-16-83	<5.0	-	-	-	23	-	-	4.3	-
19E005	08-29-83	2.0	-	-	-	23	-	-	4.4	-
19E005	08-29-83	-	-	-	-	-	-	-	-	-
19E005	04-24-84	1.9	-	-	-	-	-	-	3.5	-
19E010	03-12-74	90	5.3	<0.1	-	9.9	<0.01	-	-	-
19E010	08-01-78	97	-	-	-	-	-	-	-	-
19E010	10-17-79	86	-	-	-	-	0.07	-	7.6	-
19E010	05-18-82	70	7.7	0.2	-	11	<0.1	0.05	8.2	-
19E010	08-30-82	86	7.8	0.2	-	10	<0.1	0.03	7.3	-
19E010	05-17-83	70	-	-	-	12	-	-	6.8	-
19E010	08-30-83	84	-	-	-	11	-	-	8.2	-
19E010	04-24-84	110	-	-	-	-	-	-	6.3	-
19E010	08-28-84	71	-	-	-	-	-	-	6.0	-
19E010	08-06-85	86	-	-	-	10	-	-	7.4	-
19E010	07-01-88	72	5.7	0.1	0.02	10	<0.02	0.01	3.1	-
19E010	08-01-88	69	5.9	<0.1	0.02	10	<0.02	0.09	3.9	2.9
19E010	06-09-91	75	5.7	0.4	0.02	10	<0.02	-	-	5.1
19E011	08-03-61	47	6.5	0.2	-	14	-	-	-	-
19E011	03-12-74	5.8	6.6	0.1	-	11	<0.01	-	-	-
19E011	08-01-78	4.4	-	-	-	-	-	-	-	-
19E011	10-17-79	3.2	-	-	-	-	0.04	-	9.1	-
19E011	06-03-91	4.1	8.5	0.1	0.03	10	<0.02	-	-	6.1
19E017	08-09-85	16	-	-	-	74	-	-	0.7	-
19E017	08-05-88	14	2.8	0.4	0.02	28	<0.02	0.01	1.4	1.2
19E017	06-03-91	13	2.8	0.2	0.02	26	<0.02	-	-	1.3
19E024	06-19-74	-	2.6	0.5	-	46	<0.01	-	-	-
19E024	06-07-91	4.8	2.7	0.5	0.02	35	<0.02	-	-	0.6
19E041	06-18-70	1.6	3.0	0.1	-	33	-	-	-	-
19E041	03-12-74	2.8	2.8	0.3	-	36	0.01	-	-	-
19E041	08-01-78	5.0	-	-	-	-	-	-	-	-
19E041	10-17-79	2.7	-	-	-	-	0.03	-	6.2	-
19E041	05-18-82	5.0	3.7	0.3	-	32	-	0.11	1.4	-
19E041	08-30-82	4.0	3.2	0.4	-	34	<0.1	0.08	1.0	-
19E041	05-16-83	5.0	-	-	-	34	-	-	2.3	-
19E041	08-29-83	4.0	-	-	-	35	-	-	2.1	-
19E041	04-25-84	4.2	-	-	-	-	-	-	1.4	-
19E041	08-28-84	5.1	-	-	-	-	-	-	1.5	-
19E041	08-06-85	5.1	-	-	-	38	-	-	2.4	-
19E041	07-01-88	4.7	3.2	0.4	0.02	29	<0.02	0.09	1.7	-
19E041	08-01-88	4.7	3.5	0.4	0.02	29	0.03	0.08	1.8	1.0
19E041	06-09-91	8.4	3.4	0.2	0.02	26	<0.02	-	-	1.3
19E055	08-09-85	6.2	-	-	-	36	-	-	1.1	-
19E055	06-07-91	3.2	3.0	0.1	0.01	27	<0.02	-	-	1.1
19E056	06-07-91	<0.1	3.7	0.1	0.02	26	<0.02	-	-	1.5
19E057	06-07-91	1.2	2.7	0.3	0.01	30	<0.02	-	-	0.7

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, at 25 deg. C (uS/cm)	pH, field (standard units)	Water temperature (deg. C)	Color (plat-inum-cobalt units)	Oxygen, dissolved (mg/L)	Methane diss. (ug/L as CH4)
19E061	08-05-88	215	165	215	270	7.83	22.9	<5	<0.1	5
19E061	06-03-91	215	165	215	260	7.65	22.9	5	<0.1	10
19E063	08-08-85	220	155	220	380	7.8	22.0	10	0.2	-
19E067	08-08-85	250	190	250	285	7.8	22.5	10	0.1	-
19E067	06-07-91	250	190	250	285	7.80	21.2	5	0.1	47
19E068	08-07-85	225	199	225	215	7.7	21.0	20	0.5	-
19E068	06-07-91	225	199	225	225	7.77	20.7	5	0.9	13
19E069	08-07-85	290	190	290	190	8.1	22.0	10	0.2	-
19E069	06-30-88	290	190	290	180	8.20	22.0	<5	<0.1	-
19E069	06-11-91	290	190	290	185	8.07	21.4	5	<0.1	-
19E070	08-07-85	200	160	180	190	7.6	21.5	25	0.1	-
19E070	08-03-88	200	160	180	200	7.72	20.1	10	<0.1	130
19E070	06-03-91	200	160	180	195	7.79	20.1	20	0.1	120
19E071	06-27-88	109	49	109	280	7.45	21.5	<5	<0.1	-
19E071	08-05-88	109	49	109	295	7.61	20.7	<5	<0.1	3
19E071	06-04-91	109	49	109	290	7.56	21.0	5	0.2	2
19E072	06-29-88	-	-	-	270	7.77	21.5	<5	<0.1	-
19E073	08-05-88	290	190	290	275	7.76	21.8	<5	<0.1	26
19E073	06-03-91	290	190	290	275	7.81	21.8	5	1.2	27
19E074	06-27-88	256	-	-	260	7.63	22.0	<5	<0.1	-
19E074	08-07-88	256	-	-	290	7.76	19.8	<5	<0.1	33
19E074	06-09-91	256	-	-	290	7.84	20.0	5	<0.1	-
19E075	06-07-91	240	180	240	260	7.86	21.5	5	<0.1	33
19E076	06-07-91	200	160	200	215	7.87	21.1	5	0.1	14
19E077	06-10-91	140	120	140	315	7.75	21.2	5	0.1	-
19E081	08-06-85	-	-	-	190	7.4	-	25	2.8	-
19E081	07-01-88	-	-	-	200	8.08	21.5	5	<0.1	-
19E081	08-04-88	-	-	-	205	7.98	21.9	<5	<0.1	93
19E081	06-03-91	-	-	-	210	8.10	22.0	10	0.3	-
19E087	06-10-91	44	24	44	34	5.06	22.0	5	2.0	-
19F011	08-08-85	112	82	112	255	7.4	20.5	25	0.1	-
19F011	06-05-91	112	82	112	250	7.52	19.7	10	0.2	1100
19F018	07-10-63	230	144	230	260	7.9	23.0	5	-	-
19F018	04-18-74	230	144	230	280	7.4	19.8	<5	-	-
19F018	08-12-88	230	144	230	275	7.68	20.8	<5	<0.1	8
19F018	06-10-91	230	144	230	290	7.74	20.5	5	0.4	-
19F020	03-15-74	360	126	360	200	7.9	20.7	5	-	-
19F020	06-10-91	360	126	360	200	7.87	21.5	5	0.2	-
19F031	08-08-85	180	158	180	280	7.7	22.0	5	0.2	-
19F031	06-30-88	180	158	180	270	7.90	21.0	<5	<0.1	-
19F031	06-04-91	180	158	180	280	7.78	20.8	5	<0.1	160
19F038	03-14-74	300	180	300	195	8.0	19.9	10	-	-
19F038	05-18-82	300	180	300	190	7.9	22.0	<5	-	-
19F038	08-31-82	300	180	300	200	7.6	21.5	15	-	-
19F038	05-17-83	300	180	300	200	8.0	21.5	15	0.6	-
19F038	08-30-83	300	180	300	200	8.0	21.7	5	-	-
19F038	04-24-84	300	180	300	215	8.0	21.0	5	-	-
19F038	08-29-84	300	180	300	205	7.7	21.5	<5	-	-
19F039	05-04-72	450	350	450	-	-	-	-	-	-
19F039	03-27-74	450	350	450	140	7.5	17.8	90	-	-
19F039	06-05-91	450	350	400	135	7.97	20.5	200	0.1	72
19F049	08-09-88	188	153	188	210	7.96	21.1	<5	<0.1	390
19F049	06-04-91	188	153	188	215	7.90	21.5	5	1.3	200
19F053	06-11-91	180	155	180	270	7.84	21.8	5	0.1	-
19F055	08-29-84	400	200	400	175	7.9	22.0	5	-	-
19F055	08-06-85	400	200	400	205	7.9	-	20	0.1	-
19F055	07-01-88	400	200	400	195	8.09	21.5	<5	<0.1	-
19F055	08-02-88	400	200	400	205	7.94	21.7	<5	<0.1	930
19F055	06-08-89	400	200	400	195	8.0	-	-	-	-
19F055	06-09-91	400	200	400	210	7.96	21.8	5	<0.1	-
19F057	08-06-85	220	190	220	195	8.0	23.0	5	2.6	-
19F057	06-07-91	220	190	220	200	8.14	20.0	5	3.8	9
19F058	08-08-85	195	60	195	205	7.9	22.0	10	0.2	-
19F061	06-28-88	207	130	207	210	8.02	21.8	<5	<0.1	-
19F061	08-08-88	207	130	207	225	7.89	21.8	<5	<0.1	16

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Radon 222, total (pCi/L)	Sulfide, total (mg/L)	Alkalinity, field (mg/l as CaCO3)	Alkalinity, lab (mg/l as CaCO3)	Solids, residue at 180 deg. C, dissolved (mg/L)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)
19E061	08-05-88	-	<0.01	134	134	186	32	13	4.6	1.1
19E061	06-03-91	710	<0.01	135	135	-	33	13	4.5	1.2
19E063	08-08-85	-	0.2	112	-	178	-	-	-	-
19E067	08-08-85	-	1.4	87	-	212	-	-	-	-
19E067	06-07-91	-	0.94	-	93.6	-	38	11	3.0	1.1
19E068	08-07-85	-	<0.1	108	-	142	-	-	-	-
19E068	06-07-91	-	<0.01	114	112	-	31	7.6	3.3	0.77
19E069	08-07-85	-	0.3	93	-	127	-	-	-	-
19E069	06-30-88	-	0.15	91	93.4	132	22	8.5	3.2	0.80
19E069	06-11-91	-	0.10	-	93.6	-	23	8.2	3.3	0.75
19E070	08-07-85	-	2.2	83	-	127	-	-	-	-
19E070	08-03-88	-	1.2	93	93.0	134	31	4.5	3.5	0.52
19E070	06-03-91	-	2.1	89	89.6	-	30	4.1	3.7	0.52
19E071	06-27-88	-	<0.01	156	151	199	39	14	2.7	0.40
19E071	08-05-88	-	<0.01	150	151	185	37	14	2.7	0.36
19E071	06-04-91	-	<0.01	151	149	-	38	14	2.5	0.37
19E072	06-29-88	-	0.53	148	146	194	37	13	4.4	0.90
19E073	08-05-88	-	0.38	137	137	184	34	13	4.1	1.0
19E073	06-03-91	710	0.20	136	138	-	34	13	4.2	1.1
19E074	06-27-88	-	0.71	-	145	192	37	13	3.8	0.80
19E074	08-07-88	-	0.87	145	145	187	38	13	3.8	0.77
19E074	06-09-91	-	0.70	151	146	-	37	13	4.1	0.88
19E075	06-07-91	-	0.55	124	123	-	34	10	3.0	0.74
19E076	06-07-91	-	0.04	-	97.1	-	30	6.9	2.5	0.67
19E077	06-10-91	-	0.86	-	160	-	41	12	4.9	0.81
19E081	08-06-85	-	0.4	72	-	138	-	-	-	-
19E081	07-01-88	-	1.4	87	89.6	133	29	7.0	2.5	0.70
19E081	08-04-88	-	1.4	88	87.9	138	29	6.7	2.4	0.68
19E081	06-03-91	-	1.7	90	88.2	-	29	7.4	2.7	0.67
19E087	06-10-91	-	<0.01	4	3.6	-	0.8	0.8	2.9	0.24
19F011	08-08-85	-	0.1	123	-	174	-	-	-	-
19F011	06-05-91	-	0.35	132	129	-	33	13	3.9	0.62
19F018	07-10-63	-	-	-	-	180	38	13	2.9	0.4
19F018	04-18-74	-	-	-	-	177	38	11	3.2	0.8
19F018	08-12-88	-	<0.01	139	139	163	40	10	2.7	0.55
19F018	06-10-91	-	0.01	149	144	-	40	11	2.9	0.72
19F020	03-15-74	-	-	-	-	131	28	6.1	2.1	0.5
19F020	06-10-91	-	0.08	104	99.3	-	29	6.3	2.5	0.70
19F031	08-08-85	-	0.3	144	-	170	-	-	-	-
19F031	06-30-88	-	0.16	143	144	177	30	12	3.1	0.90
19F031	06-04-91	-	0.16	144	147	-	39	11	3.0	1.0
19F038	03-14-74	-	-	-	-	144	26	7.4	3.4	0.7
19F038	05-18-82	-	-	105	-	-	26	7.9	3.3	0.4
19F038	08-31-82	-	-	107	-	-	23	7.9	3.8	0.7
19F038	05-17-83	-	-	100	-	127	-	-	-	-
19F038	08-30-83	-	-	130	-	146	-	-	-	-
19F038	04-24-84	-	-	128	-	155	-	-	-	-
19F038	08-29-84	-	-	127	-	132	-	-	-	-
19F039	05-04-72	-	-	-	72	-	-	-	-	-
19F039	03-27-74	-	-	-	-	96	19	2.6	6.4	1.1
19F039	06-05-91	-	0.11	56	49.7	-	18	2.6	5.9	2.1
19F049	08-09-88	-	0.06	104	104	136	27	9.4	3.3	0.71
19F049	06-04-91	-	0.01	109	105	-	27	9.6	3.6	0.83
19F053	06-11-91	-	0.65	-	137	-	36	11	3.0	y 0.89
19F055	08-29-84	-	-	134	-	141	-	-	-	-
19F055	08-06-85	-	0.6	101	-	132	-	-	-	-
19F055	07-01-88	-	0.29	112	99.8	134	32	5.4	2.7	0.60
19F055	08-02-88	-	0.31	-	101	142	32	5.6	2.7	0.55
19F055	06-08-89	-	0.30	-	-	-	-	-	-	-
19F055	06-09-91	-	0.40	106	100	-	32	5.8	2.8	0.67
19F057	08-06-85	-	<0.1	94	-	147	-	-	-	-
19F057	06-07-91	320	<0.01	-	99	-	25	8.4	4.2	0.98
19F058	08-08-85	-	<0.1	101	-	133	-	-	-	-
19F061	06-28-88	-	<0.01	-	114	151	28	10	3.0	0.90
19F061	08-08-88	-	<0.01	114	114	147	29	9.9	3.2	0.84

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Sulfate, dis-solved (mg/L as SO ₄)	Chloride, dis-solved (mg/L)	Fluoride, dis-solved (mg/L)	Bromide, dis-solved (mg/L)	Silica, dis-solved (mg/L SiO ₂)	NO ₂ +NO ₃ , dis-solved (mg/L as N)	Phosphorus ortho, dis-solved (mg/L as P)	Carbon, organic total (mg/L)	Carbon, organic dis-solved (mg/L)
19E061	08-05-88	7.0	3.1	0.8	0.02	36	<0.02	0.03	0.6	0.7
19E061	06-03-91	6.5	3.1	0.5	0.02	32	<0.02	-	-	0.3
19E063	08-08-85	12	-	-	-	48	-	-	1.6	-
19E067	08-08-85	54	-	-	-	36	-	-	2.4	-
19E067	06-07-91	46	2.9	0.2	0.01	26	<0.02	-	-	1.4
19E068	08-07-85	0.5	-	-	-	41	-	-	<0.1	-
19E068	06-07-91	0.4	2.9	0.1	0.02	30	<0.02	-	-	0.2
19E069	08-07-85	0.8	-	-	-	39	-	-	1.0	-
19E069	06-30-88	0.4	2.6	0.5	0.01	31	<0.02	0.02	1.5	-
19E069	06-11-91	0.4	3.0	0.3	0.02	28	<0.02	-	-	1.2
19E070	08-07-85	9.1	-	-	-	18	-	-	1.2	-
19E070	08-03-88	3.3	4.9	0.2	0.02	18	<0.02	0.14	-	2.0
19E070	06-03-91	1.4	5.3	0.4	0.02	15	<0.02	-	-	3.8
19E071	06-27-88	2.9	3.5	0.3	0.02	40	<0.02	0.02	0.7	-
19E071	08-05-88	3.8	3.6	0.1	0.02	37	<0.02	0.02	0.4	0.7
19E071	06-04-91	2.0	3.8	0.1	0.02	38	<0.02	-	-	0.3
19E072	06-29-88	4.3	4.4	0.3	0.02	30	<0.02	0.02	1.6	-
19E073	08-05-88	5.9	3.4	0.6	0.02	33	<0.02	0.01	0.7	0.6
19E073	06-03-91	5.1	3.4	0.3	0.02	32	<0.02	-	-	0.5
19E074	06-27-88	5.2	3.7	0.5	0.02	33	<0.02	0.04	2.2	-
19E074	08-07-88	4.7	3.8	0.4	0.01	30	<0.02	0.05	1.2	0.8
19E074	06-09-91	4.3	4.5	0.2	0.02	29	<0.02	-	-	0.9
19E075	06-07-91	6.0	3.2	0.2	0.02	31	<0.02	-	-	0.8
19E076	06-07-91	6.5	3.2	0.4	0.02	38	<0.02	-	-	0.3
19E077	06-10-91	0.4	3.4	0.2	0.02	31	<0.02	-	-	1.8
19E081	08-06-85	20	-	-	-	15	-	-	5.4	-
19E081	07-01-88	11	3.0	0.4	0.02	18	0.02	0.01	3.1	-
19E081	08-04-88	11	3.1	0.2	0.02	17	<0.02	0.01	2.8	1.5
19E081	06-03-91	14	3.1	0.2	0.01	18	<0.02	-	2.1	2.1
19E087	06-10-91	0.1	5.0	0.1	0.01	8.1	0.71	-	-	0.3
19F011	08-08-85	5.3	-	-	-	37	-	-	2.5	-
19F011	06-05-91	4.3	5.9	0.1	0.02	30	<0.02	-	-	2.4
19F018	07-10-63	0.4	4.0	0.3	-	31	-	-	-	-
19F018	04-18-74	1.6	3.7	0.3	-	33	0.06	-	-	-
19F018	08-12-88	2.6	3.6	0.4	0.02	26	<0.02	0.09	0.5	0.7
19F018	06-10-91	1.4	3.8	0.2	0.02	25	<0.02	-	-	0.3
19F020	03-15-74	0.8	2.7	0.1	-	33	0.01	-	-	-
19F020	06-10-91	<0.1	3.0	0.2	0.01	24	<0.02	-	-	1.2
19F031	08-08-85	1.7	-	-	-	34	-	-	2.6	-
19F031	06-30-88	0.9	3.4	0.3	0.02	27	<0.02	0.05	1.1	-
19F031	06-04-91	0.5	3.7	0.2	0.02	23	<0.02	-	-	1.1
19F038	03-14-74	1.2	4.5	0.1	-	32	<0.01	-	-	-
19F038	05-18-82	2.0	3.5	0.3	-	31	<0.1	0.05	1.5	-
19F038	08-31-82	2.0	3.0	0.3	-	32	<0.1	0.07	1.1	-
19F038	05-17-83	<5.0	-	-	-	33	-	-	2.2	-
19F038	08-30-83	2.0	-	-	-	33	-	-	2.6	-
19F038	04-24-84	1.5	-	-	-	-	-	-	1.7	-
19F038	08-29-84	1.8	-	-	-	-	-	-	1.5	-
19F039	05-04-72	-	-	-	-	-	-	-	-	-
19F039	03-27-74	5.0	7.6	0.2	-	8.3	0.04	-	-	-
19F039	06-05-91	2.3	8.0	<0.1	0.03	8.3	<0.02	-	18	17
19F049	08-09-88	1.4	5.0	0.5	0.02	33	<0.02	0.01	2.6	2.3
19F049	06-04-91	0.4	5.0	0.3	0.02	32	<0.02	-	-	2.7
19F053	06-11-91	<0.1	3.7	0.2	0.02	26	<0.02	-	-	0.5
19F055	08-29-84	1.6	-	-	-	-	-	-	1.8	-
19F055	08-06-85	2.4	-	-	-	27	-	-	2.7	-
19F055	07-01-88	1.9	3.1	0.2	0.02	23	0.12	0.33	2.5	-
19F055	08-02-88	2.9	3.3	0.3	0.01	22	<0.02	0.10	3.0	2.0
19F055	06-08-89	-	-	-	-	-	-	-	2.4	-
19F055	06-09-91	3.1	3.3	0.1	0.02	20	<0.02	-	-	2.2
19F057	08-06-85	2.1	-	-	-	50	-	-	0.6	-
19F057	06-07-91	2.4	3.1	0.3	0.02	37	<0.02	-	-	0.2
19F058	08-08-85	0.9	-	-	-	34	-	-	2.5	-
19F061	06-28-88	0.9	2.8	0.3	0.01	31	<0.02	0.03	0.6	-
19F061	08-08-88	1.9	2.8	0.4	0.01	30	<0.02	0.03	0.3	0.3

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, at 25 deg. C (uS/cm)	pH, field (standard units)	Water temperature (deg. C)	Color (platinum-cobalt units)	Oxygen, dissolved (mg/L)	Methane diss. (ug/L as CH ₄)
19F061	06-04-91	207	130	207	230	7.82	21.7	5	0.3	13
19F062	06-29-88	160	130	160	255	8.01	21.0	<5	<0.1	-
19F062	08-08-88	160	130	160	261	7.92	21.2	<5	<0.1	260
19F062	06-04-91	160	130	160	265	7.92	21.1	5	0.2	310
19F063	06-28-88	180	140	180	230	7.43	21.0	<5	<0.1	-
19F063	08-12-88	180	140	180	-	-	-	-	-	-
19F064	06-29-88	200	165	200	205	7.96	21.5	<5	<0.1	-
19F065	06-28-88	160	130	160	230	7.92	21.0	<5	1.9	-
19F066	06-28-88	130	120	130	170	7.58	21.0	60	<0.1	-
19F066	06-05-91	130	120	130	110	7.05	22.6	170	1.6	53
19F068	06-29-88	170	140	170	110	6.38	20.5	<5	3.4	-
19F069	06-29-88	277	172	277	180	7.87	21.5	<5	<0.1	-
19F069	06-04-91	277	172	277	190	7.85	21.2	5	0.3	200
19F070	06-29-88	175	127	175	210	7.88	21.5	<5	<0.1	-
19F070	08-02-88	175	127	175	220	7.82	21.2	<5	<0.1	3
19F070	06-04-91	175	127	175	220	7.86	21.4	5	0.2	4
19F073	08-12-88	-	-	-	-	-	-	-	-	-
19F075	07-01-88	240	185	240	140	8.23	21.5	20	<0.1	-
19F075	08-03-88	240	185	240	145	8.24	21.3	10	<0.1	1800
19F075	06-04-91	240	185	240	145	8.25	21.5	30	0.1	2300
19F080	08-09-88	165	135	165	220	7.95	20.7	<5	<0.1	66
19F080	06-04-91	165	135	165	215	7.87	20.8	5	0.1	110
19F081	08-09-88	180	172	180	200	8.01	21.4	<5	<0.1	-
19F081	06-04-91	180	172	180	205	7.93	21.4	5	0.1	62
19F082	08-12-88	161	138	161	225	7.51	20.2	<5	<0.1	1700
19F082	06-06-91	161	138	161	230	7.42	20.0	5	<0.1	1600
19F083	08-12-88	132	124	132	220	8.02	21.4	<5	<0.1	10
19F083	06-05-91	132	124	132	220	8.08	21.5	5	0.1	16
19F085	12-06-88	96	86	96	48	7.04	16.9	<5	4.4	-
19F090	12-06-88	240	220	240	230	7.86	21.3	<5	<0.1	-
19F090	06-05-91	240	220	240	220	7.88	21.4	5	<0.1	66
19F096	12-06-88	190	160	190	225	7.84	21.2	<5	<0.1	-
19F096	06-05-91	190	160	190	220	7.90	21.5	5	<0.1	78
19F097	12-06-88	330	155	330	220	8.15	21.3	<5	<0.1	-
19F097	06-05-91	330	155	330	215	8.25	21.8	5	0.1	190
19F100	06-08-89	450	430	430	220	8.1	-	-	-	-
19F100	06-08-89	450	400	400	200	8.1	-	-	-	-
19F100	06-08-89	450	350	350	200	8.0	-	-	-	-
19F100	06-08-89	450	300	300	200	8.1	-	-	-	-
19F100	06-08-89	450	260	260	200	8.1	-	-	-	-
19F100	06-08-89	450	210	210	200	8.0	-	-	-	-
19F100	06-08-89	450	195	195	200	8.0	-	-	-	-
19F100	06-12-89	450	430	430	-	-	-	-	-	-
19F100	06-12-89	450	400	400	-	-	-	-	-	-
19F100	06-12-89	450	350	350	-	-	-	-	-	-
19F100	06-05-91	450	195	450	205	8.03	22.0	5	<0.1	110
19F100	04-01-93	450	195	450	270	7.86	22.0	<5	0.1	-
19F101	06-05-91	450	180	450	210	8.03	22.0	5	<0.1	85
19F101	04-01-93	450	180	450	215	7.89	21.5	<5	0.2	-
19F101	05-11-93	450	180	450	215	7.97	22.0	-	<0.1	-
19F104	06-07-91	200	180	200	230	7.81	21.5	5	0.5	6
19F106	06-07-91	-	158	-	190	7.87	20.0	20	<0.1	460
19F108	08-06-85	300	190	300	205	7.9	23.5	10	0.1	-
19F108	06-11-91	300	190	300	200	8.00	21.4	5	<0.1	-
19F110	04-02-93	430	177	430	215	7.81	21.0	-	0.2	-
19G015	06-10-91	100	80	100	31	5.03	21.9	5	7.7	-
19H026	08-02-61	450	265	450	385	7.5	23.5	<5	-	-
19H026	06-11-91	450	265	450	440	7.70	22.4	5	0.1	-
19H027	06-11-91	550	180	550	445	7.70	22.6	5	0.3	-
20D030	08-04-88	150	124	150	310	7.40	20.7	<5	<0.1	180
20D030	06-06-91	150	124	150	300	7.53	20.6	5	0.2	210
20E011	05-02-74	230	165	230	155	7.8	20.1	5	-	-
20E011	06-06-91	230	165	230	160	7.98	21.1	10	0.5	1400
20E013	08-07-85	240	155	240	150	8.2	21.0	20	0.2	-
20E013	08-06-88	240	155	240	150	8.26	20.0	5	<0.1	1500

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Radon 222, total (pCi/L)	Sulfide, total (mg/L)	Alkalinity, field (mg/l as CaCO ₃)	Alkalinity, lab (mg/l as CaCO ₃)	Solids, residue at 180 deg. C, dissolved (mg/L)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)
19F061	06-04-91	-	<0.01	118	118	-	29	10	3.4	1.1
19F062	06-29-88	-	0.32	-	137	183	32	13	4.9	1.0
19F062	08-08-88	-	0.19	138	139	173	33	13	4.9	0.96
19F062	06-04-91	-	0.30	139	138	-	32	13	5.1	0.99
19F063	06-28-88	-	0.06	-	118	185	30	10	4.7	1.0
19F063	08-12-88	-	-	-	-	-	-	-	-	-
19F064	06-29-88	-	<0.01	111	109	157	29	8.5	3.2	0.80
19F065	06-28-88	-	<0.01	-	124	169	32	11	2.4	0.90
19F066	06-28-88	-	<0.01	75	68.8	126	17	7.2	7.7	1.1
19F066	06-05-91	-	0.05	36	37.7	-	9.5	4.7	7.5	2.1
19F068	06-29-88	-	0.02	48	47.8	112	14	3.8	3.2	0.80
19F069	06-29-88	-	<0.01	-	97.6	135	31	4.5	2.3	0.60
19F069	06-04-91	-	0.02	97	98.2	-	32	4.3	2.4	0.53
19F070	06-29-88	-	<0.01	118	113	162	33	7.1	3.3	0.90
19F070	08-02-88	-	<0.01	114	114	164	34	6.7	3.2	0.78
19F070	06-04-91	660	<0.01	114	114	-	34	6.8	3.3	0.82
19F073	08-12-88	-	-	-	-	-	-	-	-	-
19F075	07-01-88	-	0.16	-	69.4	87	21	4.5	2.3	0.50
19F075	08-03-88	-	0.16	69	69.2	98	21	4.5	2.3	0.46
19F075	06-04-91	-	0.13	71	68.1	-	21	4.1	2.4	0.53
19F080	08-09-88	-	<0.01	114	114	133	29	9.8	3.0	0.71
19F080	06-04-91	-	0.06	107	108	-	28	9.0	3.2	0.77
19F081	08-09-88	-	<0.01	102	102	131	27	8.1	2.8	0.68
19F081	06-04-91	-	<0.01	104	102	-	27	8.1	2.9	0.69
19F082	08-12-88	-	<0.01	111	111	151	36	5.2	3.4	0.59
19F082	06-06-91	-	0.02	-	114	-	36	5.5	3.4	0.70
19F083	08-12-88	-	<0.01	113	114	139	25	12	3.4	0.78
19F083	06-05-91	-	<0.01	116	112	-	24	12	3.3	0.89
19F085	12-06-88	-	0.06	13	13.4	72	4.5	1.2	1.6	0.70
19F090	12-06-88	-	<0.01	119	115	146	29	9.8	2.8	1.1
19F090	06-05-91	160	0.02	116	115	-	29	9.8	2.8	1.1
19F096	12-06-88	-	<0.01	115	111	146	32	6.4	2.9	0.80
19F096	06-05-91	-	<0.01	111	110	-	33	6.4	2.9	0.70
19F097	12-06-88	-	0.07	112	108	137	33	5.5	2.7	1.0
19F097	06-05-91	240	0.12	-	109	-	34	5.2	2.7	0.75
19F100	06-08-89	-	0.70	-	-	-	-	-	-	-
19F100	06-08-89	-	0.60	-	-	-	-	-	-	-
19F100	06-08-89	-	0.40	-	-	-	-	-	-	-
19F100	06-08-89	-	0.50	-	-	-	-	-	-	-
19F100	06-08-89	-	0.50	-	-	-	-	-	-	-
19F100	06-08-89	-	0.50	-	-	-	-	-	-	-
19F100	06-08-89	-	0.30	-	-	-	-	-	-	-
19F100	06-12-89	-	-	-	-	-	-	-	-	-
19F100	06-12-89	-	-	-	-	-	-	-	-	-
19F100	06-12-89	-	-	-	-	-	-	-	-	-
19F100	06-05-91	-	0.40	107	103	-	33	5.0	2.2	0.53
19F100	04-01-93	-	0.56	102	101	182	41	8.1	-	-
19F101	06-05-91	220	0.20	110	106	-	33	5.7	2.6	0.67
19F101	04-01-93	-	0.12	109	108	147	31	7.4	-	-
19F101	05-11-93	-	0.16	109	-	-	-	-	-	-
19F104	06-07-91	210	<0.01	123	118	-	34	7.4	3.7	0.88
19F106	06-07-91	-	0.10	92	90.8	-	28	5.4	2.8	0.70
19F108	08-06-85	-	0.3	102	-	136	-	-	-	-
19F108	06-11-91	-	0.06	107	102	-	28	7.6	3.3	0.80
19F110	04-02-93	-	0.05	110	-	-	-	-	-	-
19G015	06-10-91	-	<0.01	2	2.9	-	0.7	0.5	3.4	0.17
19H026	08-02-61	-	-	-	-	300	50	18	4.8	1.0
19H026	06-11-91	-	0.01	-	113	-	51	19	4.7	1.0
19H027	06-11-91	-	<0.01	-	113	-	50	19	5.1	1.2
20D030	08-04-88	-	0.01	160	160	203	43	12	3.2	1.2
20D030	06-06-91	-	0.01	-	160	-	43	12	3.1	1.3
20E011	05-02-74	-	-	-	-	90	23	5.8	2.7	0.7
20E011	06-06-91	-	0.05	-	76.9	-	22	5.3	2.3	0.52
20E013	08-07-85	-	0.6	74	-	105	-	-	-	-
20E013	08-06-88	-	0.23	72.7	73.3	109	21	5.7	2.1	0.56

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Sulfate, dis-solved (mg/L as SO4)	Chloride, dis-solved (mg/L)	Fluoride, dis-solved (mg/L)	Bromide, dis-solved (mg/L)	Silica, dis-solved (mg/L SiO2)	NO2+NO3, dis-solved (mg/L as N)	Phosphorus ortho, dis-solved (mg/L as P)	Carbon, organic total (mg/L)	Carbon, organic dis-solved (mg/L)
19F061	06-04-91	1.0	2.7	0.2	0.02	31	<0.02	-	-	0.3
19F062	06-29-88	1.0	3.7	0.3	0.02	37	<0.02	0.02	1.3	-
19F062	08-08-88	0.7	3.6	0.4	0.02	35	<0.02	0.02	1.3	1.1
19F062	06-04-91	0.5	3.5	0.2	0.02	31	<0.02	-	1.0	1.0
19F063	06-28-88	5.2	3.0	1.1	0.01	48	<0.02	0.07	0.4	-
19F063	08-12-88	-	-	-	-	-	-	-	-	-
19F064	06-29-88	0.8	3.0	0.4	0.01	34	<0.02	0.03	0.6	-
19F065	06-28-88	1.3	2.7	0.2	0.02	37	0.02	0.02	0.3	-
19F066	06-28-88	4.3	9.6	0.2	0.03	14	0.07	0.20	8.7	-
19F066	06-05-91	3.1	9.5	<0.1	0.05	13	0.11	-	21	19
19F068	06-29-88	0.6	3.5	0.6	0.02	47	0.16	1.2	0.4	-
19F069	06-29-88	0.1	2.5	0.3	0.01	24	<0.02	0.12	1.3	-
19F069	06-04-91	<0.1	2.6	0.1	0.01	20	<0.02	-	1.0	1.0
19F070	06-29-88	1.7	2.8	0.3	0.01	38	<0.02	0.03	0.6	-
19F070	08-02-88	1.5	2.9	0.3	0.01	36	<0.02	0.04	1.0	0.7
19F070	06-04-91	1.5	2.9	0.2	0.02	33	<0.02	-	0.4	0.4
19F073	08-12-88	-	-	-	-	-	-	-	-	-
19F075	07-01-88	<0.1	3.4	0.2	0.02	14	<0.02	0.03	4.7	-
19F075	08-03-88	<0.1	3.4	0.2	0.01	13	<0.02	0.03	5.7	4.7
19F075	06-04-91	<0.1	3.4	0.1	0.02	12	<0.02	-	-	5.2
19F080	08-09-88	0.2	2.7	0.4	0.01	28	<0.02	0.04	1.2	1.0
19F080	06-04-91	0.6	3.2	0.3	0.02	23	<0.02	-	-	1.3
19F081	08-09-88	0.9	2.7	0.4	0.01	35	<0.02	0.01	0.3	0.7
19F081	06-04-91	0.9	2.6	0.2	0.01	33	<0.02	-	-	0.4
19F082	08-12-88	<0.1	4.1	0.2	0.02	29	<0.02	0.20	3.8	3.4
19F082	06-06-91	<0.1	4.2	0.3	0.02	28	<0.02	-	2.5	2.5
19F083	08-12-88	0.4	2.9	0.6	0.01	32	<0.02	0.01	0.6	0.5
19F083	06-05-91	0.4	2.8	0.4	0.01	28	<0.02	-	0.3	0.3
19F085	12-06-88	0.2	2.4	1.1	0.01	43	0.03	2.1	0.2	0.2
19F090	12-06-88	0.2	2.5	0.5	0.02	35	<0.02	0.02	0.6	-
19F090	06-05-91	0.2	2.6	0.4	0.01	33	<0.02	-	-	0.5
19F096	12-06-88	1.1	3.1	0.2	0.02	29	<0.02	0.05	0.4	-
19F096	06-05-91	0.8	3.2	0.1	0.02	27	<0.02	-	-	0.6
19F097	12-06-88	0.3	2.7	0.2	0.02	28	<0.02	0.08	0.5	-
19F097	06-05-91	0.1	2.9	<0.1	0.02	24	<0.02	-	-	0.6
19F100	06-08-89	-	-	-	-	-	-	-	-	-
19F100	06-08-89	-	-	-	-	-	-	-	-	-
19F100	06-08-89	-	-	-	-	-	-	-	-	-
19F100	06-08-89	-	-	-	-	-	-	-	1.1	-
19F100	06-08-89	-	-	-	-	-	-	-	1.1	-
19F100	06-08-89	-	-	-	-	-	-	-	1.0	-
19F100	06-08-89	-	-	-	-	-	-	-	1.0	-
19F100	06-12-89	-	-	-	-	-	-	-	1.3	-
19F100	06-12-89	-	-	-	-	-	-	-	1.2	-
19F100	06-12-89	-	-	-	-	-	-	-	1.2	-
19F100	06-05-91	2.2	2.6	0.2	0.01	20	<0.02	-	0.9	0.9
19F100	04-01-93	31	2.8	0.2	<0.10	27	-	-	1.9	-
19F101	06-05-91	1.4	2.7	0.1	0.01	23	<0.02	-	0.7	0.7
19F101	04-01-93	2.6	2.9	0.2	<0.10	34	-	-	2.0	1.6
19F101	05-11-93	-	2.9	-	-	-	-	-	3.7	3.6
19F104	06-07-91	1.8	3.2	0.2	0.02	30	<0.02	-	-	0.2
19F106	06-07-91	0.3	4.7	0.2	0.02	20	<0.02	-	-	2.9
19F108	08-06-85	1.4	-	-	-	38	-	-	2.0	-
19F108	06-11-91	0.8	3.3	0.2	0.02	25	<0.02	-	-	1.5
19F110	04-02-93	-	3.0	-	-	-	-	-	1.4	-
19G015	06-10-91	0.3	3.8	<0.1	0.02	7.1	0.99	-	-	0.1
19H026	08-02-61	82	4.0	0.5	-	32	-	-	-	-
19H026	06-11-91	96	4.3	0.3	0.02	27	<0.02	-	-	1.0
19H027	06-11-91	97	4.8	0.3	0.02	27	<0.02	-	-	0.3
20D030	08-04-88	0.2	3.4	0.6	0.01	36	<0.02	0.04	1.3	1.2
20D030	06-06-91	0.20	3.5	0.3	0.02	33	<0.02	-	-	0.9
20E011	05-02-74	0.7	2.8	0.4	-	21	<0.01	-	-	-
20E011	06-06-91	0.1	2.7	0.2	0.01	16	<0.02	-	-	2.7
20E013	08-07-85	0.7	-	-	-	29	-	-	4.4	-
20E013	08-06-88	<0.1	3.8	0.5	0.01	24	0.02	0.02	1.9	-

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Specific conductance, at 25 deg. C (uS/cm)	pH, field (standard units)	Water temperature (deg. C)	Color (platinum-cobalt units)	Oxygen, dissolved (mg/L)	Methane diss. (ug/L as CH4)
20E016	08-08-85	164	120	164	210	8.2	22.0	10	0.2	-
20E016	08-04-88	164	120	164	210	7.90	21.6	<5	<0.1	28
20E016	06-03-91	164	120	164	210	7.75	21.5	5	0.1	16
20E017	08-05-85	250	190	250	180	8.0	21.0	20	0.5	-
20E017	08-06-88	250	190	250	180	8.20	20.5	5	<0.1	880
20E017	06-06-91	250	190	250	185	8.11	20.4	10	0.4	880
20E018	08-07-85	190	-	-	260	7.7	22.0	10	0.2	-
20E018	08-04-88	190	-	-	260	7.68	21.3	<5	<0.1	27
20E018	06-04-91	190	-	-	265	7.88	21.2	5	0.1	30
20E019	08-07-85	280	169	280	170	8.0	22.0	20	0.1	-
20E019	08-03-88	280	169	280	170	8.25	20.8	<5	<0.1	740
20E019	06-09-91	280	169	280	175	8.11	20.8	20	0.1	-
20E021	06-06-91	210	160	210	150	8.18	20.2	20	0.1	1600
20E022	06-06-91	201	183	201	175	8.06	21.4	10	0.1	1200
20E028	06-06-91	190	-	-	190	7.94	21.3	10	0.1	1400
20E030	06-08-91	190	-	-	210	7.87	21.0	5	<0.1	200
20E031	06-06-91	192	157	192	185	6.93	20.1	5	0.1	15
20E033	06-06-91	155	-	-	440	7.28	21.2	20	0.1	4400
20F006	03-13-74	440	225	440	290	7.6	22.0	10	-	-
20F006	08-10-88	440	225	440	285	7.33	23.9	<5	2.9	64
20F006	06-06-91	440	225	440	260	7.86	24.0	5	<0.1	230
20F007	03-13-74	195	182	195	255	7.8	20.5	5	-	-
20F007	08-11-88	195	182	195	250	7.92	21.7	<5	<0.1	2
20F007	06-06-91	195	182	195	250	7.93	22.0	5	<0.1	10
20F009	06-07-91	278	223	278	240	8.00	22.0	5	<0.1	25
20F023	06-06-91	257	200	257	225	7.94	22.0	5	<0.1	140
20F024	08-05-85	210	172	210	220	8.0	22.0	15	0.3	-
20F028	08-05-85	208	177	208	190	7.8	21.0	<5	1.9	-
20F029	08-06-85	-	-	-	210	7.9	23.0	10	0.1	-
20F029	06-08-91	-	-	-	210	8.04	22.0	5	<0.1	52
20F030	06-30-88	185	177	185	170	8.22	22.0	<5	<0.1	-
20F030	08-03-88	185	177	185	185	8.01	21.5	<5	<0.1	41
20F030	06-08-91	185	177	185	180	8.07	21.6	5	<0.1	76
20F031	06-30-88	240	180	240	230	8.01	21.5	<5	<0.1	-
20F031	08-02-88	240	180	240	235	7.90	21.5	<5	<0.1	4
20F031	06-09-91	240	180	240	235	7.92	21.3	5	0.1	-
20F037	06-30-88	270	200	270	230	8.01	22.0	<5	<0.1	-
20F037	08-02-88	270	200	270	240	7.90	22.1	<5	<0.1	38
20F037	06-05-91	270	200	270	240	7.87	22.1	5	0.2	28
20F038	12-05-88	280	190	280	240	7.95	22.1	<5	<0.1	-
20F038	06-09-91	280	190	280	230	7.92	22.0	5	<0.1	-
20F043	12-07-88	250	195	250	250	8.06	21.7	<5	<0.1	-
20F043	06-07-91	250	195	250	240	7.95	22.0	5	<0.1	37
20F044	12-07-88	90	80	90	60	5.50	21.1	<5	6.9	-
20F044	06-10-91	90	80	90	58	5.44	21.5	5	7.0	-
20F045	12-07-88	260	200	260	260	7.76	21.8	<5	1.0	-
20F046	12-07-88	250	200	250	265	8.0	22.4	<5	<0.1	-
20F046	06-06-91	250	200	250	260	7.97	22.5	5	<0.1	26
20F047	12-08-88	260	200	260	240	7.97	22.2	<5	0.4	-
20F048	12-08-88	350	200	350	200	8.08	22.1	<5	<0.1	-
20F051	06-09-91	315	206	315	225	7.92	22.0	5	0.1	-
20F052	06-08-91	290	212	290	230	7.94	22.0	5	0.2	-
20F053	06-10-91	55	33	55	28	4.84	20.9	5	7.5	-
20F054	05-11-93	437	206	437	265	7.90	22.0	<5	<0.1	-
20F056	04-02-93	465	205	465	270	7.88	21.5	<5	<0.1	-
20F058	05-11-93	420	203	420	265	7.9	22.5	5	<0.1	-
20F059	04-01-93	442	188	442	335	7.83	22.0	<5	0.1	-
20F060	04-02-93	427	205	427	240	7.89	21.5	<5	<0.1	-
20F061	04-01-93	432	191	432	260	7.88	21.5	<5	0.2	-
20G016	08-10-88	260	190	260	240	8.06	21.7	<5	<0.1	17
20G016	06-05-91	260	190	260	250	8.00	21.5	5	0.1	22
22F001	08-10-88	220	170	220	230	7.97	21.6	<5	<0.1	500
22F001	06-08-91	220	170	220	235	7.82	22.4	5	0.1	-

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Radon 222, total (pCi/L)	Sulfide, total (mg/L)	Alkalinity, field (mg/l as CaCO ₃)	Alkalinity, lab (mg/l as CaCO ₃)	Solids, residue at 180 deg. C, dissolved (mg/L)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)
20E016	08-08-85	-	0.2	91	-	138	-	-	-	-
20E016	08-04-88	-	<0.01	94	94.0	144	32	5.6	2.1	0.64
20E016	06-03-91	240	0.07	98	96.5	-	30	5.7	2.3	0.73
20E017	08-05-85	-	1.0	87	-	125	-	-	-	-
20E017	08-06-88	-	0.49	88.0	88.1	120	22	8.0	3.2	0.85
20E017	06-06-91	-	0.70	89	88.1	-	22	8.0	3.4	0.88
20E018	08-07-85	-	0.2	128	-	176	-	-	-	-
20E018	08-04-88	-	<0.01	132	132	178	34	11	5.1	0.93
20E018	06-04-91	-	0.01	131	132	-	34	11	5.1	0.99
20E019	08-07-85	-	2.4	77	-	113	-	-	-	-
20E019	08-03-88	-	1.8	82.8	82.8	121	23	5.5	2.2	0.50
20E019	06-09-91	-	2.0	-	82.8	-	24	5.5	2.4	0.50
20E021	06-06-91	-	0.40	74	71.1	-	20	5.3	2.7	0.53
20E022	06-06-91	-	0.58	87	82.6	-	24	5.4	2.8	0.61
20E028	06-06-91	-	0.47	98	94.9	-	27	6.1	2.8	0.61
20E030	06-08-91	-	0.80	107	103	-	29	6.9	3.0	0.80
20E031	06-06-91	-	<0.01	87	85.2	-	16	9.1	6.5	1.5
20E033	06-06-91	-	0.09	235	227	-	71	12	5.9	0.98
20F006	03-13-74	-	-	-	-	207	38	12	3.0	0.6
20F006	08-10-88	-	0.55	103	102	179	38	11	2.9	0.73
20F006	06-06-91	-	1.2	-	108	-	38	9.7	2.8	0.66
20F007	03-13-74	-	-	-	-	175	26	13	3.8	1.1
20F007	08-11-88	-	<0.01	114	115	165	29	13	3.8	1.0
20F007	06-06-91	-	<0.01	118	115	-	29	13	3.9	1.1
20F009	06-07-91	-	0.20	120	118	-	28	12	4.4	1.4
20F023	06-06-91	-	1.2	114	108	-	31	8.6	2.9	0.80
20F024	08-05-85	-	1.3	106	-	155	-	-	-	-
20F028	08-05-85	-	<0.1	86	-	141	-	-	-	-
20F029	08-06-85	-	1.4	97	-	149	-	-	-	-
20F029	06-08-91	-	1.0	-	100	-	26	9.1	3.8	0.92
20F030	06-30-88	-	<0.01	100	88.8	135	21	8.5	4.2	0.80
20F030	08-03-88	-	<0.01	91	90.7	133	21	8.9	4.4	0.74
20F030	06-08-91	800	0.02	91	87.7	-	20	8.6	4.0	0.80
20F031	06-30-88	-	<0.01	117	115	167	31	9.6	3.5	0.90
20F031	08-02-88	-	<0.01	115	115	167	31	10	3.7	0.81
20F031	06-09-91	-	<0.01	119	115	-	31	9.7	3.7	0.93
20F037	06-30-88	-	<0.01	118	117	167	29	12	3.3	1.3
20F037	08-02-88	-	<0.01	118	118	169	29	13	3.4	1.2
20F037	06-05-91	-	0.03	120	118	-	28	12	3.4	1.3
20F038	12-05-88	-	1.1	114	116	146	27	11	3.8	1.5
20F038	06-09-91	-	0.80	120	116	-	28	11	3.9	1.6
20F043	12-07-88	-	0.36	99	102	153	31	8.8	3.6	0.80
20F043	06-07-91	-	0.40	106	103	-	32	8.7	3.6	0.83
20F044	12-07-88	-	<0.01	8	8.0	39	4.9	0.4	4.2	0.50
20F044	06-10-91	-	<0.01	5	7.4	-	4.9	0.6	4.4	0.46
20F045	12-07-88	-	<0.01	-	123	164	32	12	4.0	1.1
20F046	12-07-88	-	0.86	112	109	169	33	11	3.1	1.1
20F046	06-06-91	-	1.1	114	111	-	33	11	3.1	1.1
20F047	12-08-88	-	0.09	105	105	150	33	8.4	2.7	0.70
20F048	12-08-88	-	0.19	-	95.7	129	25	7.8	3.8	0.90
20F051	06-09-91	-	0.90	-	114	-	29	9.5	3.2	0.93
20F052	06-08-91	-	0.20	111	109	-	31	8.8	2.9	0.77
20F053	06-10-91	-	<0.01	2	2.5	-	0.3	0.3	3.1	0.04
20F054	05-11-93	-	2.7	-	91	179	39	8.4	-	-
20F056	04-02-93	-	0.57	-	104	181	41	7.9	-	-
20F058	05-11-93	-	2.7	-	90	183	38	8.4	-	-
20F059	04-01-93	-	1.2	-	100	235	46	14	-	-
20F060	04-02-93	-	0.26	100	98	158	35	7.7	-	-
20F061	04-01-93	-	2.5	-	88	179	39	8.4	-	-
20G016	08-10-88	-	0.21	115	115	155	31	9.8	4.2	1.2
20G016	06-05-91	-	0.24	116	114	-	31	10	4.1	1.3
22F001	08-10-88	-	0.24	115	116	139	30	9.1	4.4	0.92
22F001	06-08-91	-	0.16	121	116	-	30	8.8	4.5	1.1

Table 7. Water properties and constituent concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1993--Continued

[-, no data; <, less than]

Well number	Date	Sulfate, dis-solved (mg/L as SO ₄)	Chloride, dis-solved (mg/L)	Fluoride, dis-solved (mg/L)	Bromide, dis-solved (mg/L)	Silica, dis-solved (mg/L SiO ₂)	NO ₂ +NO ₃ , dis-solved (mg/L as N)	Phosphorus ortho, dis-solved (mg/L as P)	Carbon, organic total (mg/L)	Carbon, organic dis-solved (mg/L)
20E016	08-08-85	9.4	-	-	-	27	-	-	1.7	-
20E016	08-04-88	11	2.8	0.2	0.01	21	<0.02	0.04	1.5	2.1
20E016	06-03-91	7.0	2.8	0.1	0.01	21	<0.02	-	-	1.3
20E017	08-05-85	2.4	-	-	-	34	-	-	3.5	-
20E017	08-06-88	0.3	3.3	0.8	0.01	25	<0.02	0.02	1.8	2.6
20E017	06-06-91	<0.1	3.4	0.3	0.01	24	<0.02	-	-	2.7
20E018	08-07-85	2.5	-	-	-	46	-	-	0.6	-
20E018	08-04-88	2.1	3.2	0.7	0.01	36	<0.02	0.03	4.1	1.4
20E018	06-04-91	1.7	3.4	0.3	0.02	33	<0.02	-	-	1.3
20E019	08-07-85	6.1	-	-	-	21	-	-	4.2	-
20E019	08-03-88	0.2	2.7	0.2	0.01	16	<0.02	0.05	3.7	2.1
20E019	06-09-91	<0.1	2.9	0.2	0.01	16	<0.02	-	-	3.4
20E021	06-06-91	<0.1	3.5	0.3	0.01	14	<0.02	-	-	3.4
20E022	06-06-91	0.4	2.9	0.1	0.01	17	<0.02	-	-	2.6
20E028	06-06-91	<0.1	2.8	0.2	0.02	21	<0.02	-	-	2.2
20E030	06-08-91	1.4	3.3	0.2	0.02	20	<0.02	-	-	1.3
20E031	06-06-91	3.2	2.9	0.6	0.01	44	<0.02	-	-	0.2
20E033	06-06-91	<0.1	5.2	0.4	0.02	38	<0.02	-	-	8.3
20F006	03-13-74	39	3.2	0.2	-	29	<0.01	-	-	-
20F006	08-10-88	29	7.0	0.5	0.01	25	<0.02	0.06	-	2.0
20F006	06-06-91	27	3.5	0.2	0.01	22	<0.02	-	2.0	2.0
20F007	03-13-74	13	3.0	0.3	-	45	<0.01	-	-	-
20F007	08-11-88	14	3.1	0.4	0.01	37	<0.02	0.02	0.3	0.3
20F007	06-06-91	12	2.9	0.3	0.02	36	<0.02	-	-	0.2
20F009	06-07-91	6.2	3.1	0.4	0.02	30	<0.02	-	-	0.7
20F023	06-06-91	6.0	3.0	0.1	0.02	23	<0.02	-	-	1.7
20F024	08-05-85	2.8	-	-	-	43	-	-	4.5	-
20F028	08-05-85	5.2	-	-	-	49	-	-	<0.1	-
20F029	08-06-85	9.4	-	-	-	37	-	-	3.6	-
20F029	06-08-91	6.1	3.1	0.3	0.02	28	<0.02	-	1.1	1.1
20F030	06-30-88	1.7	3.3	0.7	0.02	31	<0.02	0.01	1.2	-
20F030	08-03-88	1.8	3.3	0.7	0.01	32	<0.02	0.02	1.4	1.3
20F030	06-08-91	1.1	3.3	0.5	0.02	27	<0.02	-	-	1.2
20F031	06-30-88	5.2	3.0	0.4	0.02	35	<0.02	0.03	0.5	-
20F031	08-02-88	5.5	3.1	0.4	0.01	34	<0.02	0.04	0.7	0.5
20F031	06-09-91	5.0	2.8	0.3	0.02	32	<0.02	-	-	0.3
20F037	06-30-88	8.4	2.5	0.6	0.01	34	<0.02	0.02	2.2	-
20F037	08-02-88	8.2	2.5	0.6	0.01	33	<0.02	0.02	1.0	0.9
20F037	06-05-91	7.3	2.5	0.4	0.01	30	<0.02	-	-	0.9
20F038	12-05-88	1.7	2.8	0.7	0.02	28	<0.02	0.02	1.3	-
20F038	06-09-91	2.7	2.8	0.4	0.02	26	<0.02	-	-	1.0
20F043	12-07-88	16	2.8	0.3	0.02	27	<0.02	0.04	1.2	-
20F043	06-07-91	15	3.0	0.2	0.01	26	<0.02	-	-	1.1
20F044	12-07-88	0.5	4.4	0.6	0.02	9.0	2.1	1.5	0.2	-
20F044	06-10-91	0.4	4.6	0.3	0.02	10	2.4	-	-	0.2
20F045	12-07-88	8.3	2.6	0.4	0.02	31	<0.02	0.09	0.3	-
20F046	12-07-88	21	2.8	0.4	0.02	28	<0.02	0.02	1.3	-
20F046	06-06-91	19	2.9	0.2	0.01	26	<0.02	-	1.2	1.2
20F047	12-08-88	12	2.5	0.4	0.02	26	<0.02	0.04	0.8	-
20F048	12-08-88	2.1	3.0	0.4	0.01	30	<0.02	0.02	0.6	-
20F051	06-09-91	2.2	3.0	0.1	0.02	23	<0.02	-	-	1.5
20F052	06-08-91	9.2	2.2	0.1	0.01	26	<0.02	-	-	0.7
20F053	06-10-91	0.4	3.9	<0.1	0.02	7.0	0.45	-	-	0.1
20F054	05-11-93	35	3.2	0.2	<0.10	23	-	-	2.7	2.3
20F056	04-02-93	28	2.9	0.2	<0.10	30	-	-	1.8	-
20F058	05-11-93	37	3.3	0.2	<0.10	23	-	-	2.9	3.2
20F059	04-01-93	63	3.0	0.2	<0.10	28	-	-	2.0	-
20F060	04-02-93	19	3.2	0.2	<0.10	28	-	-	3.2	2.5
20F061	04-01-93	35	3.2	0.2	<0.10	23	-	-	3.4	3.4
20G016	08-10-88	8.3	2.6	0.4	0.01	34	<0.02	0.02	0.8	0.7
20G016	06-05-91	8.7	2.8	0.3	0.01	32	<0.02	-	-	0.9
22F001	08-10-88	<0.1	3.7	0.4	0.02	28	<0.02	0.02	1.5	1.2
22F001	06-08-91	<0.2	3.8	0.2	0.02	26	<0.02	-	-	1.4

Table 8. Trace metal concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1992

[~, no data; <, less than]

Well Number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Aluminum, dissolved (ug/L)	Arsenic, dissolved (ug/L)	Barium, dissolved (ug/L)	Cadmium, dissolved (ug/L)	Copper, dissolved (ug/L)	Iron, total recoverable (ug/L)
17F012	08-11-88	208	130	208	23	-	12	<1	-	20
17F012	06-08-91	208	130	208	8	-	13	-	-	-
17H017	08-11-88	230	192	230	<2	-	50	<1	-	130
17H017	06-08-91	230	192	230	22	-	45	-	-	-
18F014	08-09-88	190	160	190	<2	-	4	<1	-	340
18F014	06-08-91	190	160	190	15	-	2	-	-	-
18F017	08-10-88	165	156	165	<2	-	16	<1	-	90
18F017	06-08-91	165	156	165	8	-	11	-	-	-
18J034	08-11-88	550	-	-	<2	-	92	<1	-	40
19D042	08-08-88	190	165	190	<2	-	11	<1	-	20
19E004	03-12-74	367	168	367	20	10	-	<10	<10	-
19E004	10-17-79	367	168	367	-	2	-	<1	1	-
19E004	06-10-91	367	168	367	17	-	<1	-	-	-
19E005	03-12-74	348	168	348	10	10	-	<10	<10	-
19E005	10-17-79	348	168	348	-	2	-	<1	9	-
19E005	05-18-82	348	168	348	-	<1	-	<1	<10	-
19E005	08-30-82	348	168	348	-	1	-	1	<10	-
19E005	05-16-83	348	168	348	-	-	-	-	-	-
19E005	08-29-83	348	168	348	-	-	-	-	-	-
19E005	04-24-84	348	168	348	-	-	-	-	-	-
19E010	03-12-74	400	178	400	20	<10	-	<10	<10	-
19E010	10-17-79	400	178	400	-	2	-	<1	30	-
19E010	05-18-82	400	178	400	-	1	-	1	<10	-
19E010	08-30-82	400	178	400	-	1	-	<1	<10	-
19E010	05-17-83	400	178	400	-	-	-	-	-	-
19E010	08-30-83	400	178	400	-	-	-	-	-	-
19E010	04-24-84	400	178	400	-	-	-	-	-	-
19E010	08-28-84	400	178	400	-	-	-	-	-	-
19E010	08-06-85	400	178	400	-	-	-	-	-	-
19E010	07-01-88	400	178	400	27	-	70	<1	-	40
19E010	08-01-88	400	178	400	<2	-	68	<1	-	20
19E010	06-09-91	400	178	400	10	-	67	-	-	-
19E011	03-12-74	400	190	400	20	-	-	<10	<10	-
19E011	10-17-79	400	190	400	-	1	<1	<1	2	-
19E011	06-03-91	400	190	400	14	-	29	-	-	-
19E017	08-09-85	251	216	251	-	-	-	-	-	-
19E017	08-05-88	251	216	251	<2	-	20	<1	-	40
19E017	06-03-91	251	216	251	8	-	18	-	-	-
19E024	06-19-74	212	175	212	40	1	-	<10	<10	-
19E024	06-07-91	212	175	212	10	-	45	-	-	-
19E041	06-18-70	346	187	346	-	<10	-	-	-	30
19E041	03-12-74	346	187	346	20	<10	-	<10	<10	-
19E041	10-17-79	346	187	346	-	2	20	<1	2	-
19E041	05-18-82	346	187	346	-	2	-	1	<10	-
19E041	08-30-82	346	187	346	-	2	-	<1	<10	-
19E041	05-16-83	346	187	346	-	-	-	-	-	-
19E041	08-29-83	346	187	346	-	-	-	-	-	-
19E041	04-25-84	346	187	346	-	-	-	-	-	-
19E041	08-28-84	346	187	346	-	-	-	-	-	-
19E041	08-06-85	346	187	346	-	-	-	-	-	-
19E041	07-01-88	346	187	346	21	-	39	<1	-	30
19E041	08-01-88	346	187	346	<2	-	51	<1	-	20
19E041	06-09-91	346	187	346	8	-	46	-	-	-
19E055	08-09-85	230	189	230	-	-	-	-	-	-
19E055	06-07-91	230	189	230	5	-	27	-	-	-
19E056	06-07-91	235	175	235	6	-	14	-	-	-
19E057	06-07-91	280	190	280	4	-	46	-	-	-
19E061	08-05-88	215	165	215	<2	-	32	<1	-	20
19E061	06-03-91	215	165	215	8	-	29	-	-	-
19E063	08-08-85	220	155	220	-	-	-	-	-	-
19E067	08-08-85	250	190	250	-	-	-	-	-	-
19E067	06-07-91	250	190	250	49	-	19	-	-	-
19E068	08-07-85	225	199	225	-	-	-	-	-	-
19E068	06-07-91	225	199	225	10	-	10	-	-	-
19E069	08-07-85	290	190	290	-	-	-	-	-	-

Table 8. Trace metal concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1992--Continued

[-, no data; <, less than]

Well Number	Date	Iron, dissolved (ug/L)	Lead, dissolved (ug/L)	Lithium dissolved (ug/L)	Manganese, total recoverable (ug/L)	Manganese, dissolved (ug/L)	Mercury dissolved (ug/L)	Strontium, dissolved (ug/L)	Zinc, dissolved (ug/L)
17F012	08-11-88	3	2	3	3	3	0.07	73	16
17F012	06-08-91	<3	-	3	-	5	-	70	-
17H017	08-11-88	6	<1	7	6	5	0.08	310	10
17H017	06-08-91	31	-	4	-	7	-	300	-
18F014	08-09-88	14	2	3	5	4	0.09	33	87
18F014	06-08-91	16	-	2	-	5	-	30	-
18F017	08-10-88	20	1	5	130	130	0.10	46	<3
18F017	06-08-91	28	-	3	-	73	-	40	-
18J034	08-11-88	16	<1	12	2	2	0.18	420	10
19D042	08-08-88	3	2	3	5	4	0.11	51	28
19E004	03-12-74	<10	7	-	-	17	<0.5	-	4
19E004	10-17-79	-	-	-	-	-	-	-	10
19E004	06-10-91	7	-	1	-	10	-	70	-
19E005	03-12-74	<10	4	-	-	-	<0.5	-	<3
19E005	10-17-79	-	-	-	-	-	-	-	10
19E005	05-18-82	<3	-	-	-	17	<0.1	-	<3
19E005	08-30-82	3	-	-	-	17	<0.1	-	-
19E005	05-16-83	10	-	-	-	18	-	-	-
19E005	08-29-83	10	-	-	-	18	-	-	-
19E005	04-24-84	10	-	-	-	20	-	-	-
19E010	03-12-74	30	4	-	-	<10	<0.5	-	8
19E010	10-17-79	-	-	-	-	-	-	-	40
19E010	05-18-82	<3	-	-	-	8	0.3	-	<3
19E010	08-30-82	8	-	-	-	10	<0.1	-	-
19E010	05-17-83	4	-	-	-	8	-	-	-
19E010	08-30-83	20	-	-	-	9	-	-	-
19E010	04-24-84	30	-	-	-	10	-	-	-
19E010	08-28-84	10	-	-	-	20	-	-	-
19E010	08-06-85	70	-	-	-	-	-	-	-
19E010	07-01-88	25	<1	<1	8	12	0.10	75	4
19E010	08-01-88	11	<1	1	10	10	0.18	79	4
19E010	06-09-91	4	-	1	-	12	-	80	-
19E011	03-12-74	<10	<1	-	-	<10	<0.5	-	20
19E011	10-17-79	20	-	-	-	-	-	30	20
19E011	06-03-91	9	-	1	-	4	-	30	-
19E017	08-09-85	20	-	-	-	-	-	-	-
19E017	08-05-88	16	<1	4	14	14	0.14	60	7
19E017	06-03-91	40	-	3	-	13	-	60	-
19E024	06-19-74	50	<1	-	-	50	<0.5	80	20
19E024	06-07-91	69	-	4	-	37	-	54	-
19E041	06-18-70	30	<1	-	-	-	-	30	-
19E041	03-12-74	<10	4	-	-	17	-	-	4
19E041	10-17-79	10	-	-	-	-	-	50	3
19E041	05-18-82	9	-	-	-	9	<0.1	-	<3
19E041	08-30-82	7	-	-	-	9	0.1	-	-
19E041	05-16-83	10	-	-	-	9	-	-	-
19E041	08-29-83	10	-	-	-	9	-	-	-
19E041	04-25-84	<10	-	-	-	10	-	-	-
19E041	08-28-84	10	-	-	-	10	-	-	-
19E041	08-06-85	<10	-	-	-	-	-	-	-
19E041	07-01-88	15	<1	2	10	12	<0.03	35	4
19E041	08-01-88	6	1	4	12	10	0.15	56	11
19E041	06-09-91	4	-	3	-	10	-	60	-
19E055	08-09-85	30	-	-	-	-	-	-	-
19E055	06-07-91	16	-	3	-	9	-	50	-
19E056	06-07-91	50	-	3	-	9	-	40	-
19E057	06-07-91	<3	-	3	-	11	-	50	-
19E061	08-05-88	3	<1	7	5	5	0.04	73	14
19E061	06-03-91	3	-	4	-	4	-	70	-
19E063	08-08-85	20	-	-	-	-	-	-	-
19E067	08-08-85	<10	-	-	-	-	-	-	-
19E067	06-07-91	27	-	2	-	8	-	80	-
19E068	08-07-85	<10	-	-	-	-	-	-	-
19E068	06-07-91	57	-	3	-	5	-	30	-
19E069	08-07-85	<10	-	-	-	-	-	-	-

Table 8. Trace metal concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1992--Continued

[-, no data; <, less than]

Well Number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Aluminum, dissolved (ug/L)	Arsenic, dissolved (ug/L)	Barium, dissolved (ug/L)	Cadmium, dissolved (ug/L)	Copper, dissolved (ug/L)	Iron, total recoverable (ug/L)
19E069	06-30-88	290	190	290	3	-	28	<1	-	70
19E069	06-11-91	290	190	290	4	-	29	-	-	-
19E070	08-07-85	200	160	180	-	-	-	-	-	-
19E070	08-03-88	200	160	180	<2	-	30	<1	-	40
19E070	06-03-91	200	160	180	12	-	30	-	-	-
19E071	06-27-88	109	49	109	20	-	26	<1	-	300
19E071	08-05-88	109	49	109	<2	-	29	1	-	170
19E071	06-04-91	109	49	109	12	-	25	-	-	-
19E072	06-29-88	-	-	-	2	-	83	<1	-	50
19E073	08-05-88	290	190	290	<2	-	42	<1	-	70
19E073	06-03-91	290	190	290	8	-	41	-	-	-
19E074	06-27-88	256	-	-	7	-	76	<1	-	200
19E074	08-07-88	256	-	-	<2	-	79	<1	-	40
19E074	06-09-91	256	-	-	10	-	78	-	-	-
19E075	06-07-91	240	180	240	9	-	34	-	-	-
19E076	06-07-91	200	160	200	18	-	14	-	-	-
19E077	06-10-91	140	120	140	10	-	39	-	-	-
19E081	08-06-85	-	-	-	-	-	-	-	-	-
19E081	07-01-88	-	-	-	23	-	17	<1	-	200
19E081	08-04-88	-	-	-	<2	-	19	<1	-	60
19E081	06-03-91	-	-	-	8	-	17	-	-	-
19E087	06-10-91	44	24	44	18	-	5	-	-	-
19F011	08-08-85	112	82	112	-	-	-	-	-	-
19F011	06-05-91	112	82	112	10	-	35	-	-	-
19F018	04-18-74	230	144	230	10	<10	-	<10	<10	-
19F018	08-12-88	230	144	230	<2	-	23	<1	-	40
19F018	06-10-91	230	144	230	17	-	22	-	-	-
19F020	03-15-74	360	126	360	10	<10	-	<10	<10	-
19F020	06-10-91	360	126	360	11	-	9	-	-	-
19F031	08-08-85	180	158	180	-	-	-	-	-	-
19F031	06-30-88	180	158	180	<2	-	72	<1	-	100
19F031	06-04-91	180	158	180	8	-	69	-	-	-
19F038	03-14-74	300	180	300	10	<10	-	<10	<10	-
19F038	05-18-82	300	180	300	-	2	-	<1	<10	-
19F038	08-31-82	300	180	300	-	3	-	2	<10	-
19F038	05-17-83	300	180	300	-	-	-	-	-	-
19F038	08-30-83	300	180	300	-	-	-	-	-	-
19F038	04-24-84	300	180	300	-	-	-	-	-	-
19F038	08-29-84	300	180	300	-	-	-	-	-	-
19F039	05-04-72	450	350	450	-	-	-	-	-	<100
19F039	03-27-74	450	350	450	80	<10	-	<10	<10	-
19F039	06-05-91	450	350	400	1300	-	28	-	-	-
19F049	08-09-88	188	153	188	<2	-	10	<1	-	30
19F049	06-04-91	188	153	188	10	-	10	-	-	-
19F053	06-11-91	180	155	180	22	-	58	-	-	-
19F055	08-29-84	400	200	400	-	-	-	-	-	-
19F055	08-06-85	400	200	400	-	-	-	-	-	-
19F055	07-01-88	400	200	400	3	-	12	<1	-	<20
19F055	08-02-88	400	200	400	<2	-	15	<1	-	20
19F055	06-09-91	400	200	400	15	-	14	-	-	-
19F057	08-06-85	220	190	220	-	-	-	-	-	-
19F057	06-07-91	220	190	220	4	-	4	-	-	-
19F058	08-08-85	195	60	195	-	-	-	-	-	-
19F061	06-28-88	207	130	207	26	-	22	1	-	200
19F061	08-08-88	207	130	207	<2	-	22	1	-	30

Table 8. Trace metal concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1992--Continued

[-, no data; <, less than]

Well Number	Date	Iron, dissolved (ug/L)	Lead, dissolved (ug/L)	Lithium dissolved (ug/L)	Manganese, total recoverable (ug/L)	Manganese, dissolved (ug/L)	Mercury dissolved (ug/L)	Strontium, dissolved (ug/L)	Zinc, dissolved (ug/L)
19E069	06-30-88	25	1	2	20	22	0.05	54	4
19E069	06-11-91	17	-	3	-	19	-	40	-
19E070	08-07-85	<10	-	-	-	-	-	-	-
19E070	08-03-88	9	1	2	10	7	0.07	45	16
19E070	06-03-91	36	-	1	-	3	-	40	-
19E071	06-27-88	50	1	3	27	20	0.05	86	17
19E071	08-05-88	110	2	5	18	12	0.05	98	27
19E071	06-04-91	19	-	3	-	10	-	90	-
19E072	06-29-88	27	1	4	11	14	0.05	46	4
19E073	08-05-88	23	1	7	6	6	0.10	92	29
19E073	06-03-91	39	-	5	-	1	-	80	-
19E074	06-27-88	100	2	7	12	13	0.10	68	19
19E074	08-07-88	15	2	6	7	6	0.08	73	5
19E074	06-09-91	15	-	4	-	6	-	70	-
19E075	06-07-91	9	-	3	-	4	-	70	-
19E076	06-07-91	270	-	2	-	13	-	40	-
19E077	06-10-91	21	-	5	-	7	-	60	-
19E081	08-06-85	50	-	-	-	-	-	-	-
19E081	07-01-88	30	1	1	11	9	0.05	59	23
19E081	08-04-88	9	1	2	12	9	0.16	47	7
19E081	06-03-91	20	-	2	-	5	-	40	-
19E087	06-10-91	50	-	1	-	5	-	<4	-
19F011	08-08-85	100	-	-	-	-	-	-	-
19F011	06-05-91	18	-	3	-	18	-	60	-
19F018	04-18-74	20	4	-	-	<10	<0.5	50	5
19F018	08-12-88	7	1	4	6	5	0.04	57	32
19F018	06-10-91	46	-	3	-	3	-	54	-
19F020	03-15-74	40	7	-	-	<10	<0.5	30	8
19F020	06-10-91	51	-	1	-	11	-	40	-
19F031	08-08-85	60	-	-	-	-	-	-	-
19F031	06-30-88	53	1	4	4	7	<0.03	68	16
19F031	06-04-91	60	-	3	-	1	-	60	-
19F038	03-14-74	20	2	-	-	67	<0.5	-	4
19F038	05-18-82	40	-	-	-	100	<0.1	-	4
19F038	08-31-82	50	-	-	-	93	0.2	-	-
19F038	05-17-83	50	-	-	-	100	-	-	-
19F038	08-30-83	50	-	-	-	99	-	-	-
19F038	04-24-84	50	-	-	-	100	-	-	-
19F038	08-29-84	50	-	-	-	90	-	-	-
19F039	05-04-72	-	-	-	150	-	-	-	-
19F039	03-27-74	210	<1	-	-	17	<0.5	-	40
19F039	06-05-91	58	-	2	-	62	-	80	-
19F049	08-09-88	11	2	5	20	23	0.09	42	3
19F049	06-04-91	23	-	4	-	18	-	40	-
19F053	06-11-91	230	-	3	-	8	-	50	-
19F055	08-29-84	<10	-	-	-	10	-	-	-
19F055	08-06-85	<10	-	-	-	-	-	-	-
19F055	07-01-88	19	1	1	10	12	<0.03	58	7
19F055	08-02-88	6	<1	2	11	10	0.08	45	7
19F055	06-09-91	<5	-	2	-	10	-	40	-
19F057	08-06-85	<10	-	-	-	-	-	-	-
19F057	06-07-91	2	-	5	-	2	-	40	-
19F058	08-08-85	20	-	-	-	-	-	-	-
19F061	06-28-88	18	1	3	12	7	0.05	40	42
19F061	08-08-88	<3	2	4	8	8	0.11	52	42

Table 8. Trace metal concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1992--Continued

[-, no data; <, less than]

Well Number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Aluminum, dissolved (ug/L)	Arsenic, dissolved (ug/L)	Barium, dissolved (ug/L)	Cadmium, dissolved (ug/L)	Copper, dissolved (ug/L)	Iron, total recoverable (ug/L)
19F061	06-04-91	207	130	207	170	-	22	-	-	-
19F062	06-29-88	160	130	160	<2	-	17	1	-	200
19F062	08-08-88	160	130	160	<2	-	19	<1	-	50
19F062	06-04-91	160	130	160	5	-	19	-	-	-
19F063	06-28-88	180	140	180	11	-	8	<1	-	900
19F064	06-29-88	200	165	200	6	-	10	<1	-	<20
19F065	06-28-88	160	130	160	<2	-	4	<1	-	40
19F066	06-28-88	130	120	130	69	-	17	<1	-	500
19F066	06-05-91	130	120	130	1900	-	25	-	-	-
19F068	06-29-88	170	140	170	12	-	2	3	-	<20
19F069	06-29-88	277	172	277	2	-	16	<1	-	70
19F069	06-04-91	277	172	277	43	-	14	-	-	-
19F070	06-29-88	175	127	175	12	-	16	1	-	70
19F070	08-02-88	175	127	175	<2	-	14	<1	-	<20
19F070	06-04-91	175	127	175	7	-	13	-	-	-
19F075	07-01-88	240	185	240	26	-	6	<1	-	60
19F075	08-03-88	240	185	240	<2	-	8	<1	-	60
19F075	06-04-91	240	185	240	10	-	9	-	-	-
19F080	08-09-88	165	135	165	<2	-	10	<1	-	70
19F080	06-04-91	165	135	165	17	-	11	-	-	-
19F081	08-09-88	180	172	180	<2	-	16	<1	-	20
19F081	06-04-91	180	172	180	9	-	16	-	-	-
19F082	08-12-88	161	138	161	<2	-	9	<1	-	500
19F082	06-06-91	161	138	161	9	-	9	-	-	-
19F083	08-12-88	132	124	132	<2	-	3	<1	-	20
19F083	06-05-91	132	124	132	4	-	2	-	-	-
19F085	12-06-88	96	86	96	67	-	1	1	-	-
19F090	12-06-88	240	220	240	8	-	5	<1	-	-
19F090	06-05-91	240	220	240	6	-	7	-	-	-
19F096	12-06-88	190	160	190	4	-	19	<1	-	-
19F096	06-05-91	190	160	190	4	-	20	-	-	-
19F097	12-06-88	330	155	330	5	-	15	<1	-	-
19F097	06-05-91	330	155	330	14	-	16	-	-	-
19F100	06-05-91	450	195	450	6	-	16	-	-	-
19F101	06-05-91	450	180	450	7	-	18	-	-	-
19F104	06-07-91	200	180	200	5	-	8	-	-	-
19F106	06-07-91	-	158	-	10	-	9	-	-	-
19F108	08-06-85	300	190	300	-	-	-	-	-	-
19F108	06-11-91	300	190	300	6	-	22	-	-	-
19G015	06-10-91	100	80	100	17	-	3	-	-	-
19H026	06-11-91	450	265	450	16	-	35	-	-	-
19H027	06-11-91	550	180	550	16	-	35	-	-	-
20D030	08-04-88	150	124	150	<2	-	7	<1	-	470
20D030	06-06-91	150	124	150	12	-	5	-	-	-
20E011	05-02-74	230	165	230	10	<10	-	<10	<10	-
20E011	06-06-91	230	165	230	6	-	16	-	-	-
20E013	08-07-85	240	155	240	-	-	-	-	-	-
20E013	08-06-88	240	155	240	<2	-	22	<1	-	30
20E016	08-08-85	164	120	164	-	-	-	-	-	-
20E016	08-04-88	164	120	164	<2	-	15	<1	-	150
20E016	06-03-91	164	120	164	9	-	14	-	-	-
20E017	08-05-85	250	190	250	-	-	-	-	-	-
20E017	08-06-88	250	190	250	<2	-	58	<1	-	20
20E017	06-06-91	250	190	250	5	-	51	-	-	-
20E018	08-07-85	190	-	-	-	-	-	-	-	-
20E018	08-04-88	190	-	-	<2	-	47	<1	-	40
20E018	06-04-91	190	-	-	9	-	45	-	-	-
20E019	08-07-85	280	169	280	-	-	-	-	-	-
20E019	08-03-88	280	169	280	<2	-	15	<1	-	20
20E019	06-09-91	280	169	280	14	-	13	-	-	-
20E021	06-06-91	210	160	210	4	-	10	-	-	-
20E022	06-06-91	201	183	201	15	-	18	-	-	-
20E028	06-06-91	190	-	-	5	-	11	-	-	-
20E030	06-08-91	190	-	-	5	-	23	-	-	-
20E031	06-06-91	192	157	192	<2	-	19	-	-	-

Table 8. Trace metal concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1992--Continued

[-, no data; <, less than]

Well Number	Date	Iron, dissolved (ug/L)	Lead, dissolved (ug/L)	Lithium dissolved (ug/L)	Manganese, total recoverable (ug/L)	Manganese, dissolved (ug/L)	Mercury dissolved (ug/L)	Strontium, dissolved (ug/L)	Zinc, dissolved (ug/L)
19F061	06-04-91	75	-	4	-	16	-	50	-
19F062	06-29-88	30	1	8	18	11	<0.03	64	10
19F062	08-08-88	17	1	7	8	8	0.35	68	35
19F062	06-04-91	23	-	6	-	6	-	60	-
19F063	06-28-88	600	1	5	62	65	0.05	34	8
19F064	06-29-88	11	1	2	40	42	<0.03	47	5
19F065	06-28-88	18	1	3	3	3	<0.03	45	17
19F066	06-28-88	400	<1	1	210	210	0.05	31	17
19F066	06-05-91	1800	-	1	-	120	-	30	-
19F068	06-29-88	5	<1	4	1	1	0.30	15	56
19F069	06-29-88	35	1	2	15	17	0.10	38	23
19F069	06-04-91	50	-	1	-	12	-	40	-
19F070	06-29-88	5	1	6	3	3	0.20	47	52
19F070	08-02-88	<3	1	3	1	1	0.12	48	120
19F070	06-04-91	<3	-	3	-	3	-	40	-
19F075	07-01-88	76	4	1	11	13	<0.03	50	15
19F075	08-03-88	34	2	2	12	11	0.12	40	6
19F075	06-04-91	61	-	1	-	12	-	40	-
19F080	08-09-88	26	1	3	9	10	0.17	53	20
19F080	06-04-91	58	-	2	-	14	-	40	-
19F081	08-09-88	7	2	4	20	23	0.16	44	20
19F081	06-04-91	10	-	3	-	24	-	40	-
19F082	08-12-88	480	1	2	32	32	0.08	37	22
19F082	06-06-91	460	-	2	-	28	-	30	-
19F083	08-12-88	3	<1	6	14	11	0.06	45	89
19F083	06-05-91	<3	-	4	-	7	-	40	-
19F085	12-06-88	800	<1	1	-	12	0.10	6	14
19F090	12-06-88	300	2	4	-	13	0.10	41	580
19F090	06-05-91	14	-	4	-	10	-	40	-
19F096	12-06-88	51	<1	2	-	65	0.12	41	7
19F096	06-05-91	53	-	2	-	70	-	40	-
19F097	12-06-88	100	<1	3	-	26	0.11	50	6
19F097	06-05-91	74	-	2	-	13	-	50	-
19F100	06-05-91	7	-	1	-	5	-	40	-
19F101	06-05-91	16	-	2	-	4	-	40	-
19F104	06-07-91	23	-	3	-	15	-	40	-
19F106	06-07-91	120	-	2	-	17	-	30	-
19F108	08-06-85	30	-	-	-	-	-	-	-
19F108	06-11-91	80	-	3	-	69	-	40	-
19G015	06-10-91	3	-	<1	-	2	-	<10	-
19H026	06-11-91	<3	-	5	-	19	-	290	-
19H027	06-11-91	<3	-	5	-	18	-	300	-
20D030	08-04-88	140	1	4	130	130	<0.03	71	25
20D030	06-06-91	480	-	3	-	110	-	60	-
20E011	05-02-74	<10	9	-	-	<10	<0.5	70	<3
20E011	06-06-91	8	-	2	-	8	-	40	-
20E013	08-07-85	10	-	-	-	-	-	-	-
20E013	08-06-88	9	1	3	4	3	0.05	54	20
20E016	08-08-85	60	-	-	-	-	-	-	-
20E016	08-04-88	180	3	3	20	18	<0.03	57	12
20E016	06-03-91	100	-	2	-	14	-	50	-
20E017	08-05-85	10	-	-	-	-	-	-	-
20E017	08-06-88	4	1	5	6	4	0.22	68	10
20E017	06-06-91	<3	-	4	-	3	-	60	-
20E018	08-07-85	<10	-	-	-	-	-	-	-
20E018	08-04-88	11	1	6	29	29	<0.03	74	4
20E018	06-04-91	34	-	5	-	23	-	70	-
20E019	08-07-85	<10	-	-	-	-	-	-	-
20E019	08-03-88	5	2	2	5	5	0.11	59	10
20E019	06-09-91	<3	-	1	-	1	-	50	-
20E021	06-06-91	31	-	2	-	9	-	40	-
20E022	06-06-91	4	-	2	-	5	-	40	-
20E028	06-06-91	75	-	2	-	9	-	40	-
20E030	06-08-91	1100	-	2	-	23	-	50	-
20E031	06-06-91	250	-	4	-	18	-	30	-

Table 8. Trace metal concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1992--Continued

[-, no data; <, less than]

Well Number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Aluminum, dissolved (ug/L)	Arsenic, dissolved (ug/L)	Barium, dissolved (ug/L)	Cadmium, dissolved (ug/L)	Copper, dissolved (ug/L)	Iron, total recoverable (ug/L)
20E033	06-06-91	155	-	-	15	-	23	-	-	-
20F006	03-13-74	440	225	440	10	<10	-	<10	10	-
20F006	08-10-88	440	225	440	<2	-	25	<1	-	45
20F006	06-06-91	440	225	440	11	-	23	-	-	-
20F007	03-13-74	195	182	195	10	10	-	-	<10	-
20F007	08-11-88	195	182	195	<2	-	12	<1	-	20
20F007	06-06-91	195	182	195	4	-	11	-	-	-
20F009	06-07-91	278	223	278	5	-	54	-	-	-
20F023	06-06-91	257	200	257	5	-	19	-	-	-
20F024	08-05-85	210	172	210	-	-	-	-	-	-
20F028	08-05-85	208	177	208	-	-	-	-	-	-
20F029	08-06-85	-	-	-	-	-	-	-	-	-
20F029	06-08-91	-	-	-	4	-	13	-	-	-
20F030	06-30-88	185	177	185	20	-	18	<1	-	300
20F030	08-03-88	185	177	185	<2	-	20	<1	-	40
20F030	06-08-91	185	177	185	4	-	15	-	-	-
20F031	06-30-88	240	180	240	<2	-	14	<1	-	70
20F031	08-02-88	240	180	240	<2	-	15	<1	-	50
20F031	06-09-91	240	180	240	3	-	13	-	-	-
20F037	06-30-88	270	200	270	<2	-	15	1	-	200
20F037	08-02-88	270	200	270	<2	-	16	<1	-	40
20F037	06-05-91	270	200	270	6	-	15	-	-	-
20F038	12-05-88	280	190	280	5	-	26	<1	-	-
20F038	06-09-91	280	190	280	2	-	27	-	-	-
20F043	12-07-88	250	195	250	4	-	17	<1	-	-
20F043	06-07-91	250	195	250	2	-	17	-	-	-
20F044	12-07-88	90	80	90	29	-	3	<1	-	-
20F044	06-10-91	90	80	90	23	-	3	-	-	-
20F045	12-07-88	260	200	260	13	-	14	<1	-	-
20F046	12-07-88	250	200	250	14	-	20	<1	-	-
20F046	06-06-91	250	200	250	4	-	19	-	-	-
20F047	12-08-88	260	200	260	2	-	27	<1	-	-
20F048	12-08-88	350	200	350	4	-	30	<1	-	-
20F051	06-09-91	315	206	315	11	-	23	-	-	-
20F052	06-08-91	290	212	290	12	-	21	-	-	-
20F053	06-10-91	55	33	55	12	-	6	-	-	-
20G016	08-10-88	260	190	260	<2	-	140	<1	-	20
20G016	06-05-91	260	190	260	11	-	140	-	-	-
22F001	08-10-88	220	170	220	<2	-	46	<1	-	30
22F001	06-08-91	220	170	220	6	-	44	-	-	-

Table 8. Trace metal concentrations for wells sampled in Lowndes and adjacent counties, Georgia, August 1961 to September 1992--Continued

[-, no data; <, less than]

Well Number	Date	Iron, dissolved (ug/L)	Lead, dissolved (ug/L)	Lithium dissolved (ug/L)	Manganese, total recoverable (ug/L)	Manganese, dissolved (ug/L)	Mercury dissolved (ug/L)	Strontium, dissolved (ug/L)	Zinc, dissolved (ug/L)
20E033	06-06-91	380	-	4	-	65	-	100	-
20F006	03-13-74	<10	6	-	-	17	<0.5	-	4
20F006	08-10-88	7	<1	3	9	9	0.08	110	7
20F006	06-06-91	38	-	2	-	11	-	100	-
20F007	03-13-74	<10	5	-	-	<10	<0.5	-	20
20F007	08-11-88	<3	2	7	1	1	0.06	56	36
20F007	06-06-91	<3	-	5	-	2	-	50	-
20F009	06-07-91	65	-	5	-	2	-	60	-
20F023	06-06-91	<3	-	3	-	10	-	70	-
20F024	08-05-85	<10	-	-	-	-	-	-	-
20F028	08-05-85	<10	-	-	-	-	-	-	-
20F029	08-06-85	20	-	-	-	-	-	-	-
20F029	06-08-91	46	-	4	-	14	-	80	-
20F030	06-30-88	27	<1	3	72	69	0.05	44	15
20F030	08-03-88	18	3	5	60	65	0.10	42	40
20F030	06-08-91	34	-	3	-	54	-	40	-
20F031	06-30-88	42	<1	5	23	27	0.30	69	13
20F031	08-02-88	15	<1	6	25	27	0.10	63	16
20F031	06-09-91	25	-	4	-	22	-	60	-
20F037	06-30-88	29	1	5	11	11	<0.03	59	9
20F037	08-02-88	11	4	8	11	9	0.06	59	4
20F037	06-05-91	32	-	5	-	8	-	60	-
20F038	12-05-88	10	1	5	-	7	0.14	59	17
20F038	06-09-91	<3	-	6	-	6	-	50	-
20F043	12-07-88	21	<1	3	-	6	0.06	92	13
20F043	06-07-91	17	-	3	-	5	-	90	-
20F044	12-07-88	4	1	<1	-	3	0.04	5	16
20F044	06-10-91	<3	-	1	-	3	-	<4	-
20F045	12-07-88	200	1	5	-	20	<0.03	49	220
20F046	12-07-88	160	<1	4	-	10	0.06	84	180
20F046	06-06-91	59	-	4	-	2	-	70	-
20F047	12-08-88	20	1	3	-	8	<0.03	85	19
20F048	12-08-88	14	1	4	-	6	0.04	47	8
20F051	06-09-91	13	-	-	-	1	-	60	-
20F052	06-08-91	4	-	3	-	10	-	70	-
20F053	06-10-91	<3	-	<1	-	6	-	<10	-
20G016	08-10-88	4	2	7	7	6	0.08	79	6
20G016	06-05-91	17	-	5	-	13	-	80	-
22F001	08-10-88	9	3	4	11	12	0.08	91	3
22F001	06-08-91	25	-	3	-	7	-	90	-

Table 9. Herbicide and insecticide concentrations for wells sampled in the Valdosta area, Georgia, 1979-84

[-, no data; <, less than]

Herbicides								
Well number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Ametrine, total (ug/L)	Atrazine, total (ug/L)	Atrazine, total (ug/L)	Cyanazine, total (ug/L)
19E005	05-18-82	348	168	348	<0.10	<0.10	<0.10	<0.10
19E005	08-30-82	348	168	348	<0.10	<0.10	<0.10	<0.10
19E005	05-16-83	348	168	348	<0.10	<0.10	<0.10	<0.10
19E010	05-18-82	400	178	400	<0.10	<0.10	<0.10	<0.10
19E010	08-30-82	400	178	400	<0.10	<0.10	<0.10	<0.10
19E010	05-17-83	400	178	400	<0.10	<0.10	<0.10	<0.10
19E010	08-28-84	400	178	400	-	-	-	-
19E011	10-17-79	400	190	400	-	-	-	-
19E041	10-17-79	346	187	346	-	-	-	-
19E041	05-18-82	346	187	346	<0.10	<0.10	<0.10	<0.10
19E041	08-30-82	346	187	346	<0.10	<0.10	<0.10	<0.10
19E041	05-16-83	346	187	346	<0.10	<0.10	<0.10	<0.10
19E041	08-28-84	346	187	346	-	-	-	-
19F038	05-18-82	300	180	300	<0.10	<0.10	<0.10	<0.10
19F038	08-31-82	300	180	300	<0.10	<0.10	<0.10	<0.10
19F038	05-17-83	300	180	300	<0.10	<0.10	<0.10	<0.10
19F038	08-29-84	300	180	300	-	-	-	-
19F055	08-29-84	400	200	400	-	-	-	-
Herbicides								
Well number	Date	Cyprazine, total (ug/L)	Methomyl, total (ug/L)	Perthane, total (ug/L)	Prometryne, total (ug/L)	Prometryne, total (ug/L)	Propanazine, total (ug/L)	Propanazine, total (ug/L)
19E005	05-18-82	<0.10	<0.1	<0.10	<0.1	<0.1	<0.10	<0.1
19E005	08-30-82	<0.10	<0.1	<0.10	<0.1	<0.1	<0.10	<0.1
19E005	05-16-83	<0.10	<0.5	<0.10	<0.1	<0.1	<0.10	<0.5
19E010	05-18-82	<0.10	<0.1	<0.10	<0.1	<0.1	<0.10	<0.1
19E010	08-30-82	<0.10	<0.1	<0.10	<0.1	<0.1	<0.10	<0.1
19E010	05-17-83	<0.10	<0.5	<0.10	<0.1	<0.1	<0.10	<0.5
19E010	08-28-84	-	<0.5	-	-	-	-	<0.5
19E011	10-17-79	-	-	-	-	-	-	-
19E041	10-17-79	-	-	-	-	-	-	-
19E041	05-18-82	<0.10	<0.1	<0.10	<0.1	<0.1	<0.10	<0.1
19E041	08-30-82	<0.10	<0.1	<0.10	<0.1	<0.1	<0.10	<0.1
19E041	05-16-83	<0.10	<0.5	<0.10	<0.1	<0.1	<0.10	<0.5
19E041	08-28-84	-	<0.5	-	-	-	-	<0.5
19F038	05-18-82	<0.10	<0.1	<0.10	<0.1	<0.1	<0.10	<0.1
19F038	08-31-82	<0.10	<0.1	<0.10	<0.1	<0.1	<0.10	<0.1
19F038	05-17-83	<0.10	<0.5	<0.10	<0.1	<0.1	<0.10	<0.5
19F038	08-29-84	-	<0.5	-	-	-	-	<0.5
19F055	08-29-84	-	<0.5	-	-	-	-	<0.5

Table 9. Herbicide and insecticide concentrations for wells sampled in the Valdosta area, Georgia, 1979-84--Continued

[-, no data; <, less than]

Well number	Date	Herbicides					
		Sima-zine, total (ug/L)	Sime-tone, total (ug/L)	Sime-tryne, total (ug/L)	2,4,5-t, total (ug/L)	2,4-d, total (ug/L)	silvex, total (ug/L)
19E005	05-18-82	<0.10	<0.10	<0.1	-	-	-
19E005	08-30-82	<0.10	<0.10	<0.1	-	-	-
19E005	05-16-83	<0.10	<0.10	<0.1	-	-	-
19E010	05-18-82	<0.10	<0.10	<0.1	-	-	-
19E010	08-30-82	<0.10	<0.10	<0.1	-	-	-
19E010	05-17-83	<0.10	<0.10	<0.1	-	-	-
19E010	08-28-84	-	-	-	-	-	-
19E011	10-17-79	-	-	-	<0.10	<0.10	<0.10
19E041	10-17-79	-	-	-	<0.10	<0.10	<0.10
19E041	05-18-82	<0.10	<0.10	<0.1	-	-	-
19E041	08-30-82	<0.10	<0.10	<0.1	-	-	-
19E041	05-16-83	<0.10	<0.10	<0.1	-	-	-
19E041	08-28-84	-	-	-	-	-	-
19F038	05-18-82	<0.10	<0.10	<0.1	-	-	-
19F038	08-31-82	<0.10	<0.10	<0.1	-	-	-
19F038	05-17-83	<0.10	<0.10	<0.1	-	-	-
19F038	08-29-84	-	-	-	-	-	-
19F055	08-29-84	-	-	-	-	-	-

Table 9. Herbicide and insecticide concentrations for wells sampled in the Valdosta area, Georgia, 1979-84--Continued

[-, no data; <, less than]

Insecticides										
Well number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Aldrin, total (ug/L)	Chlor-dane, total (ug/L)	Chlor-dane, dis-solved (ug/L)	DDD, dis-solved (ug/L)	DDD, total (ug/L)	DDE, dis-solved (ug/L)
19E005	05-18-82	348	168	348	<0.01	<0.10	-	-	<0.01	-
19E005	08-30-82	348	168	348	<0.01	<0.10	-	-	<0.01	-
19E005	05-16-83	348	168	348	<0.01	<0.10	-	-	<0.01	-
19E010	05-18-82	400	178	400	<0.01	<0.10	-	-	<0.01	-
19E010	08-30-82	400	178	400	<0.01	<0.10	-	-	<0.01	-
19E010	05-17-83	400	178	400	<0.01	<0.10	-	-	<0.01	-
19E010	08-28-84	400	178	400	-	-	-	-	-	-
19E011	10-17-79	400	190	400	-	-	<0.01	<0.01	-	<0.01
19E041	10-17-79	346	187	346	-	-	<0.01	<0.01	-	<0.01
19E041	05-18-82	346	187	346	<0.01	<0.10	-	-	<0.01	-
19E041	08-30-82	346	187	346	<0.01	<0.10	-	-	<0.01	-
19E041	05-16-83	346	187	346	<0.01	<0.10	-	-	<0.01	-
19E041	08-28-84	346	187	346	-	-	-	-	-	-
19F038	05-18-82	300	180	300	<0.01	<0.10	-	-	<0.01	-
19F038	08-31-82	300	180	300	<0.01	<0.10	-	-	<0.01	-
19F038	05-17-83	300	180	300	<0.01	<0.10	-	-	<0.01	-
19F038	08-29-84	300	180	300	-	-	-	-	-	-
19F055	08-29-84	400	200	400	-	-	-	-	-	-

Insecticides									
Well number	Date	DDE, total (ug/L)	DDT, dis-solved (ug/L)	DDT, total (ug/L)	Di-eldrin dis-solved (ug/L)	Di-eldrin total (ug/L)	Endo-sulfan, total (ug/L)	Endrin, dis-solved (ug/L)	Endrin, total (ug/L)
19E005	05-18-82	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19E005	08-30-82	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19E005	05-16-83	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19E010	05-18-82	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19E010	08-30-82	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19E010	05-17-83	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19E010	08-28-84	-	-	-	-	-	-	-	-
19E011	10-17-79	-	<0.01	-	<0.01	-	-	<0.01	-
19E041	10-17-79	-	<0.01	-	<0.01	-	-	<0.01	-
19E041	05-18-82	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19E041	08-30-82	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19E041	05-16-83	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19E041	08-28-84	-	-	-	-	-	-	-	-
19F038	05-18-82	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19F038	08-31-82	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19F038	05-17-83	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01
19F038	08-29-84	-	-	-	-	-	-	-	-
19F055	08-29-84	-	-	-	-	-	-	-	-

Table 9. Herbicide and insecticide concentrations for wells sampled in the Valdosta area, Georgia, 1979-84--Continued

[-, no data; <, less than]

Insecticides									
Well number	Date	Hepta-chlor epoxide, total (ug/L)	Hepta-chlor epoxide, dis-solved (ug/L)	Hepta-chlor, dis-solved (ug/L)	Hepta-chlor, total (ug/L)	Lindane, total (ug/L)	Lindane, dis-solved (ug/L)	Meth-oxy-chlor, total (ug/L)	Mirex, dis-solved (ug/L)
19E005	05-18-82	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19E005	08-30-82	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19E005	05-16-83	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19E010	05-18-82	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19E010	08-30-82	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19E010	05-17-83	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19E010	08-28-84	-	-	-	-	-	-	-	-
19E011	10-17-79	-	<0.01	<0.01	-	-	<0.01	-	<0.01
19E041	10-17-79	-	<0.01	<0.01	-	-	<0.01	-	<0.01
19E041	05-18-82	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19E041	08-30-82	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19E041	05-16-83	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19E041	08-28-84	-	-	-	-	-	-	-	-
19F038	05-18-82	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19F038	08-31-82	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19F038	05-17-83	<0.01	-	-	<0.01	<0.01	-	<0.01	-
19F038	08-29-84	-	-	-	-	-	-	-	-
19F055	08-29-84	-	-	-	-	-	-	-	-

Insecticides									
Well number	Date	Mirex, total (ug/L)	Tox-aphene, dis-solved (ug/L)	Tox-aphene, total (ug/L)	Di-azinon, dis-solved (ug/L)	Mala-thion, dis-solved (ug/L)	Methyl para-thion, dis-solved (ug/L)	Para-thion, dis-solved (ug/L)	Sevin, total (ug/L)
19E005	05-18-82	<0.01	-	<1	-	-	-	-	<0.10
19E005	08-30-82	<0.01	-	<1	-	-	-	-	<0.10
19E005	05-16-83	<0.01	-	<1	-	-	-	-	<0.50
19E010	05-18-82	<0.01	-	<1	-	-	-	-	<0.10
19E010	08-30-82	<0.01	-	<1	-	-	-	-	<0.10
19E010	05-17-83	<0.01	-	<1	-	-	-	-	<0.50
19E010	08-28-84	-	-	-	-	-	-	-	<0.50
19E011	10-17-79	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	-
19E041	10-17-79	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	-
19E041	05-18-82	<0.01	-	<1	-	-	-	-	<0.10
19E041	08-30-82	<0.01	-	<1	-	-	-	-	<0.10
19E041	05-16-83	<0.01	-	<1	-	-	-	-	<0.50
19E041	08-28-84	-	-	-	-	-	-	-	<0.50
19F038	05-18-82	<0.01	-	<1	-	-	-	-	<0.10
19F038	08-31-82	<0.01	-	<1	-	-	-	-	<0.10
19F038	05-17-83	<0.01	-	<1	-	-	-	-	<0.50
19F038	08-29-84	-	-	-	-	-	-	-	<0.50
19F055	08-29-84	-	-	-	-	-	-	-	<0.50

Table 10. Concentration of industrial compounds for wells sampled in the Valdosta area, Georgia, 1979-84

[-, no data; <, less than]

Well number	Date	Depth of well, total (feet)	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Benzene, total (ug/L)	Bromoform, total (ug/L)	Carbon-tetra-chloride, total (ug/L)	Chlorobenzene, total (ug/L)	Chloro-di-bromo-methane, total (ug/L)	Chloro-ethane, total (ug/L)
19E005	05-18-82	348	168	348	-	-	-	-	-	-
19E005	08-30-82	348	168	348	-	-	-	-	-	-
19E005	05-16-83	348	168	348	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E005	08-29-83	348	168	348	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E005	04-24-84	348	168	348	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
19E010	05-18-82	400	178	400	-	-	-	-	-	-
19E010	08-30-82	400	178	400	-	-	-	-	-	-
19E010	05-17-83	400	178	400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E010	08-30-83	400	178	400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E010	04-24-84	400	178	400	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
19E010	08-28-84	400	178	400	<3.0	<3.0	<3.0	<3.0	<3.0	-
19E011	10-17-79	400	190	400	-	-	-	-	-	-
19E041	10-17-79	346	187	346	-	-	-	-	-	-
19E041	05-18-82	346	187	346	-	-	-	-	-	-
19E041	08-30-82	346	187	346	-	-	-	-	-	-
19E041	05-16-83	346	187	346	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E041	08-29-83	346	187	346	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E041	04-25-84	346	187	346	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
19E041	08-28-84	346	187	346	<3.0	<3.0	<3.0	<3.0	<3.0	-
19F038	05-18-82	300	180	300	-	-	-	-	-	-
19F038	08-31-82	300	180	300	-	-	-	-	-	-
19F038	05-17-83	300	180	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19F038	08-30-83	300	180	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19F038	04-24-84	300	180	300	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
19F038	08-29-84	300	180	300	<3.0	<3.0	<3.0	<3.0	<3.0	-
19F055	08-29-84	400	200	400	<3.0	<3.0	<3.0	<3.0	<3.0	-
Well number	Date	2-Chloro-ethyl-vinyl-ether, total (ug/L)	Chloroform, total (ug/L)	Di-chloro-bromo-methane, total (ug/L)	Di-chloro-di-fluoro-methane, total (ug/L)	1,1-Di-chloro-ethane, total (ug/L)	1,2-Di-chloro-ethane, total (ug/L)	1,1-Di-chloro-ethylene, total (ug/L)	1,2-Di-chloro-propane, total (ug/L)	
19E005	05-18-82	-	-	-	-	-	-	-	-	
19E005	08-30-82	-	-	-	-	-	-	-	-	
19E005	05-16-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
19E005	08-29-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
19E005	04-24-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
19E010	05-18-82	-	-	-	-	-	-	-	-	
19E010	08-30-82	-	-	-	-	-	-	-	-	
19E010	05-17-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
19E010	08-30-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
19E010	04-24-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
19E010	08-28-84	<3.0	<3.0	<3.0	-	<3.0	<3.0	<3.0	<3.0	
19E011	10-17-79	-	-	-	-	-	-	-	-	
19E041	10-17-79	-	-	-	-	-	-	-	-	
19E041	05-18-82	-	-	-	-	-	-	-	-	
19E041	08-30-82	-	-	-	-	-	-	-	-	
19E041	05-16-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
19E041	08-29-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
19E041	04-25-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
19E041	08-28-84	<3.0	<3.0	<3.0	-	<3.0	<3.0	<3.0	<3.0	
19F038	05-18-82	-	-	-	-	-	-	-	-	
19F038	08-31-82	-	-	-	-	-	-	-	-	
19F038	05-17-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
19F038	08-30-83	<1.0	8.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
19F038	04-24-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
19F038	08-29-84	<3.0	<3.0	<3.0	-	<3.0	<3.0	<3.0	<3.0	
19F055	08-29-84	<3.0	<3.0	<3.0	-	<3.0	<3.0	<3.0	<3.0	

Table 10. Concentration of industrial compounds for wells sampled in the Valdosta area, Georgia, 1979-84--Continued

[-, no data; <, less than]

Well number	Date	1,3-Di-chloro-propene, total (ug/L)	1,1,2,2-Tetra-chloro-ethane, total (ug/L)	Ethyl-benzene, total (ug/L)	Methyl-bromide, total (ug/L)	Methyl-ene-chloride, total (ug/L)	Naphthalenes, polychlor. total (ug/L)	PCB, dissolved (ug/L)	PCB, total (ug/L)
19E005	05-18-82	-	-	-	-	-	<0.10	-	<0.1
19E005	08-30-82	-	-	-	-	-	<0.10	-	<0.1
19E005	05-16-83	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	-	<0.1
19E005	08-29-83	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-
19E005	04-24-84	<3.0	<3.0	<3.0	<3.0	<3.0	-	-	-
19E010	05-18-82	-	-	-	-	-	<0.10	-	<0.1
19E010	08-30-82	-	-	-	-	-	<0.10	-	<0.1
19E010	05-17-83	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	-	<0.1
19E010	08-30-83	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-
19E010	04-24-84	<3.0	<3.0	<3.0	<3.0	<3.0	-	-	-
19E010	08-28-84	<3.0	<3.0	<3.0	-	<3.0	-	-	-
19E011	10-17-79	-	-	-	-	-	-	<0.1	-
19E041	10-17-79	-	-	-	-	-	-	<0.1	-
19E041	05-18-82	-	-	-	-	-	<0.10	-	<0.1
19E041	08-30-82	-	-	-	-	-	<0.10	-	<0.1
19E041	05-16-83	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	-	<0.1
19E041	08-29-83	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-
19E041	04-25-84	<3.0	<3.0	<3.0	<3.0	<3.0	-	-	-
19E041	08-28-84	<3.0	<3.0	<3.0	-	<3.0	-	-	-
19F038	05-18-82	-	-	-	-	-	<0.10	-	<0.1
19F038	08-31-82	-	-	-	-	-	<0.10	-	<0.1
19F038	05-17-83	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	-	<0.1
19F038	08-30-83	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-
19F038	04-24-84	<3.0	<3.0	<3.0	<3.0	<3.0	-	-	-
19F038	08-29-84	<3.0	<3.0	<3.0	-	<3.0	-	-	-
19F055	08-29-84	<3.0	<3.0	<3.0	-	<3.0	-	-	-

Well number	Date	Tetra-chloro-ethyl-ene, total (ug/L)	Toluene, total (ug/L)	1,2-Transdi-chloro-ethene, total (ug/L)	1,1,1-Tri-chloro-ethane, total (ug/L)	1,1,2-Tri-chloro-ethane, total (ug/L)	Tri-chloro-ethyl-ene, total (ug/L)	Tri-chloro-fluoro-methane, total (ug/L)	Vinyl chlo-ride, total (ug/L)
19E005	05-18-82	-	-	-	-	-	-	-	-
19E005	08-30-82	-	-	-	-	-	-	-	-
19E005	05-16-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E005	08-29-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E005	04-24-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
19E010	05-18-82	-	-	-	-	-	-	-	-
19E010	08-30-82	-	-	-	-	-	-	-	-
19E010	05-17-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E010	08-30-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E010	04-24-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
19E010	08-28-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	-	-
19E011	10-17-79	-	-	-	-	-	-	-	-
19E041	10-17-79	-	-	-	-	-	-	-	-
19E041	05-18-82	-	-	-	-	-	-	-	-
19E041	08-30-82	-	-	-	-	-	-	-	-
19E041	05-16-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E041	08-29-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19E041	04-25-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
19E041	08-28-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	-	-
19F038	05-18-82	-	-	-	-	-	-	-	-
19F038	08-31-82	-	-	-	-	-	-	-	-
19F038	05-17-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19F038	08-30-83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19F038	04-24-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
19F038	08-29-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	-	-
19F055	08-29-84	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	-	-

Table 11. Concentration of chlorofluorocarbon-11, -12, and -113 in ground water from Lowndes and adjacent counties, Georgia, June 1991 to May 1993

[-, no data]

Well number	Date	Time	Concentration in water			Well number	Date	Time	Concentration in water		
			CFC-11 (pg/kg)	CFC-12 (pg/kg)	CFC-113 (pg/kg)				CFC-11 (pg/kg)	CFC-12 (pg/kg)	CFC-113 (pg/kg)
17F012	06-08-91	1104	1.6	8.9	0.0	19E024	06-07-91	1136	13.4	0.0	0.0
		1111	0.8	7.0	0.0			1141	28.4	0.0	0.0
		1115	4.3	8.7	0.0			1145	13.4	0.0	0.0
		1121	1.8	7.2	0.0			1149	7.4	0.0	0.0
		1128	1.4	7.7	0.0			1154	7.9	0.0	0.0
17H017	06-08-91	1412	2.0	3.6	0.0	19E041	06-09-91	1113	6.4	27.8	6.4
		1416	1.8	2.9	0.0			1119	7.9	31.9	0.0
		1421	1.8	2.8	0.0			1123	6.0	24.5	0.0
		1428	2.7	1.8	0.0			1128	3.3	23.2	0.0
		1434	1.3	0.9	0.0			1133	4.9	22.2	0.0
18F014	06-08-91	0850	3.1	0.0	0.0	19E055	06-07-91	0929	17.3	34.2	4.0
		0854	1.3	0.0	5.8			0935	57.6	76.7	0.0
		0858	1.6	0.0	0.0			0942	100.0	94.5	0.0
		0904	2.6	0.0	0.0			0947	70.1	63.4	0.0
18F017	06-08-91	1555	0.4	14.4	-	19E056	06-07-91	0952	145.1	92.1	0.0
		1607	0.0	2.2	0.0			1430	0.9	9575	0.0
		1620	0.0	1.0	0.0			1439	0.0	8094	7.5
		1623	0.0	0.9	0.0			1443	49.6	8154	5.3
		1629	0.0	2.4	0.0			1449	0.0	7584	6.2
19E004	06-10-91	1455	0.9	7530	24.7	19E057	06-07-91	1455	0.9	7530	24.7
		0840	0.0	93.2	0.0			1557	6.9	12658	10.6
		0845	0.0	95.2	0.0			1600	2.4	10079	3.7
		0847	0.0	102.5	0.0			1603	4.4	10748	0.0
		0850	0.0	104.0	0.0			1606	3.2	8073	4.6
		0852	0.0	107.1	10.2	19E061	06-03-91	1610	3.0	8760	9.7
		0856	0.0	105.0	0.0			1227	46.5	6.7	-
		0900	0.0	107.0	0.0			1232	44.2	8.9	7.0
		0902	0.0	114.1	0.0			1237	53.5	8.0	0.0
		0906	0.0	116.6	0.0			1243	52.7	6.2	0.0
		0910	0.0	115.6	0.0			1252	55.1	5.3	6.2
		0917	0.0	115.5	8.7	19E067	06-07-91	1236	1.4	0.6	0.0
		0920	0.0	111.7	0.0			1241	0.0	0.0	0.0
		0925	0.0	114.8	0.0			1246	1.4	0.6	0.0
		0930	0.0	116.9	0.0			1250	0.0	0.0	0.0
		0935	0.0	115.8	0.0			1254	2.4	1.6	6.2
		0940	0.0	115.3	0.0	19E068	06-07-91	1714	15.8	20.2	8.1
		0950	0.0	113.8	0.0			1717	19.7	17.4	36.9
		1000	0.0	116.7	0.0			1721	20.6	18.1	12.0
		1010	0.0	126.5	0.0			1725	18.9	19.5	13.9
		1020	0.0	125.2	0.0			1728	16.5	15.9	11.2
		1030	0.0	115.8	0.0	19E069	06-11-91	1103	16.3	30.0	0.0
		1040	0.0	114.7	0.0			1108	3.9	6.0	0.0
		1050	0.0	124.1	0.0			1114	0.0	5.9	0.0
		1100	0.0	115.1	0.0			1119	9.7	3.8	0.0
		1110	0.0	108.8	0.0			1125	0.0	5.9	0.0
19E010	06-09-91	1120	0.0	109.5	0.0			1132	0.0	8.0	0.0
		1130	0.0	110.2	0.0	19E070	06-03-91	1612	0.0	10160	-
		1140	0.0	110.7	0.0			1618	0.0	15114	0.0
		0840	0.0	18.3	-			1622	0.0	13514	19.1
		0846	0.0	20.3	0.0			1626	0.0	10686	0.0
		0851	0.0	22.0	0.0			1629	0.0	10660	0.0
19E011	06-03-91	0901	0.0	20.6	0.0	19E071	06-04-91	0900	7.8	12.9	0.0
		0907	0.0	19.7	0.0			0905	17.0	14.8	0.0
		0911	0.0	20.2	0.0			0914	22.1	14.6	0.0
		0923	0.9	35.3	0.0			0920	6.3	14.6	0.0
		0931	0.9	29.6	0.0			0928	10.1	13.4	0.0
19E017	06-03-91	0948	0.5	24.4	0.0	19E073	06-03-91	1257	40.0	29.6	43.8
		0954	0.0	21.7	0.0			1318	44.8	40.5	10.9
		0958	0.9	20.3	0.0			1323	39.2	38.8	6.9
		1449	1.5	47.8	0.0			1335	39.9	35.1	4.9
		1456	1.7	49.2	0.0						

Table 11. Concentration of chlorofluorocarbon-11, -12, and -113 in ground water from Lowndes and adjacent counties, Georgia, June 1991 to May 1993--Continued

[-, no data]

Well number	Date	Time	Concentration in water			Well number	Date	Time	Concentration in water		
			CFC-11 (pg/kg)	CFC-12 (pg/kg)	CFC-113 (pg/kg)				CFC-11 (pg/kg)	CFC-12 (pg/kg)	CFC-113 (pg/kg)
19E074	06-09-91	0932	1.8	4.1	22.0	19F053	06-11-91	1322	38.3	3.7	6.4
		0937	2.7	2.0	0.0			1326	14.5	2.5	9.1
		0943	2.1	3.7	0.0			1330	20.9	1.4	0.0
		0953	1.9	1.6	0.0			1334	5.7	1.0	6.0
		1000	2.5	3.6	5.5			1338	32.5	1.5	0.0
19E075	06-07-91	1042	38.0	18.9	0.0	19F055	06-10-91	0840	0.9	3.6	0.0
		1545	43.3	15.4	8.5			0850	0.0	6.1	0.0
		1049	27.7	10.2	0.0			0855	0.0	0.5	0.0
		1054	45.7	10.2	0.0			0900	1.1	3.6	0.0
		1057	24.0	5.5	0.0			0905	0.9	3.7	0.0
19E076	06-07-91	1840	1.1	6.3	0.0			0910	0.0	1.6	0.0
		1844	1.6	5.7	0.0			0925	0.0	1.9	0.0
		1853	1.1	4.4	0.0			0930	0.0	1.9	0.0
		1900	1.6	4.1	0.0			0935	0.0	3.8	0.0
		1905	1.1	10.0	8.8			0940	0.0	1.8	0.0
								0950	7.9	2.4	0.0
19E077	06-10-91	1645	8.7	35361	0.0			1000	0.4	3.8	0.0
		1651	11.0	33480	0.0	19F057	06-07-91	0924	3.2	5.3	0.0
		1656	6.6	30608	0.0			0930	1.4	0.0	0.0
		1702	6.2	31370	0.0			0942	0.0	2.6	0.0
		1706	4.9	28826	0.0			0950	0.0	0.0	0.0
								0955	0.0	4.5	0.0
19E081	06-03-91	1558	0.0	22.2	2.8	19F061	06-04-91	1635	16.3	3.5	0.0
		1605	0.0	14.4	0.0			1642	18.8	13.8	6.3
		1611	0.0	20.7	0.0			1645	15.5	5.5	0.0
		1616	0.0	15.6	0.0			1650	12.7	2.0	0.0
		1622	0.0	19.1	0.0			1654	16.5	3.8	0.0
19E087	06-10-91	1712	145.1	89.8	10.7	19F062	06-04-91	1436	406.9	52670	23.0
		1718	148.9	85.7	10.8			1444	0.0	54210	10.3
		1722	146.6	88.5	6.1			1451	2.2	58533	13.6
		1728	147.5	84.9	12.6			1502	1.4	60460	14.7
		1733	148.4	87.8	17.3			1506	1.6	52805	10.6
19F011	06-05-91	0921	740.5	539.5	-	19F066	06-05-91	0923	0.0	173.2	0.0
		0925	0.0	47214	0.0			0956	0.0	171.1	0.0
		0930	3.7	45866	-			0930	0.0	173.3	-
		0930	3.7	43983	0.0			0934	0.0	158.9	0.0
		0934	0.0	49623	0.0			0938	0.0	170.5	-
		0939	1.4	48354	0.0	19F069	06-04-91	1700	0.9	31.0	0.0
19F018	06-10-91	1336	27.2	16.5	-			1705	0.0	20.4	0.0
		1340	26.5	19.0	0.0			1725	199.3	1041.1	12.1
		1343	26.3	19.1	0.0			1735	0.2	32.6	0.0
		1346	25.5	19.0	0.0	19F070	06-04-91	1208	8.6	3.8	0.0
		1349	24.8	18.7	0.0			1214	3.9	6.9	0.0
19F020	06-10-91	1515	0.0	8.0	0.0			1217	4.9	11.3	0.0
		1518	0.0	5.4	0.0			1227	3.4	9.0	0.0
		1522	0.0	6.5	0.0			1235	5.3	12.1	15.8
		1525	0.0	6.0	0.0	19F075	06-04-91	1158	0.0	63307	-
		1529	0.0	6.2	0.0			1202	0.0	68605	0.0
19F031	06-04-91	0835	4.1	5.2	0.0			1207	0.0	63570	0.0
		0840	3.3	18.6	0.0			1212	0.0	62712	0.0
		0844	4.2	4.2	0.0			1219	0.0	64706	0.0
		0851	4.6	4.0	0.0	19F080	06-04-91	1529	0.0	14.8	0.0
		0857	2.5	2.4	0.0			1533	0.0	13.6	0.0
		0847	0.0	6.2	0.0			1537	0.0	15.0	0.0
19F039	06-05-91	1140	0.0	155.9	0.0			1542	0.0	11.9	0.0
		1153	0.0	168.3	0.0			1547	0.0	15.6	0.0
		1158	0.0	156.8	0.0	19F081	06-04-91	1742	1.4	6.0	0.0
		1158	0.0	157.8	-			1747	0.0	8.2	0.0
		1203	0.0	147.6	0.0			1751	3.1	4.7	0.0
		1210	0.0	153.6	0.0			1756	0.0	3.2	0.0
19F049	06-04-91	1403	79.3	45.0	-			1801	1.4	4.9	0.0
		1407	79.0	51.5	35.7						
		1411	87.4	55.5	8.2						
		1420	68.6	44.6	5.7						
		1424	66.6	45.2	5.2						

Table 11. Concentration of chlorofluorocarbon-11, -12, and -113 in ground water from Lowndes and adjacent counties, Georgia, June 1991 to May 1993--Continued

[-, no data]

Well number	Date	Time	Concentration in water			Well number	Date	Time	Concentration in water		
			CFC-11 (pg/kg)	CFC-12 (pg/kg)	CFC-113 (pg/kg)				CFC-11 (pg/kg)	CFC-12 (pg/kg)	CFC-113 (pg/kg)
19F082	06-06-91	1910	0.0	1.8	0.0	19F108	06-11-91	0940	0.9	12.1	17.9
		1915	150.0	1055.4	10.0			0945	0.0	10.9	0.0
		1918	0.0	8.0	0.0			0956	0.9	9.1	0.0
		1922	538.7	1148.8	41.6			1002	0.9	9.6	0.0
		1940	0.0	1.2	0.0						
19F083	06-05-91	0940	7.0	12.2	0.0	19F110	04-02-93	0752	0.0	0.0	9.1
		0953	6.1	5.7	0.0			0802	0.8	3.6	6.8
		1000	6.0	6.3	0.0			0811	0.0	3.4	0.0
		1007	7.0	17.6	0.0	19G015	06-10-91	1356	263.0	58420	8.1
19F090	06-05-91	1155	1.0	1.5	0.0			1359	148.4	54770	11.8
		1159	1.7	5.1	0.0			1403	146.4	56814	6.0
		1207	21.0	32.4	0.0			1408	148.7	54364	8.2
		1212	110.4	357.1	7.8			1412	145.3	55518	9.2
		1216	1.4	1.7	0.0	19H026	06-11-91	0949	2.3	6.4	93.1
19F096	06-05-91	1352	15.2	13.7	0.0			0953	3.7	3.3	98.0
		1358	5.5	6.1	0.0			0956	3.4	4.1	35.1
		1404	3.6	16.9	0.0			1000	1.2	2.4	16.8
		1414	2.7	15.2	0.0			1003	5.0	3.1	24.2
		1420	3.2	8.4	0.0	19H027	06-11-91	1042	6.1	4.9	8.8
19F097	06-05-91	1347	0.5	1.1	-			1050	6.2	3.3	4.9
		1352	0.6	1.0	0.0			1054	7.4	3.8	0.0
		1356	0.7	1.0	-			1057	5.7	3.3	0.0
		1400	0.0	2.6	0.0			1101	5.5	4.3	0.0
		1404	2.0	3.4	0.0	19H027 (at well head)	06-11-91	1122	2.4	1.4	0.0
19F100	06-05-91	1721	0.0	0.0	0.0			1125	2.0	2.4	4.8
		1728	0.0	5.9	0.0			1128	1.7	1.4	0.0
		1735	0.5	8.3	0.0			1131	1.6	1.4	0.0
		1740	0.5	7.9	0.0			1135	0.9	1.5	0.0
						20D030	06-06-91	1042	3.2	2.8	-
	04-01-93	1223	0.0	3.6	12.5			1048	17.6	7.6	9.9
		1235	0.0	0.0	2.7			1101	7.0	5.0	0.0
		1243	0.0	0.0	0.0			1130	4.1	6.1	0.0
								1135	3.0	7.1	0.0
19F104	06-07-91	1227	36.3	123.4	2.7			1138	2.4	6.1	-
		1232	26.4	126.7	8.4	20E011	06-06-91	0915	0.0	20.0	0.0
		1237	26.2	131.1	1.9			0920	0.0	18.7	0.0
		1242	23.4	136.2	2.8			0923	0.0	20.7	-
		1247	19.5	130.9	0.0			0926	0.0	18.4	0.0
		1252	19.6	132.3	0.0			0929	0.0	21.3	18.5
		1302	13.9	132.7	5.9	20E016	06-03-91	1739	72.4	5.0	-
		1307	11.8	135.6	5.6			1750	6.2	3.7	0.0
		1312	9.5	125.7	6.0			1754	19.0	4.0	0.0
		1317	10.5	133.0	0.0			1758	35.8	6.7	0.0
		1322	12.7	138.0	0.0	20E017	06-06-91	1745	1.2	8.8	-
		1327	11.3	138.8	0.0			1755	0.0	11.2	0.0
		1332	7.2	127.4	0.0			1800	1.6	11.4	0.0
		1337	10.3	137.6	24.2			1805	0.0	10.8	0.0
		1342	6.4	127.8	0.0			1809	0.0	10.9	0.0
		1347	6.2	133.6	0.0	20E018	06-04-91	1011	0.0	0.0	0.0
		1357	4.6	128.5	0.0			1015	0.5	2.9	0.0
		1402	4.7	127.4	0.0			1019	0.0	3.7	0.0
		1407	4.5	126.7	0.0			1023	0.6	1.5	0.0
		1412	5.9	130.3	2.9			1027	0.0	4.2	19.0
		1417	3.3	133.0	0.0	20E019	06-09-91	1034	0.0	1.8	0.0
		1422	3.2	124.8	0.0			1039	0.0	6.1	0.0
		1432	3.8	131.0	0.0			1045	0.0	0.9	0.0
		1442	3.5	132.5	0.0			1050	0.0	4.0	7.5
		1452	3.3	130.3	0.0			1056	0.0	1.0	0.0
19F106	06-07-91	1502	6.2	133.4	2.0	20E021	06-06-91	1855	0.0	3.3	0.0
		1512	2.9	129.0	0.0			1859	0.0	1.7	0.0
		1522	3.1	129.6	0.0			1905	0.0	0.0	0.0
								1910	0.0	0.0	0.0
								1916	0.0	0.0	0.0
		1056	684.1	412.1	44.8						
		1106	0.0	17.1	54.3						
		1116	0.9	28.1	0.0						

Table 11. Concentration of chlorofluorocarbon-11, -12, and -113 in ground water from Lowndes and adjacent counties, Georgia, June 1991 to May 1993--Continued

[-, no data]

Well number	Date	Time	Concentration in water			Well number	Date	Time	Concentration in water		
			CFC-11 (pg/kg)	CFC-12 (pg/kg)	CFC-113 (pg/kg)				CFC-11 (pg/kg)	CFC-12 (pg/kg)	CFC-113 (pg/kg)
20E022	06-06-91	1502	0.0	5.4	169.6	20F037	06-05-91	1537	1.0	10.8	8.5
		1506	0.0	0.6	45.8			1542	0.6	4.9	0.0
		1512	0.0	0.0	0.0			1547	0.0	0.0	0.0
		1515	0.0	1.7	0.0			1624	0.3	2.0	0.0
		1519	0.0	0.0	0.0			1629	0.0	0.0	7.4
20E028	06-06-91	1210	1.0	1.6	10.3	20F038	06-09-91	1256	0.0	680.5	0.0
		1215	0.0	2.6	0.0			1304	0.0	762.6	0.0
		1218	1.0	1.6	0.0			1314	0.0	870.8	0.0
		1222	0.0	3.4	0.0			1319	2.2	865.7	0.0
		1228	2.5	59.7	0.0	20F043	06-07-91	1825	0.0	40431	45.3
		1232	0.0	3.8	0.0			1840	0.0	30233	0.0
20E030	06-08-91	1042	0.0	22.9	0.0			1844	0.0	31791	0.0
		1059	0.0	16.1	0.0			1851	0.0	34768	0.0
		1055	0.0	18.3	0.0			1855	0.0	34350	0.0
		1102	0.0	17.1	0.0	20F044	06-10-91	1217	550.8	1464.3	11.6
20E031	06-06-91	1612	1.9	5.1	0.0			1223	537.9	1444.9	4.0
		1615	0.0	4.7	0.0			1231	535.1	1426.8	15.4
		1619	2.0	4.0	0.0			1237	535.5	1421.8	0.0
		1622	1.6	2.7	0.0			1242	541.2	1440.5	0.0
		1625	1.9	2.1	0.0	20F046	06-06-91	1504	0.0	53593	22.7
20E033	06-06-91	1340	0.0	4.2	14.8			1407	0.0	2.9	0.0
		1344	0.0	3.6	0.0			1413	0.0	0.0	0.0
		1347	0.0	3.0	0.0			1424	0.0	1.7	0.0
		1352	0.0	3.3	0.0			1430	0.0	0.0	0.0
		1356	0.0	4.1	0.0			1436	0.0	3.3	16.0
20F006	06-06-91	0940	0.0	6.2	0.0	20F052	06-08-91	0707	3.2	3.1	0.0
		1009	839.3	501.8	73.3			0719	0.0	31.5	0.0
		1030	785.0	483.4	106.8			0723	0.0	86.0	0.0
20F007	06-06-91	1128	5.9	6.8	0.0	20F053	06-11-91	1255	171.7	42993	8.4
		1211	177.2	549.6	0.0			1300	166.7	41527	16.7
		1234	1.3	2.6	0.0			1308	169.0	42370	13.6
		1237	3.3	4.3	0.0			1315	170.5	41857	13.6
20F009	06-07-91	1647	0.0	0.0	0.0			1320	170.0	39886	13.4
		1654	1.7	1.8	0.0	20F054	05-11-93	1323	9.0	2.7	776.5
		1659	0.0	0.0	0.0			1333	0.0	0.0	294.2
		1704	0.0	0.0	0.0	20F055	05-11-93	1504	0.0	0.0	-
		1709	0.0	0.0	0.0			1514	0.0	0.0	0.0
20F023	06-07-91	1704	0.0	13.2	0.0	20F056	04-02-93	1113	0.0	0.3	0.0
		1738	1.0	2.8	0.0			1129	0.0	0.0	0.0
		1750	0.0	2.8	0.0	20F059	04-01-93	1413	0.0	0.0	0.0
20F029	06-08-91	1313	0.0	21.3	0.0			1429	0.0	0.0	0.0
		1318	0.0	17.4	8.6			1437	0.0	0.0	0.0
		1323	0.9	20.2	0.0	20F060	04-02-93	0941	0.0	3.4	0.0
		1328	0.0	20.0	0.0			0952	0.0	0.0	0.0
		1332	0.4	18.3	0.0	20F061	04-01-93	1603	0.0	1.8	0.0
		1423	0.9	18.8	7.1			1617	0.0	0.0	0.0
		1453	0.9	19.5	4.2			1626	0.0	0.0	0.0
		1458	0.0	17.9	0.0	20G016	06-05-91	1718	0.0	988.8	0.0
		1508	0.0	20.3	0.0			1718	0.0	984.9	-
		1518	0.9	18.1	0.0			1722	0.0	1024.4	0.0
		1528	0.0	20.3	0.0			1727	0.0	1081.5	-
20F030	06-08-91	1707	10.7	7.9	0.0			1727	0.0	1086.1	0.0
		1714	1.6	5.4	0.0			1731	0.0	1103.6	12.3
		1719	3.2	3.8	0.0			1736	0.0	1162.3	-
		1727	1.6	1.8	0.0			1736	0.0	1167.6	0.0
		1733	2.2	2.7	0.0	22F001	06-08-91	1818	3.6	5815.5	8.3
20F031	06-09-91	1206	9.7	4.4	15.0			1826	2.3	4542.4	0.0
		1211	5.1	10.9	0.0			1829	1.6	3107.8	0.0
		1215	25.3	9.7	8.4			1833	2.4	2690.9	0.0
		1221	3.6	3.6	0.0						
		1228	6.6	3.0	0.0						

Table 12. Concentration of isotopes in ground water from Lowndes and adjacent counties, Georgia, November 1980 to May 1993

[-, no data; <, less than]

Grid number	Date	Carbon 14 (percent modern)	C-13/C-12 stable isotope ratio (per mil)	H-2/H-1 stable isotope ratio (per mil)	O-18/O-16 stable isotope ratio (per mil)	S-34/S-32 stable isotope ratio (per mil)	S-34/S-32 in sulfide ratio (per mil)	Tritium total (TU)	Tritium total count error (TU)
17F012	08-11-88	26.5	-13.1	-19.5	-3.9	19.8	-	<0.1	-
17F012	06-08-91	-	-	-19.0	-4.0	-	-	<0.1	0.2
17H017	08-11-88	14.4	-12.3	-18.0	-3.7	22.0	-	<0.1	-
17H017	06-08-91	-	-	-19.0	-3.7	-	-	<0.1	0.1
18F014	08-09-88	28.4	-14.5	-20.5	-4.0	3.2	-	0.6	0.6
18F014	06-08-91	-	-	-19.5	-3.9	-	-	0.1	0.1
18F017	08-10-88	34.9	-14.5	-18.0	-3.5	15.5	-28.5	2.3	0.6
18F017	06-08-91	-	-	-17.5	-3.5	-	-	2.8	0.4
18J034	08-11-88	2.2	-9.2	-16.5	-3.6	24.6	-	0.3	0.5
19D042	08-08-88	38.8	-14.3	-18.5	-3.8	25.7	-	0.2	0.6
19E004	06-10-91	-	-	-16.5	-3.5	-	-	1.9	0.3
19E005	11-24-80	-	-14.2	-20.0	-3.9	-	-	-	-
19E010	11-24-80	-	-12.9	-19.5	-3.2	-	-	-	-
19E010	07-01-88	-	-	-17.5	-3.4	27.1	-22.0	-	-
19E010	08-01-88	42.3	-12.5	-17.0	-3.3	-	-	7.0	0.6
19E010	06-09-91	-	-	-15.5	-3.4	-	-	5.9	0.4
19E011	06-03-91	-	-	-15.5	-3.2	-	-	9.4	0.4
19E017	08-05-88	14.2	-13.9	-19.0	-3.8	37.4	-23.9	<0.1	0.5
19E017	06-03-91	-	-	-16.5	-3.7	-	-	0.1	0.1
19E024	06-07-91	-	-	-16.5	-3.5	-	-	<0.1	0.1
19E041	11-24-80	-	-14.0	-22.0	-4.2	-	-	-	-
19E041	08-01-88	30.0	-14.4	-19.5	-3.8	-	-14.1	<0.1	0.4
19E041	06-09-91	-	-	-18.5	-3.7	-	-	1.0	0.1
19E055	06-07-91	-	-	-19.0	-3.8	-	-	0.2	0.1
19E056	06-07-91	-	-	-19.0	-3.7	-	-	1.9	0.3
19E057	06-07-91	-	-	-18.0	-3.8	-	-	<0.1	0.3
19E061	08-05-88	15.0	-15.3	-18.0	-3.7	-3.2	-	<0.1	0.4
19E061	06-03-91	-	-	-18.0	-3.8	-	-	<0.1	0.1
19E067	06-07-91	-	-	-18.5	-3.6	-	-	0.1	0.1
19E068	06-07-91	-	-	-17.0	-3.7	-	-	0.4	0.1
19E069	06-11-91	-	-	-18.0	-3.7	-	-	<0.1	0.3
19E070	08-03-88	40.2	-14.6	-17.0	-3.4	34.5	4.4	5.5	0.5
19E070	06-03-91	-	-	-15.5	-3.4	-	-	6.3	0.4
19E071	06-27-88	-	-	-	-	-	-	-	-
19E071	08-05-88	45.7	-15.3	-19.0	-3.8	-10.3	-	0.9	0.6
19E071	06-^4-91	-	-	-18.0	-3.9	-	-	0.5	0.3
19E072	06-29-88	-	-	-	-	-	-	-	-
19E073	08-05-88	7.9	-14.7	-19.0	-3.8	9.1	-31.3	0.7	0.5
19E073	06-03-91	-	-	-19.0	-3.8	-	-	<0.1	0.2
19E074	06-27-88	-	-	-	-	-	-	-	-
19E074	08-07-88	16.5	-14.6	-19.0	-3.7	37.8	-20.8	0.4	0.5
19E074	06-09-91	-	-	-17.5	-3.6	-	-	0.1	0.1
19E075	06-07-91	-	-	-19.0	-3.9	-	-	<0.1	0.1
19E076	06-07-91	-	-	-20.5	-4.1	-	-	0.9	0.1
19E077	06-10-91	-	-	-15.5	-3.5	-	-	<0.1	0.3
19E081	11-24-80	-	-13.5	-20.5	-3.6	-	-	-	-
19E081	08-04-88	19.6	-14.0	-17.5	-3.5	46.4	-11.6	0.6	0.5
19E081	06-03-91	-	-	-17.5	-3.6	-	-	0.2	0.2
19E087	06-10-91	-	-	-19.0	-4.0	-	-	9.6	0.3
19F011	06-05-91	-	-	-18.5	-3.8	-	-	10	0.5
19F018	08-12-88	37.9	-15.2	-19.5	-3.9	-2.6	-28.1	3.3	0.6
19F018	06-10-91	-	-	-18.5	-3.9	-	-	3.1	0.3
19F020	06-10-91	-	-	-17.5	-3.8	-	-	1.0	0.1
19F031	06-04-91	-	-	-20.0	-3.9	-	-	0.4	0.3
19F039	06-05-91	-	-	-12.5	-2.8	-	-	6.5	0.2
19F049	08-09-88	29.7	-14.9	-18.0	-3.5	8.6	-8.2	5.3	0.5
19F049	06-04-91	-	-	-17.5	-3.6	-	-	3.9	0.4
19F049	05-18-93	-	-	-	-	-	-	4.2	0.4
19F053	06-11-91	-	-	-19.0	-3.9	-	-	0.3	0.1
19F055	07-01-88	-	-	-	-	-	-	-	-

Table 12. Concentration of isotopes in ground water from Lowndes and adjacent counties, Georgia, November 1980 to May 1993--Continued

[-, no data; <, less than]

Grid number	Date	Carbon 14 (percent modern)	C-13/ C-12 stable isotope ratio (per mil)	H-2/ H-1 stable isotope ratio (per mil)	O-18/ O-16 stable isotope ratio (per mil)	S-34/ S-32 stable isotope ratio (per mil)	S-34/ S-32 in sulfide ratio (per mil)	Tritium total count error (TU)	Tritium total count error (TU)
19F055	08-02-88	29.1	-13.5	-18.5	-3.7	37.6	-13.0	0.7	0.4
19F055	06-09-91	-	-	-18.0	-3.7	-	-	1.0	0.1
19F057	06-07-91	-	-	-17.5	-3.8	-	-	0.2	0.1
19F061	08-08-88	15.5	-13.6	-17.5	-3.5	5.6	-	0.2	0.3
19F061	06-04-91	-	-	-15.5	-3.6	-	-	0.1	0.1
19F062	08-08-88	12.1	-14.6	-18.5	-3.8	-1.1	-20.5	<0.1	0.6
19F062	06-04-91	-	-	-18.5	-3.8	-	-	0.2	0.1
19F063	08-12-88	-	-	-	-4.0	-	-	-	-
19F066	06-05-91	-	-	-13.5	-2.8	-	-	6.5	0.4
19F068	06-29-88	-	-	-	-	-	-	0.4	0.6
19F069	06-04-91	-	-	-20.5	-4.0	-	-	<0.1	0.1
19F070	08-02-88	30.3	-14.4	-21.5	-3.9	-6.4	-	<0.1	0.5
19F070	06-04-91	-	-	-20.0	-4.0	-	-	0.1	0.1
19F075	08-03-88	28.2	-9.3	-18.0	-3.5	-	12.6	0.4	0.5
19F075	06-04-91	-	-	-17.5	-3.5	-	-	0.9	0.3
19F080	08-09-88	25.2	-14.4	-20.0	-3.8	23.1	-3.1	0.6	0.5
19F080	06-04-91	-	-	-18.5	-3.7	-	-	0.8	0.1
19F081	08-09-88	23.5	-14.1	-20.0	-3.9	-15.7	-37.2	0.3	0.6
19F081	06-04-91	-	-	-18.0	-3.9	-	-	<0.1	0.1
19F082	08-12-88	36.4	-14.0	-19.5	-3.6	-	10.2	0.9	0.5
19F082	06-06-91	-	-	-18.0	-3.7	-	-	1.2	0.3
19F083	08-12-88	21.6	-15.1	-19.0	-3.8	5.8	-	<0.1	0.5
19F083	06-05-91	-	-	-18.0	-3.7	-	-	<0.1	0.1
19F085	12-06-88	-	-	-20.0	-4.0	-	-	1.4	0.3
19F090	12-06-88	-	-	-18.0	-3.8	-	-	0.2	0.3
19F090	06-05-91	-	-	-19.0	-3.8	-	-	<0.1	0.2
19F096	12-06-88	-	-	-19.0	-4.0	-	-	0.3	0.3
19F096	06-05-91	-	-	-19.5	-3.9	-	-	0.7	0.1
19F097	12-06-88	-	-	-19.0	-4.0	-	-	0.2	0.3
19F097	06-05-91	-	-	-19.5	-4.0	-	-	0.3	0.1
19F100	06-05-91	-	-	-19.5	-4.0	-	-	0.1	0.2
19F100	04-01-93	-	-	-	-	-	-	-	-
19F101	06-05-91	-	-	-19.5	-7.9	-	-	<0.1	0.3
19F104	06-07-91	-	-	-18.5	-3.9	-	-	0.1	0.1
19F106	06-07-91	-	-	-18.0	-3.7	-	-	3.6	0.2
19F106	05-18-93	-	-	-	-	-	-	2.7	0.3
19F108	06-11-91	-	-	-17.0	-3.8	-	-	0.5	0.1
19G015	06-10-91	-	-	-19.0	-4.1	-	-	19.3	0.7
19H026	06-11-91	-	-	-18.0	-3.6	22.1	-	<0.1	0.2
19H027	06-11-91	-	-	-16.5	-3.6	-	-	-	-
20D030	08-04-88	42.0	-14.4	-16.0	-3.0	69.8	-	<0.1	0.4
20D030	06-06-91	-	-	-14.0	-3.0	-	-	<0.1	0.1
20E011	06-06-91	-	-	-16.5	-3.6	-	-	0.4	0.2
20E013	08-06-88	16.0	-12.6	-17.5	-3.4	-	12.5	1.3	0.6
20E016	08-04-88	27.5	-15.0	-20.0	-3.8	44.8	-19.3	0.6	0.6
20E016	06-03-91	-	-	-18.0	-3.9	-	-	0.3	0.2
20E017	08-06-88	10.5	-13.7	-18.0	-3.5	-13.5	-14.0	<0.1	0.5
20E017	06-06-91	-	-	-16.0	-3.4	-	-	<0.1	0.1
20E018	08-04-88	13.1	-14.8	-17.5	-3.5	65.8	17.1	0.2	0.7
20E018	06-04-91	-	-	-16.0	-3.5	-	-	0.1	0.1
20E019	11-24-80	-	-12.2	-18.5	-3.4	-	-	-	-
20E019	08-03-88	21.8	-12.6	-18.0	-3.5	13.0	19.0	0.3	0.4
20E019	06-09-91	-	-	-15.5	-3.4	-	-	0.3	0.1
20E021	06-06-91	-	-	-16.5	-3.4	-	-	0.9	0.1
20E022	06-06-91	-	-	-15.0	-3.6	-	-	<0.1	0.1
20E028	06-06-91	-	-	-20.0	-3.7	-	-	<0.1	0.1
20E030	06-08-91	-	-	-15.0	-3.5	-	-	-	-
20E031	06-06-91	-	-	-17.0	-3.8	-	-	0.3	0.2
20E033	06-06-91	-	-	-16.5	-3.5	-	-	0.2	0.1
20F006	06-06-91	-	-	-17.0	-3.7	-	-	0.3	0.1

Table 12. Concentration of isotopes in ground water from Lowndes and adjacent counties, Georgia, November 1980 to May 1993--Continued

[-, no data; <, less than]

Grid number	Date	Carbon 14 (percent modern)	C-13/ C-12 stable isotope ratio (per mil)	H-2/ H-1 stable isotope ratio (per mil)	O-18/ O-16 stable isotope ratio (per mil)	S-34/ S-32 stable isotope ratio (per mil)	S-34/ -32 in sulfide ratio (per mil)	Tritium total (TU)	Tritium total count error (TU)
20F007	08-11-88	21.6	-14.4	-19.5	-4.0	25.5	-40.4	0.2	0.6
20F007	06-06-91	-	-	-18.0	-3.9	-	-	<0.1	0.1
20F009	06-07-91	-	-	-18.5	-4.0	-	-	<0.1	0.1
20F023	06-06-91	-	-	-17.5	-3.7	-	-	<0.1	0.2
20F029	06-08-91	-	-	-17.5	-3.8	-	-	<0.1	0.1
20F030	08-03-88	21.2	-16.1	-17.0	-3.6	-9.6	-	<0.1	0.4
20F030	06-08-91	-	-	-17.0	-3.4	-	-	<0.1	0.1
20F031	08-02-88	15.0	-14.2	-19.5	-4.0	14.2	-	<0.1	0.4
20F031	06-09-91	-	-	-18.0	-3.9	-	-	<0.1	0.1
20F037	08-02-88	17.2	-14.5	-19.5	-4.0	9.8	-	<0.1	0.4
20F037	06-05-91	-	-	-18.0	-3.9	-	-	0.1	0.2
20F038	12-05-88	-	-	-16.5	-3.6	-	-	<0.1	0.3
20F038	06-09-91	-	-	-16.5	-3.7	-	-	<0.1	0.1
20F043	12-07-88	-	-	-19.5	-3.7	-	-	<0.1	0.3
20F043	06-07-91	-	-	-17.5	-3.7	-	-	<0.1	0.3
20F044	12-07-88	-	-	-19.5	-3.8	-	-	14.5	0.3
20F044	06-10-91	-	-	-18.0	-3.9	-	-	8.8	0.5
20F045	12-07-88	-	-	-19.0	-3.8	-	-	0.7	0.3
20F046	12-07-88	-	-	-18.5	-3.8	-	-	<0.1	0.3
20F046	06-06-91	-	-	-17.5	-3.8	-	-	0.1	0.3
20F047	12-08-88	-	-	-21.0	-4.0	-	-	-	0.3
20F048	12-08-88	-	-	-19.5	-3.6	-	-	<0.1	0.3
20F051	06-09-91	-	-	-16.5	-3.7	-	-	0.2	0.1
20F052	06-08-91	-	-	-18.5	-4.0	-	-	0.2	0.1
20F053	06-10-91	-	-	-18.0	-3.9	-	-	14.4	0.6
20G016	08-10-88	12.1	-14.0	-18.5	-3.8	17.5	-28.6	0.8	0.6
20G016	06-05-91	-	-	-17.5	-3.8	-	-	<0.1	0.2
22F001	08-10-88	11.4	-11.8	-17.0	-3.6	-	14.1	<0.1	0.5
22F001	06-08-91	-	-	-16.5	-3.5	-	-	0.4	0.1

Table 13.--Concentration of dissolved gases and miscellaneous water-quality data for selected wells open to the Upper Floridan aquifer near Valdosta, Georgia, October 1992 to October 1993

[-, no data]

Well number	Well name	Latitude	Longitude	Date	Water level (feet)	Water temperature (deg.C)	Dissolved chloride (mg/L)	Specific conductance at 25 deg.C (uS/cm)	Dissolved gases in water						
									Argon, uncorrected (mg/L)	Argon, corrected (mg/L)	Carbon dioxide (mg/L)	Methane (mg/L)	Oxygen (mg/L)	Nitrogen, uncorrected (mg/L)	Nitrogen, corrected (mg/L)
19F049	Church of the King	305246	0831805	10-28-92	106.0	21.5	5.2	210	0.591	0.563	2.46	0.000	1.06	16.4	16.1
				11-23-92	103.8	21.5	5.2	210	0.591	0.563	2.46	0.000	0.086	16.7	16.4
				12-29-92	103.4	21.5	5.4	210	0.639	0.609	2.87	0.000	1.94	17.0	16.6
				01-27-93	98.0	21.5	5.3	205	0.614	0.585	2.85	0.000	1.20	17.2	16.8
				02-18-93	98.1	21.5	5.2	210	0.677	0.646	2.84	0.000	0.083	17.7	17.3
				03-19-93	97.2	21.5	5.4	210	0.633	0.603	2.79	0.000	2.04	16.9	16.6
				04-19-93	99.1	21.5	5.3	210	0.618	0.589	2.85	0.131	1.03	17.3	16.9
				05-18-93	111.0	21.5	5.5	210	0.614	0.585	2.94	0.000	0.808	16.9	16.5
				06-23-93	122.0	21.5	5.3	220	0.597	0.569	3.38	0.000	0.580	16.5	16.1
				07-28-93	116.9	21.5	5.3	215	0.608	0.579	2.60	0.000	0.867	16.6	16.2
				08-24-93	122.0	22.0	5.6	222	0.573	0.547	3.04	0.000	0.730	16.4	16.1
				09-29-93	120.4	21.5	5.3	215	0.608	0.579	2.81	0.048	1.57	16.7	16.3
				10-27-93	125.1	21.5	5.4	215	0.599	0.571	3.05	0.020	0.766	16.8	16.4
19F069	Cherry Creek Baptist Church	305456	0831546	10-28-92	94.8	21.0	2.7	190	0.650	0.620	2.52	0.317	0.000	18.1	17.8
				11-23-92	91.6	21.0	2.7	190	0.636	0.607	2.50	0.186	0.077	18.0	17.6
				12-29-92	91.9	21.0	2.7	190	0.655	0.624	2.51	0.286	0.000	18.8	18.4
				01-27-93	88.0	21.0	2.7	190	0.672	0.641	2.58	0.298	0.004	19.1	18.7
				02-18-93	87.8	21.0	2.7	190	0.678	0.646	2.55	0.291	0.058	19.3	18.9
				03-19-93	87.7	21.0	2.7	190	0.663	0.632	2.26	0.376	0.016	18.2	17.8
				04-19-93	88.4	21.0	2.8	190	0.660	0.629	3.00	0.334	0.000	18.7	18.4
				05-18-93	95.3	21.0	2.7	195	0.651	0.621	2.91	0.304	0.065	18.1	17.7
				06-23-93	108.8	21.5	2.7	200	0.673	0.641	2.87	0.215	0.101	18.7	18.3
				07-28-93	104.1	21.5	2.7	185	0.650	0.620	2.41	0.124	0.053	18.2	17.8
				08-24-93	107.6	21.5	2.8	202	0.642	0.612	2.58	0.259	0.049	18.1	17.7
				09-29-93	106.7	21.5	3.2	195	0.658	0.627	2.91	0.064	0.084	18.5	18.1
				10-27-93	108.6	21.5	2.6	195	0.643	0.613	2.77	0.014	0.129	18.0	17.6
19F075	Mrs. Charles Ray	305250	0831624	10-28-92	104.8	21.5	4.0	140	0.603	0.575	0.676	2.34	0.045	16.2	15.9
				11-23-92	138.5	21.5	3.5	140	0.608	0.580	0.749	2.22	0.075	16.6	16.3
				12-29-92	133.0	21.5	3.6	140	0.620	0.591	0.623	2.34	0.000	17.0	16.6
				01-27-93	133.0	21.5	3.5	140	0.640	0.610	0.746	2.32	0.016	17.1	16.8
				02-18-93	132.7	21.5	3.5	145	0.639	0.609	0.775	2.35	0.005	17.1	16.7
				03-19-93	132.0	21.5	3.5	140	0.644	0.614	0.738	2.34	0.069	16.7	16.4
				04-19-93	134.1	21.5	3.5	145	0.618	0.589	0.700	2.31	0.000	16.8	16.4
				05-18-93	145.5	21.5	3.5	145	0.611	0.583	0.543	2.28	0.064	16.2	15.9
				06-23-93	156.7	21.5	3.5	145	0.619	0.590	0.724	2.31	0.027	16.6	16.3
				07-28-93	150.9	21.5	3.5	145	0.628	0.598	0.736	2.42	0.044	16.7	16.4
				08-24-93	156.6	21.5	3.5	150	0.621	0.592	0.689	2.15	0.052	16.7	16.3
				09-29-93	155.4	21.5	3.5	145	0.610	0.581	0.956	2.25	0.072	16.5	16.1
				10-27-93	158.8	21.5	3.5	140	0.632	0.602	0.829	2.25	0.064	16.7	16.4
19F082	Grady Goodwin	305347	0831816	10-28-92	-	20.0	4.5	225	0.591	0.564	8.09	1.63	0.017	16.8	16.5
				11-23-92	70.1	20.5	4.5	225	0.606	0.578	9.82	1.53	0.000	17.6	17.2
				12-29-92	68.6	20.0	4.5	220	0.605	0.577	8.20	1.52	0.000	17.1	16.8
				01-27-93	64.2	20.0	4.5	220	0.645	0.615	9.88	1.66	0.020	18.0	17.6
				02-18-93	64.2	20.0	4.6	220	0.625	0.596	9.99	1.56	0.000	17.9	17.5
				03-19-93	63.6	20.0	4.6	220	0.622	0.593	9.83	1.69	0.023	17.2	16.9
				04-19-93	65.7	20.0	4.6	220	0.629	0.600	7.97	1.59	0.042	17.2	16.9
				05-18-93	76.7	20.5	4.6	230	0.638	0.608	8.45	1.64	0.047	17.3	16.9
				06-23-93	88.6	20.5	4.7	240	0.595	0.567	7.56	1.58	0.049	16.9	16.6
				07-28-93	83.4	20.0	4.6	240	0.638	0.608	8.45	1.51	0.047	17.3	16.9
				08-24-93	88.4	20.0	4.7	245	0.644	0.614	8.55	1.37	0.060	17.7	17.3
				09-29-93	86.7	20.5	4.7	245	0.622	0.593	8.37	1.36	0.049	17.6	17.2
				10-27-93	90.6	20.5	4.7	240	0.619	0.590	8.60	1.29	0.101	17.4	17.1
19F101	Valdosta Deep Observation Well	305451	0831505	10-28-92	123.4	21.5	2.8	210	0.671	0.640	2.23	0.160	0.026	20.0	19.6
				11-23-92	121.0	21.5	2.9	210	0.694	0.662	2.28	0.043	0.086	20.9	20.5
19F106	Mrs. McConnell, Jr.	305426	0831807	10-28-92	74.6	20.5	4.8	190	0.640	0.610	2.65	0.628	0.000	18.1	17.7
				11-23-92	72.0	20.5	4.5	190	0.622	0.593	2.60	0.608	0.042	17.6	17.2
				12-29-92	70.5	20.5	4.7	190	0.636	0.607	2.23	0.642	0.000	18.0	17.6
				01-27-93	64.8	20.0	5.7	110	0.632	0.603	5.51	0.055	0.000	17.3	17.0
				02-18-93	64.8	20.0	6.3	130	0.658	0.626	6.21	0.053	0.000	18.1	17.7
				03-19-93	64.4	20.0	6.3	110	0.670	0.639	5.66	0.030	0.035	17.9	17.5
				04-19-93	66.8	20.0	5.6	140	0.623	0.594	4.84	0.157	0.020	17.5	17.1
				05-18-93	77.6	20.5	4.4	185	0.647	0.617	2.52	0.450	0.051	18.2	17.8
				06-23-93	90.5	20.5	4.8	205	0.616	0.587	2.63	0.415	0.095	17.9	17.6
				07-28-93	85.6	20.5	4.8	195	0.646	0.616	2.78	0.494	0.057	18.4	18.0
				08-24-93	90.5	20.5	4.1	205	0.649	0.619	2.84	0.440	0.092	18.3	17.9
				09-29-93	89.0	20.5	4.7	195	0.629	0.600	2.73	0.554	0.054	18.1	17.7
				10-27-93	91.9	20.5	4.4	195	0.644	0.614	3.10	0.272	0.076	18.7	18.3

Table 13.--Concentration of dissolved gases and miscellaneous water-quality data for selected wells open to the Upper Floridan aquifer near Valdosta, Georgia, October 1992 to October 1993--Continued

[-, no data]

Well number	Well name	Lat- itude	Long- itude	Date	Water level (feet)	Water temp- era- ture (deg.C)	Dis- solved chlo- ride (mg/L)	Spec- ific cond- uct- ance at 25 deg.C (uS/ cm)	Dissolved gases in water						
									Argon, un- corr- ected (mg/L)	Argon, corr- ected (mg/L)	Car- bon di- oxide (mg/L)	Meth- ane (mg/L)	Oxy- gen (mg/L)	Nit- rog- en, un- corr- ected (mg/L)	Nit- rog- en, corr- ected (mg/L)
19F110	Valdosta Deep Prod- uction Well 3	305438	0831506	08-24-93	-	21.5	2.9	235	0.632	0.603	3.03	0.127	0.063	18.3	17.9
20F043	William Prince	305451	0831227	11-23-92	137.5	22.0	3.1	230	0.649	0.619	1.97	0.029	0.085	18.5	18.1
				12-29-92	137.8	21.5	3.0	230	0.641	0.611	3.68	0.032	0.000	18.6	18.2
				01-27-93	135.0	22.0	3.1	230	0.669	0.638	2.08	0.025	0.064	18.6	18.2
				02-18-93	134.7	22.0	3.1	235	0.667	0.636	2.22	0.027	0.008	19.0	18.6
				03-19-93	134.4	22.0	3.1	235	0.674	0.643	2.14	0.032	0.033	18.9	18.5
				04-19-93	134.7	22.0	3.1	235	0.651	0.620	2.11	0.032	0.015	18.9	18.5
				05-18-93	144.0	22.5	3.1	240	0.649	0.619	2.32	0.025	0.065	18.7	18.3
				06-23-93	156.3	22.0	3.1	240	0.643	0.613	2.07	0.028	0.040	18.2	17.9
				07-28-93	152.0	22.0	3.1	240	0.642	0.612	2.32	0.029	0.040	18.3	17.9
				08-24-93	156.1	22.0	3.1	245	0.653	0.622	2.16	0.035	0.028	18.3	17.9
				09-29-93	156.0	22.0	3.1	240	0.634	0.604	2.19	0.029	0.053	18.3	18.0
				10-27-93	153.9	22.0	3.1	235	-	-	-	-	-	-	-
20F059	Valdosta Deep Prod- uction Well 2B	305450	0831440	03-19-93	-	21.5	3.0	315	0.662	0.631	3.03	0.057	0.000	18.8	18.4
				04-19-93	-	22.5	3.2	300	0.634	0.604	2.58	0.066	0.028	17.8	17.4
				05-18-93	-	22.0	3.1	260	0.645	0.615	2.66	0.206	0.062	18.2	17.8
				06-23-93	-	22.0	3.1	355	0.620	0.591	2.70	0.135	0.000	17.6	17.3
				10-27-93	-	22.0	3.0	345	0.630	0.600	2.26	0.077	0.164	17.7	17.3
20F060	Valdosta Deep Prod- uction Well 4	305428	0831452	01-27-93	-	21.5	3.1	245	0.642	0.612	2.58	0.178	0.075	17.9	17.5
				02-18-93	-	21.5	3.2	230	0.637	0.607	2.70	0.413	0.000	17.8	17.4
				07-28-93	-	22.0	3.1	315	0.660	0.629	2.36	0.282	0.022	17.7	17.4
				09-29-93	-	22.0	2.9	265	0.606	0.578	2.38	0.297	0.055	17.5	17.1