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SECOND QUARTER 1993

MIXED WASTE MANAGEMENT FACILITY (MWMF) GROUNDWATER MONITORING REPORT (U)

PUBLICATION DATE: SEPTEMBER 1993

Authorized Derivative Classifier:

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Prepared for the U.S. Department of Energy under Contract No. DE-AC09-89SR18035

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Abstract

During second quarter 1993, nine constituents exceeded final Primary Drinking Water Standards in groundwater samples from downgradient monitoring wells at the Mixed Waste Management Facility, the Old Burial Ground, the E-Area Vaults, and the proposed Hazardous Waste/Mixed Waste Disposal Vaults.

As in previous quarters, tritium and trichloroethylene were the most widespread constituents. Chloroethene (vinyl chloride), dichloromethane (methylene chloride), 1,1-dichloroethylene, gross alpha, lead, nonvolatile beta, or tetrachloroethylene also exceeded standards in one or more wells.

The elevated constituents were found primarily in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) wells. However, a few Aquifer Unit IIA (Congaree) wells also contained elevated constituent levels.

The groundwater flow directions and rates in the three hydrostratigraphic units were similar to those of previous quarters.

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Executive Summary

Currently, 121 wells monitor groundwater quality in the uppermost aquifer beneath the Mixed Waste Management Facility (MWMF) at the Savannah River Site as required by the South Carolina Hazardous Waste Management Regulations. Samples from the wells are analyzed for certain heavy metals, indicator parameters, radionuclides, volatile organic compounds, and other constituents.

During second quarter 1993, chloroethene (vinyl chloride), 1,1-dichloroethylene, dichloromethane (methylene chloride), gross alpha, lead, nonvolatile beta, tetrachloroethylene, trichloroethylene, or tritium exceeded final Primary Drinking Water Standards (PDWS) in approximately half of the downgradient wells at the MWMF. Consistent with historical trends, elevated constituent levels were found primarily in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean). Elevated levels of constituents also occurred in a few Aquifer Unit IIA (Congaree) wells.

As in previous quarters, tritium and trichloroethylene were the most widespread constituents during second quarter 1993. Fifty-seven (47%) of the 121 monitoring wells contained elevated tritium activities. Trichloroethylene concentrations exceeded the final PDWS in 22 (18%) of the wells. Chloroethene (vinyl chloride), 1,1-dichloroethylene, gross alpha, lead, nonvolatile beta, and tetrachloroethylene, elevated in one or more wells during second quarter 1993, also occurred in elevated levels during first quarter 1993 and sporadically during 1992. Dichloromethane (methylene chloride), a common laboratory contaminant reported above PDWS in 7 wells during second quarter 1993, was detected in several well samples during first quarter 1993 at levels that exceeded half the final PDWS.

Groundwater flow directions and rates in Aquifer Zone IIB₂ (Water Table), Aquifer Zone IIB₁ (Barnwell/McBean), and Aquifer Unit IIA (Congaree) were similar to those of previous quarters.

Introduction

Description of Facilities

The Mixed Waste Management Facility (MWMF) is part of the Burial Ground Complex, which also includes the Old Burial Ground, the E-Area Vaults, and the proposed Hazardous Waste/Mixed Waste Disposal Vaults (HWMWDV). The Burial Ground Complex is located within the General Separations Area at the Savannah River Site (SRS) (Figures 1 and 2, Appendix C). The following description outlines important events in the history of the MWMF:

- In 1972, the MWMF began receiving various radioactive and nonradioactive wastes (Heffner and Exploration Resources, 1991).
- A closure plan for the MWMF was filed November 23, 1985, with the South Carolina Department of Health and Environmental Control (SCDHEC) (Jaegge et al., 1987). The closure plan included placing a low permeability cap and final vegetative cover over the facility.
- The MWMF became inactive in 1986 (WSRC, 1990).
- A consent decree between the U.S. Department of Energy and the Natural Resources Defense Council et al. (Civil Action 1:85-2583-6, U.S. District Court, District of South Carolina, Aiken Division), signed May 26, 1988, and effective June 1, 1988, identified the MWMF as subject to the requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA).
- SCDHEC approved an interim status closure plan for the MWMF in December 1990 and accepted the closure certification in April 1991 in accordance with South Carolina Hazardous Waste Management Regulations (SCHWMR), Subpart G (SCDHEC, 1990).
- A RCRA Part B Post-Closure Care Permit Renewal Application was submitted to SCDHEC in November 1992 (WSRC, 1992b). This permit application includes the 58-acre MWMF and the 13-acre Solvent Rag Portions of the Low-Level Radioactive Waste Disposal Facility (LLRWDF) as agreed upon by SRS and SCDHEC in settlement agreements 87-52-SW (May 10, 1991) and 91-51-SW (August 26, 1991).
- A final draft of the Field Investigation Plan (FIP) for the Burial Ground Complex has been submitted to SCDHEC for review. The FIP will address data uncertainties that were identified during the preparation of the MWMF RCRA Part B Post-Closure Care Permit.

Currently, the Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) samples the 121 wells monitoring the groundwater beneath the MWMF each quarter as part of the SRS Groundwater Monitoring Program. The Environmental Restoration Department provides a quarterly report to SCDHEC describing the monitoring results to meet the requirements of SCHWMR (SCDHEC, 1990). Tritium and trichloroethylene are the primary constituents detected in the groundwater. However, elevated levels of other radionuclides, volatile organic compounds, and metals also are found in the groundwater as a result of the operation of this facility.

Hydrostratigraphic Units

Historically, groundwater quality assessment reports for the MWMF have used the lithostratigraphic nomenclature *Water Table*, *Barnwell*, *McBean*, and *Congaree* to identify hydrologic units. However, an interim alphanumeric system developed by Aadland and Bledsoe (1990) (Figure 3, Appendix C) defines the aquifer and aquitard units at SRS using hydrostratigraphic designations. Figure 4 (Appendix C) shows a correlation of these designations. This report uses both nomenclatures. The November 1992 MWMF RCRA Part B Post-Closure Care Permit Renewal Application includes an in-depth explanation of this nomenclature and a detailed description of the geologic and hydrogeologic systems at the Burial Ground Complex (WSRC, 1992b).

The MWMF well network monitors three distinct hydrostratigraphic units in the uppermost aquifer beneath the facility: Aquifer Zone IIB₂ (Water Table), which is underlain by Confining Zone IIB₁-IIB₂ (Tan Clay); the semi-confined Aquifer Zone IIB₁ (Barnwell/McBean); and the semi-confined Aquifer Unit IIA (Congaree), which is separated from the overlying Aquifer Zone IIB₁ by Confining Unit IIA-IIB (Green Clay). The boundary between the uppermost aquifer and the principal confining unit is the uppermost confining bed of Confining System I-II (Ellenton Formation), which lies approximately 300 ft below the surface of the Burial Ground Complex.

Discussion

Groundwater Monitoring Data

The EPD/EMS sampling procedure (WSRC, 1992a) requires evacuation of a minimum of two well volumes and stabilization of pH, specific conductance, and turbidity prior to sample collection. Stability is established when a minimum of three successive measurements, taken within a given time period, are within a specified tolerance range. If a well pumps dry before two well volumes are purged or before stabilization is achieved, it must be revisited within 24 hours for the data to be considered from a single sampling event. On the second visit within 24 hours, samples are taken without purging or stability measurements; thus, these samples may not be representative of groundwater quality.

During second quarter 1993, groundwater samples from the MWMF were analyzed for certain indicator parameters, heavy metals, radionuclides, and other constituents. This report describes the results that equaled or exceeded the Safe Drinking Water Act final Primary Drinking Water Standards (PDWS) or drinking water screening levels, as established by the U.S. Environmental Protection Agency (EPA) (Appendix A); the South Carolina final PDWS for lead (Appendix A); or SRS flagging criteria based on PDWS, Secondary Drinking Water Standards, or method detection limits (Appendix B). For simplicity, results that equaled or exceeded standards are described as *exceeding* or *above* standards or as *elevated*.

The final PDWS for individual analytes provided in Appendix A may not always match the SRS flagging criteria provided in Appendix B. The final PDWS are used as guidelines in this compliance report to meet regulatory requirements; the flagging criteria are used by EPD/EMS to identify relative levels of constituents in the groundwater and as guides for scheduling groundwater sampling.

Beginning first quarter 1993, aluminum became part of comprehensive analyses, and dichloromethane was evaluated for the first time against a final PDWS promulgated by EPA in July 1992 (enforceable beginning January 17, 1994). The status of radium isotopes was re-examined, and radium-228 now is flagged according to its proposed drinking water standard (DWS) while both radium-226 and total alpha-emitting radium (radium-223, -224, and -226 analyzed together) are flagged according to the proposed DWS for radium-226. The final PDWS for total radium (as the sum of radium-226 and -228 activities) is not used for flagging.

Integrity of the Monitoring Well Network

The current groundwater monitoring well network at the MWMF (Figure 2, Appendix C) is composed of the following:

- 51 Aquifer Zone IIB₂ (Water Table) wells (Figure 5, Appendix C):

BGO 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10DR, 11D, 12D, 14DR, 15D, 16D, 17DR, 18D, 19D, 20D, 21D, 22DR, 23D, 24D, 26D, 27D, 28D, 29D, 30D, 31D, 32D, 33D, 34D, 35D, 36D, 37D, 38D, 39D, 40D, 44D, 45D, 46D, 47D, 48D, 49D, 50D; BGX 1D, 9D, 10D, 11D, 12D; HSB 85C

- 46 Aquifer Zone IIB₁ (Barnwell/McBean) wells (Figure 6, Appendix C):

BGO 5C, 6B, 6C, 8C, 10B, 10C, 12CR, 13DR, 14CR, 16B, 27C, 29C, 30C, 31C, 33C, 35C, 37C, 42C, 43CR, 43D, 44B, 44C, 45B, 45C, 46B, 46C, 47C, 48C, 49C, 50C; BGX 1C, 2B, 2D, 3D, 4C, 4D, 5D, 6D, 7D, 8DR, 12C; HMD 1D, 2D, 3D, 4D; HSB 85B

- 24 Aquifer Unit IIA (Congaree) wells (Figure 7, Appendix C):

BGO 6A, 8AR, 9AA, 10AA, 10AR, 12AR, 14AR, 16AR, 18A, 25A, 26A, 29A, 41A, 43A, 43AA, 44A, 44AA, 45A, 47A, 49A, 50A; BGX 1A, 4A; HSB 85A

SRS has a program in place to rehabilitate and replace wells that do not produce representative samples from the units being monitored. A complete record of well installations, replacements, and abandonments at the MWMF is found in the EPD/EMS well inventory (EPD/EMS, 1993). Recent well events at the Burial Ground Complex are provided in the following table.

Wells Installed or Abandoned Since First Quarter 1992

Well	Event
BGO 6B	installed 3/18/92
BGO 8A	abandoned 2/25/92
BGO 12C	abandoned 2/25/92
BGO 16AR	installed 7/22/92
BGO 16B	installed 2/20/92
BGO 17DR	installed 4/30/92

Note: The R in a well name indicates a replacement well. Wells BGO 6B and 17DR were sampled for the first time during 1992; wells BGO 16AR and 16B were sampled the first time during first quarter 1993.

The designated background wells for the MWMF are water table wells BGO 1D and 2D and HSB 85C; HSB 85A monitoring the Congaree unit; and HSB 85B monitoring the Barnwell/McBean zone.

Table 3 (Appendix D) lists the number of well volumes purged from each of the BGO, BGX, and HMD series wells and the HSB 85 well cluster during second quarter 1993. During second quarter 1993, incomplete or unsuccessful sampling events occurred as follows:

- Wells that went dry during purging:

BGO 1D, 2D, 3D, 5C, 5D, 6B, 6D, 9AA, 10B, 10C, 10DR, 12CR, 12D, 13DR, 14CR, 16B, 16D, 17DR, 20D, 21D, 22DR, 25A, 26D, 27D, 28D, 29A, 29C, 29D, 30C, 30D, 31C, 31D, 32D, 33D, 34D, 35D, 36D, 37D, 38D, 39D, 40D, 41A, 42C, 43A, 43CR, 44B, 44C, 45B, 45C, 46C, 49D, 50A, 50C; BGX 1C, 1D, 2B, 2D, 10D, 11D, 12D; HMD 1D, 4D; HSB 85B

- Wells that could not be sampled because they were inaccessible to the samplers:

BGO 4D, 19D, 24D; BGX 7D

The problems at these wells are being evaluated in an effort to resolve them for third quarter 1993 sampling.

- Wells that could not be sampled because they are in the Purge Water Containment Program and the problem of containing and disposing of the purge water has not been resolved:

BGO 26A, 37C; BGX 1A

Analytical Results Exceeding Standards

Results for analytes that exceeded the final PDWS during second quarter 1993 are provided in Table 1 (Appendix D) and summarized below. The maximum levels for the primary constituents are indicated in parentheses following the wells in which they were detected.

Aquifer Zone IIB₂ (Water Table): 34 wells contained elevated constituents.

- Tritium was elevated in 30 wells: BGO 3D, 6D, 7D, 9D, 10DR, 11D, 15D, 16D, 21D, 22DR, 23D, 27D, 28D (maximum activity at $9.9\text{E}+04$ pCi/mL), 30D, 31D, 32D, 34D, 35D, 36D, 37D, 38D, 39D, 44D, 45D, 46D, 47D, 48D, 49D, and 50D; and BGX 1D.
- Trichloroethylene was elevated in 12 wells: BGO 6D, 7D, 12D, 14DR, 15D, 16D, 28D (maximum concentration at $339\text{ }\mu\text{g/L}$), 30D, 46D, 47D, 48D, and 50D.
- Tetrachloroethylene was elevated in 3 wells: BGO 15D, 46D, and 48D.

- Dichloromethane (methylene chloride) was elevated in 4 wells: BGO 7D, 12D, 28D, and 48D.
- Chloroethene (vinyl chloride) was elevated in 2 wells: BGO 28D and 46D.
- Gross alpha was elevated in 2 wells: BGO 28D and 30D.
- Lead was elevated in 2 wells: BGO 40D and BGX 10D.
- 1,1-Dichloroethylene was elevated in well BGO 30D.
- Nonvolatile beta was elevated in well BGO 30D.

Aquifer Zone IIB₁ (Barnwell/McBean): 29 wells contained elevated constituents.

- Tritium was elevated in 27 wells: BGO 5C, 6B, 6C, 10B, 10C, 13DR, 14CR, 16B, 27C, 29C, 30C, 31C, 33C (maximum activity at $7.2\text{E}+03$ pCi/mL), 44B, 44C, 45C, 46B, 46C, 47C, 48C, 49C, and 50C; and BGX 1C, 2D, 3D, 5D, and 8DR.
- Trichloroethylene was elevated in 9 wells: BGO 12CR, 14CR, 27C, 30C, 33C, 42C (maximum concentration at $76\text{ }\mu\text{g/L}$), 46C, and 50C; and BGX 2D.
- Dichloromethane (methylene chloride) was elevated in 3 wells: BGO 31C and 33C; and BGX 12C.
- Tetrachloroethylene was elevated in well BGO 33C.

Aquifer Unit IIA (Congaree): 2 wells contained elevated constituents.

- Nonvolatile beta was elevated in well BGO 9AA.
- Trichloroethylene was elevated in well BGO 12AR.

Some of the values for earlier quarters presented in Table 1 may differ from the values for those same quarters presented in previous reports because of reanalyses performed by the laboratories after the quarterly reports went to press.

Results for analytes that exceeded other SRS flagging criteria during second quarter 1993 are summarized in Table 2 (Appendix D).

Table 3 (Appendix D) shows the results for all of the constituents and identifies the results that received modifiers (which help define laboratory accuracy and precision) or that exceeded standards or the EPA-approved holding time during second quarter 1993. Appendix E provides an assessment of the quality and useability of the data.

Isoconcentration maps of tritium, trichloroethylene, benzene, pH, and specific conductance in Aquifer Zone IIB₂ (Water Table), Aquifer Zone IIB₁ (Barnwell/McBean), and Aquifer Unit IIA

(Congaree) wells during second quarter 1993 appear in Figures 8 through 22 (Appendix C). All figures in this report are in SRS grid coordinates.

Trichloroethylene and Tritium Time-Trend Data

Time series plots from first quarter 1990 through second quarter 1993 for wells containing trichloroethylene and tritium are presented in Appendix F.

Trichloroethylene concentrations have exhibited the following trends since first quarter 1992:

- Trichloroethylene concentrations in wells BGO 6A, 6C, 8AR, 8C, 10AR, 10C, 18A, 18D, 23D, 26D, 27D, 29D, 31D, 33D, 35C, 35D, 37D, 41A, 43A, 43AA, 43D, 47A, and 50A; BGX 2B, 4A, 4D, 5D, 12C; and HMD 3D have been consistently below or near detection limits.
- Trichloroethylene concentrations in wells BGO 8D, 11D, 14AR, 22D, 29A, 29C, 31C, 40D, 46B, 47C, and 48C; and BGX 3D, 4C, and 8DR have been consistently near or below the final PDWS.
- Wells BGO 6D, 7D, 12CR, 12D, 14CR, 14DR, 15D, 27C, 28D, 29A, 30C, 30D, 33C, 42C, 46C, 46D, 47D, 48D, 50D, and BGX 2D have exhibited concentrations of trichloroethylene that consistently exceeded the final PDWS.
- Well BGO 28D, screened in Aquifer Zone IIB₂ (Water Table), has consistently exhibited the highest trichloroethylene concentrations, ranging from approximately 100 µg/L to 340 µg/L.
- Other wells have exhibited erratic activities, ranging from relatively high above the final PDWS to below the final PDWS (e.g., wells BGO 13DR and 50C). Data are insufficient to determine trends for yet other wells. However, trichloroethylene concentrations in wells BGO 10AA, 10B, 10DR, 43CR, 44B, and 44D have not exceeded the final PDWS since sampling began several quarters ago.

Tritium activities have exhibited the following trends since first quarter 1992:

- Tritium activities in wells BGO 6A, 8AR, 8C, 10AR, 12AR, 12CR, 18A, 26A, 43AA, 44A, 44AA, 47A, 49A, and 50A; BGX 4A and 12C; and HSB 85C have been consistently near or below detection limits.
- Tritium activities have not exceeded the final PDWS in upgradient wells BGO 1D, HSB 85B, and HSB 85C.
- Tritium activities in wells BGO 2D, 5C, 8D, 9D, 14AR, 16A, 18D, 20D, 22D, 24D, 26D, 29A, 29D, 35C, 40D, 42C, 43A, 43CR, 43D, 45A, and 45B; BGX 2B, 4C, 4D, 6D, 9D, 10D, and 12D; and HMD 1D, 2D, 3D, and 4D have been consistently near or below the final PDWS.

- Wells BGO 3D, 6C, 6D, 7D, 11D, 13DR, 14CR, 15D, 16D, 21D, 23D, 27D, 28D, 29C, 30C, 30D, 31C, 31D, 32D, 33C, 34D, 35D, 36D, 37D, 38D, 39D, 44B, 44C, 44D, 45C, 45D, 46C, 46D, 47C, 47D, 48C, 48D, 49D, 50C, and 50D; and BGX 1C, 1D, 2D, 3D, and 8DR have exhibited tritium levels that consistently exceeded the final PDWS.
- Well BGO 28D, located in Aquifer Zone IIB₂ (Water Table) at the west edge of the Old Burial Ground, has consistently exhibited the highest tritium activities, exceeding 1.0E+05 pCi/mL during most quarters.
- Some wells have exhibited erratic activities, ranging from relatively high above the final PDWS to below the final PDWS (e.g., wells BGO 10C and BGX 1A). Data are still insufficient to determine trends for other wells (e.g., wells BGO 9AA, 41A, and 50B).

Tritium activities in wells BGO 12D, 14AR, 26D, 29A, 34D, 35C, 36D, 37D, 38D, and 39D appear to have been anomalously high during fourth quarter 1991 as compared to preceding and more recent quarters.

Time series plots of pH for selected wells are also provided in Appendix F.

Water Levels

Hydrographs for selected wells and well clusters at the MWMF are provided in Appendix G. Average water elevations in the three hydrostratigraphic units beneath the MWMF for the past four quarters are shown in the following table.

Average Water Elevations (ft msl) in the Hydrostratigraphic Units Beneath the MWMF

Unit	3Q92	4Q92	1Q93	2Q93
Aquifer Zone IIB ₂ (Water Table)	231.83	231.99	233.46	233.89
Aquifer Zone IIB ₁ (Barnwell/McBean)	219.59	219.25	220.52	221.54
Aquifer Unit IIA (Congaree)	160.66	159.65	161.26	163.31

During second quarter 1993, the water level in Aquifer Zone IIB₂ (Water Table) increased an average of 0.43 ft compared to first quarter 1993, the water level in Aquifer Zone IIB₁ (Barnwell/McBean) increased an average of 1.02 ft, and the water level in Aquifer Unit IIA (Congaree) rose an average of 2.05 ft.

A consistent vertical head relationship exists among the hydrostratigraphic units monitored at the MWMF. Flow potential is downward from Aquifer Zone IIB₂ (Water Table) to Aquifer Zone IIB₁ (Barnwell/McBean) and downward from Aquifer Zone IIB₁ (Barnwell/McBean) to

Aquifer Unit IIA (Congaree). This relationship, which was first reported in 1988, exists at all BGO well clusters.

Groundwater Flow Rates and Directions

The groundwater in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) diverges beneath the Burial Ground Complex and discharges generally either to the north-northeast toward Upper Three Runs Creek or to the west-southwest toward Fourmile Branch (using SRS grid coordinates). Near Upper Three Runs Creek, the upper portion of the saturated zone lies beneath Confining Zone IIB₁-IIB₂ (Tan Clay) in Aquifer Zone IIB₁ (Barnwell/McBean). The horizontal groundwater flow direction in Aquifer Unit IIA (Congaree) is consistently northwest toward Upper Three Runs Creek.

Piezometric surfaces and groundwater flow directions for Aquifer Zone IIB₂ (Water Table), Aquifer Zone IIB₁ (Barnwell/McBean), and Aquifer Unit IIA (Congaree) during second quarter 1993 are illustrated in Figures 23, 24, and 25 (Appendix C), respectively. Several wells provided apparently anomalous water elevations during second quarter 1993 which were not used for contouring. These wells are: BGO 13DR, 16B, 43CR, 43D, and 45C, and BGX 2B and 4D in Aquifer Zone IIB₁ (Barnwell/McBean); and BGO 10AR, 25A, and 43A in the Aquifer Unit IIA (Congaree). Horizontal flow rate estimates for the three hydrostratigraphic units during the past four quarters are provided in the following table:

Horizontal Groundwater Flow Rates (ft/yr) in the Hydrostratigraphic Units Beneath the MWMF

Unit	3Q92	4Q92	1Q93	2Q93
Aquifer Zone IIB ₂ (Water Table)	12-24	15-26	16-40	19-33
Aquifer Zone IIB ₁ (Barnwell/McBean)	5.5-16	4.7-20	5.8-18	4.0-16
Aquifer Unit IIA (Congaree)	180	180	190	200

Horizontal flow rate calculations provide estimates of the transport rate of constituents originating from the MWMF. Flow rates in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) are calculated along two flow paths (designated flow paths A and B) to characterize the divergent groundwater flows toward Upper Three Runs Creek and Fourmile Branch. The flow rate for Aquifer Unit IIA (Congaree) is calculated along a single flow path because flow directions within this unit are generally more uniform than in the overlying units. Flow rates are estimated using the following equation:

$$\text{Flow (ft/day)} = \frac{\text{Hydraulic Conductivity (ft/day)}}{\text{Porosity (unitless)}} \times \frac{dh \text{ (ft)}}{dl \text{ (ft)}}$$

Hydraulic conductivity constants of 3.03 ft/day, 1.50 ft/day, and 45 ft/day are used for Aquifer Zone IIB₂ (Water Table), Aquifer Zone IIB₁ (Barnwell/McBean), and Aquifer Unit IIA (Congaree), respectively (WSRC, 1992b). An effective porosity value of 20% is used for the two upper units, and an effective porosity value of 25% is used for Aquifer Unit IIA (Congaree) (WSRC, 1992b). The value dh is the difference in head, and dl is the length of the flow path.

Flow path length is calculated to the nearest 50 ft for paths A of Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) and to the nearest 100 ft for the remaining flow paths. Flow rate per day is calculated to two significant figures, then multiplied by 365 and rounded to two significant figures for the flow rate per year. Flow rate estimates vary depending on the vertical gradient between wells, the size of the area under consideration, the number of data points, and the length and location of the flow path. Because these calculations are based on inferred or estimated parameters, flow rate estimates should be considered accurate to an order of magnitude only.

The flow rate estimates for groundwater in Aquifer Zone IIB₂ (Water Table) beneath the MWMF during second quarter 1993 are as follows (Figure 23, Appendix C):

Flow path A (toward Fourmile Branch)

$$\frac{3.03}{0.2} \times \frac{10}{3000} \approx 0.051 \text{ ft/day}$$

$$0.051 \text{ ft/day} \times 365 \approx 19 \text{ ft/yr}$$

Flow path B (toward Upper Three Runs Creek)

$$\frac{3.03}{0.2} \times \frac{12}{2000} \approx 0.091 \text{ ft/day}$$

$$0.091 \text{ ft/day} \times 365 \approx 33 \text{ ft/yr}$$

The flow rate estimates for groundwater in Aquifer Zone IIB₁ (Barnwell/McBean) beneath the MWMF are as follows (Figure 24, Appendix C):

Flow path A (toward Fourmile Branch)

$$\frac{1.50}{0.2} \times \frac{4}{2800} \approx 0.011 \text{ ft/day}$$

$$0.011 \text{ ft/day} \times 365 \approx 4.0 \text{ ft/yr}$$

Flow path B (toward Upper Three Runs Creek)

$$\frac{1.50}{0.2} \times \frac{10}{1700} \approx 0.044 \text{ ft/day}$$

$$0.044 \text{ ft/day} \times 365 \approx 16 \text{ ft/yr}$$

The flow rate estimate for groundwater in Aquifer Unit IIA (Congaree) beneath the MWMF is as follows (Figure 25, Appendix C):

$$\frac{45}{0.25} \times \frac{7}{2300} \approx 0.55 \text{ ft/day}$$

$$0.55 \text{ ft/day} \times 365 \approx 200 \text{ ft/yr}$$

Upgradient Versus Downgradient Results

Wells BGO 1D, 2D, and HSB 85C are upgradient wells in Aquifer Zone IIB₂ (Water Table); wells HSB 85A and 85B are upgradient wells in Aquifer Unit IIA (Congaree) and Aquifer Zone IIB₁ (Barnwell/McBean), respectively. The remaining wells in these hydrostratigraphic units monitor downgradient water quality.

None of the upgradient wells contained constituents that exceeded the final PDWS during second quarter 1993. Downgradient wells in the three hydrostratigraphic units contained elevated levels of chloroethene (vinyl chloride), 1,1-dichloroethylene, dichloromethane (methylene chloride), gross alpha, lead, nonvolatile beta, tetrachloroethylene, trichloroethylene, or tritium.

Conclusions

The groundwater at the MWMF contains elevated levels of heavy metals, radionuclides, volatile organic compounds, and other constituents resulting from 40 years of operations at the Burial Ground Complex. During second quarter 1993, nine constituents exceeded their final PDWS in one or more wells at the MWMF. Eight of these constituents—chloroethene (vinyl chloride), 1,1-dichloroethylene, gross alpha, lead, nonvolatile beta, tetrachloroethylene, trichloroethylene, and tritium—also occurred in elevated levels during first quarter 1993. Dichloromethane (methylene chloride), the remaining elevated constituent, did not occur in elevated levels during first quarter 1993, although it was present in several wells in levels that exceeded half the final PDWS.

As in previous quarters, tritium and trichloroethylene were the most widespread constituents. Fifty-seven (47%) of the 121 monitoring wells contained elevated tritium activities, with maximum activity ($9.9\text{E}+04$ pCi/mL) occurring in well BGO 28D in Aquifer Zone IIB₂ (Water Table). Trichloroethylene concentrations exceeded the final PDWS in 22 (18%) of the wells, with the maximum concentration found at 339 $\mu\text{g/L}$ in well BGO 28D in Aquifer Zone IIB₂ (Water Table).

Elevated constituent levels were found primarily in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean), consistent with historical data. Elevated levels of constituents also occurred in wells in Unit IIA (Congaree) as in past quarters, indicating that vertical pathways into this deeper water-bearing unit exist. A current groundwater flow model for the General Separations Area indicates that the vertical component beneath this area is important (GeoTrans, Inc., 1992).

Constituents exceeding the final PDWS were found only in downgradient wells. Generally, elevated levels of constituents found in downgradient wells but not in upgradient wells at a waste management unit are considered products of the waste management unit.

Groundwater in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) diverges beneath the Burial Ground Complex and discharges toward Upper Three Runs Creek or toward Fourmile Branch. During second quarter 1993, using SRS grid coordinates, flow in these units was to the north-northeast toward Upper Three Runs Creek or to the west-southwest toward Fourmile Branch. The groundwater flow direction in Aquifer Unit IIA (Congaree) is consistently northwest toward Upper Three Runs Creek.

Groundwater flow rate estimates were in the same order of magnitude as previous quarters. Estimates ranged from 19 ft/yr to 33 ft/yr in Aquifer Zone IIB₂ (Water Table) and from 4.0 ft/yr to 16 ft/yr in Aquifer Zone IIB₁ (Barnwell/McBean); the flow rate estimate in Aquifer Unit IIA (Congaree) was 200 ft/yr.

Errata

Second Quarter 1992:

- Page 3, paragraph 3, line 1: The sentence beginning "Thirty-two new BGO wells..." should read "Twenty-six new BGO wells...."
- Page 11, **Upgradient Versus Downgradient Results**: The upgradient wells for Aquifer Zone IIB₂ (Water Table) should be BGO 1D and HSB 85C. The discussion of upgradient versus downgradient results should be revised accordingly.

Third Quarter 1992:

- Prior to third quarter 1992, the results of certain analyses for nitrate-nitrite as nitrogen were reported incorrectly by the General Engineering laboratory as nitrate as nitrogen results. The analyses in the results tables for reports beginning third quarter 1992 are reported correctly (i.e., nitrate-nitrite results have been distinguished from true nitrate results).

Fourth Quarter 1992:

- Some of the values for earlier quarters presented in the results tables of this report may differ from the values for those same quarters presented in previous reports, and reported values may not match reported sample dates. These differences result from the following: (1) the computer program that creates the analytical results tables was revised beginning second quarter 1992 to present the highest value for analytes with more than one result (previously, the program presented the first value encountered in the data-base); (2) a new computer program, which rounds numbers differently from the former computer program, was first used during third quarter 1992; and (3) some reanalyses may have been performed by the laboratories after the quarterly reports had gone to press. The sample dates in the tables are the dates when the field data were collected. These dates may differ from the dates of the laboratory analyses if the highest results were obtained for samples collected on different dates.

First Quarter 1993:

- Page 10, footnote to table: The date the effective porosity value for Aquifer Unit IIA (Congaree) was changed should read "between second and third quarters 1992."
- Page D-9, Table 2: Dichloromethane (methylene chloride) should be italicized.

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Appendix A – Final Primary Drinking Water Standards

Final Primary Drinking Water Standards

Analyte	Unit	Level	Status	Source
Antimony	µg/L	6	Final	EPA, 1992b
Arsenic	µg/L	50	Final	EPA, 1992a
Asbestos	fibers/L	7,000,000	Final	EPA, 1992a
Barium	µg/L	2,000	Final	EPA, 1992a
Benzene	µg/L	5	Final	EPA, 1992a
Benzo[a]pyrene	µg/L	0.2	Final	EPA, 1992b
Beryllium	µg/L	4	Final	EPA, 1992b
Bis(2-ethylhexyl) phthalate	µg/L	6	Final	EPA, 1992b
Bromodichloromethane	µg/L	100 ^a	Final	EPA, 1992a
Bromoform	µg/L	100 ^a	Final	EPA, 1992a
2-sec-Butyl-4,6-dinitrophenol	µg/L	7	Final	EPA, 1992b
Cadmium	µg/L	5	Final	EPA, 1992a
Carbon tetrachloride	µg/L	5	Final	EPA, 1992a
Chlordane	µg/L	2	Final	EPA, 1992a
Chlorobenzene	µg/L	100	Final	EPA, 1992a
Chloroethene (Vinyl chloride)	µg/L	2	Final	EPA, 1992a
Chloroform	µg/L	100 ^a	Final	EPA, 1992a
Chromium	µg/L	100	Final	EPA, 1992a
Copper	µg/L	1,300	Final	EPA, 1992a
Cyanide	µg/L	200	Final	EPA, 1992b
Dibromochloromethane	µg/L	100 ^a	Final	EPA, 1992a
Dibromochloropropane	µg/L	0.2	Final	EPA, 1992a
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.05	Final	EPA, 1992a
1,2-Dichlorobenzene	µg/L	600	Final	EPA, 1992a
1,4-Dichlorobenzene	µg/L	75	Final	EPA, 1992a
1,2-Dichloroethane	µg/L	5	Final	EPA, 1992a
1,1-Dichloroethene	µg/L	7	Final	EPA, 1992a
1,2-Dichloroethene	µg/L	50	Final	EPA, 1992b
cis-1,2-Dichloroethene	µg/L	70	Final	EPA, 1992a
trans-1,2-Dichloroethene	µg/L	100	Final	EPA, 1992a
Dichloromethane (Methylene chloride)	µg/L	5	Final	EPA, 1992b
2,4-Dichlorophenoxyacetic acid	µg/L	70	Final	EPA, 1992a
1,2-Dichloropropane	µg/L	5	Final	EPA, 1992a
Endrin	µg/L	2	Final	EPA, 1992b
Ethylbenzene	µg/L	700	Final	EPA, 1992a
Fluoride	µg/L	4,000	Final	EPA, 1992a
Gross alpha ^b	pCi/L	1.5E + 01	Final	EPA, 1992a
Heptachlor	µg/L	0.4	Final	EPA, 1992a
Heptachlor epoxide	µg/L	0.2	Final	EPA, 1992a
Hexachlorobenzene	µg/L	1	Final	EPA, 1992b
Hexachlorocyclopentadiene	µg/L	50	Final	EPA, 1992b
Lead	µg/L	50	Final	SCDHEC, 1981
Lindane	µg/L	0.2	Final	EPA, 1992a
Mercury	µg/L	2	Final	EPA, 1992a
Methoxychlor	µg/L	40	Final	EPA, 1992a
Nickel	µg/L	100	Final	EPA, 1992b
Nitrate as nitrogen	µg/L	10,000	Final	EPA, 1992a
Nitrate-nitrite as nitrogen	µg/L	10,000	Final	EPA, 1992a
Nitrite as nitrogen	µg/L	1,000	Final	EPA, 1992a
Nonvolatile beta ^c	pCi/L	5E + 01	Final	EPA, 1977
PCBs ^d	µg/L	0.5	Final	EPA, 1992a
Pentachlorophenol	µg/L	1	Final	EPA, 1992a
Radium, total (Radium-226 and -228)	pCi/L	5E + 00	Final	EPA, 1992a

<u>Analyte</u>	<u>Unit</u>	<u>Level</u>	<u>Status</u>	<u>Source</u>
Selenium	µg/L	50	Final	EPA, 1992a
Strontium-89/90 ^a	pCi/L	8E+00	Final	EPA, 1992a
Strontium-90	pCi/L	8E+00	Final	EPA, 1992a
Styrene	µg/L	100	Final	EPA, 1992a
2,3,7,8-TCDD	µg/L	0.00003	Final	EPA, 1992b
Tetrachloroethylene	µg/L	5	Final	EPA, 1992a
Thallium	µg/L	2	Final	EPA, 1992b
Toluene	µg/L	1,000	Final	EPA, 1992a
Total trihalomethanes	µg/L	100	Final	EPA, 1992a
Toxaphene	µg/L	3	Final	EPA, 1992a
2,4,5-TP (Silvex)	µg/L	50	Final	EPA, 1992a
1,2,4-Trichlorobenzene	µg/L	70	Final	EPA, 1992b
1,1,1-Trichloroethane	µg/L	200	Final	EPA, 1992a
1,1,2-Trichloroethane	µg/L	5	Final	EPA, 1992b
Trichloroethylene	µg/L	5	Final	EPA, 1992a
Tritium	pCi/mL	2E+01	Final	EPA, 1992a
Xylenes	µg/L	10,000	Final	EPA, 1992a

- ^a This value is the drinking water standard for total trihalomethanes (the sum of bromoform, bromodichloromethane, chloroform, and dibromochloromethane).
- ^b The standard given is for gross alpha including radium-226 but excluding radon and uranium.
- ^c This is the screening level above which providers of public drinking water should perform analyses for specific man-made radionuclides. The standard for the total dose equivalent from all such radionuclides is 4 mrem per year.
- ^d Analyses were conducted in 1992 for the following: PCB 1016, PCB 1221, PCB 1232, PCB 1242, PCB 1248, PCB 1254, and PCB 1260.
- ^e For double radionuclide analyses where each separate radionuclide has its own standard, the more stringent standard is used.

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Appendix B – Flagging Criteria

Flagging Criteria

The Savannah River Site Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) flagging criteria are as follows:

- Flag 2 criteria for constituents equal the Safe Drinking Water Act (SDWA) final Primary Drinking Water Standard (PDWS), the SDWA proposed PDWS, or the SDWA Secondary Drinking Water Standard (SDWS). If a constituent does not have a drinking water standard, the Flag 2 criterion equals 10 times the method detection limit (MDL) calculated as the 90th percentile detection limit obtained recently by one of the primary analytical laboratories.
- Flag 1 criteria for constituents equal one-half of the final PDWS, one-half the proposed PDWS, or one-half the SDWS. If a constituent does not have a drinking water standard, the Flag 1 criterion equals 5 times the MDL calculated as the 90th percentile detection limit obtained recently by one of the primary analytical laboratories.
- Flag 0 criteria are assigned to constituent levels below Flag 1 criteria, constituent levels below the sample detection limits, or constituents having no flagging criteria.

The following parameters are not assigned flagging criteria: alkalinity, calcium, color, corrosivity, Eh, magnesium, odor, potassium, silica, sodium, total dissolved solids, total phosphates (as P), total phosphorus, and turbidity. In addition, common laboratory contaminants and cleaners including some phthalates, ketones, and toluene are not assigned flagging criteria.

Analyte	Unit	Flag 1	Flag 2	Source ^a
Acenaphthene	µg/L	50	100	EPA Method 8270
Acenaphthylene	µg/L	50	100	EPA Method 8270
Acetone	µg/L	500	1,000	EPA Method 8240
Acetonitrile (Methyl cyanide)	µg/L	500	1,000	EPA Method 8240
Acetophenone	µg/L	50	100	EPA Method 8270
2-Acetylaminofluorene	µg/L	50	100	EPA Method 8270
Acrolein	µg/L	100	200	EPA Method 8240
Acrylonitrile	µg/L	100	200	EPA Method 8240
Actinium-228	pCi/L	1.64E+03	3.27E+03	Proposed PDWS (EPA, 1991)
Aldrin	µg/L	0.25	0.5	EPA Method 8080
Alkalinity (as CaCO ₃)		No flag	No flag	Set by EPD/EMS
Allyl chloride	µg/L	250	500	EPA Method 8240
Aluminum	µg/L	25	50	SDWS (EPA, 1992c)
Americium-241	pCi/L	3.17E+00	6.34E+00	Proposed PDWS (EPA, 1991)
Americium-243	pCi/L	3.19E+00	6.37E+00	Proposed PDWS (EPA, 1991)
4-Aminobiphenyl	µg/L	50	100	EPA Method 8270
Ammonia	µg/L	500	1,000	APHA Method 417B
Ammonia nitrogen	µg/L	500	1,000	EPA Method 350.1
Aniline	µg/L	50	100	EPA Method 8270
Anthracene	µg/L	50	100	EPA Method 8270
Antimony	µg/L	3	6	Final PDWS (EPA, 1992b)
Antimony-125	pCi/L	1.5E+02	3E+02	Final PDWS (EPA, 1977)
Aramite	µg/L	50	100	EPA Method 8270
Arsenic	µg/L	25	50	Final PDWS (EPA, 1992a)

Analyte	Unit	Flag 1	Flag 2	Source ^a
Asbestos	Fibers/L	3,500,000	7,000,000	Final PDWS (EPA, 1992a)
Azobenzene	µg/L	50	100	EPA Method 825
Barium	µg/L	1,000	2,000	Final PDWS (EPA, 1992a)
Barium-140	pCi/L	4.5E+01	9E+01	Final PDWS (EPA, 1977)
Benzene	µg/L	2.5	5	Final PDWS (EPA, 1992a)
alpha-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
beta-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
delta-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
Benzidine	µg/L	250	500	EPA Method 8270
Benzo[a]anthracene	µg/L	0.05	0.1	Proposed PDWS (EPA, 1990)
Benzo[b]fluoranthene	µg/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Benzo[k]fluoranthene	µg/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Benzoic acid	µg/L	250	500	EPA Method 8270
Benzo[g,h,i]perylene	µg/L	50	100	EPA Method 8270
Benzo[a]pyrene	µg/L	0.1	0.2	Final PDWS (EPA, 1992b)
1,4-Benzquinone	µg/L	50	100	EPA Method 8270
Benzyl alcohol	µg/L	50	100	EPA Method 8270
Beryllium	µg/L	2	4	Final PDWS (EPA, 1992b)
Beryllium-7	pCi/L	3E+03	6E+03	Final PDWS (EPA, 1977)
Bis(2-chloroethoxy) methane	µg/L	50	100	EPA Method 8270
Bis(2-chloroethyl) ether	µg/L	50	100	EPA Method 8270
Bis(2-chloroisopropyl) ether	µg/L	50	100	EPA Method 8270
Bis(chloromethyl) ether	µg/L	50	100	EPA Method 8270
Bis(2-ethylhexyl) phthalate	µg/L	3	6	Final PDWS (EPA, 1992b)
Bromide	µg/L	5,000	10,000	EPA Method 300.0
Bromodichloromethane	µg/L	50	100	Final PDWS (EPA, 1992a)
Bromoform	µg/L	50	100	Final PDWS (EPA, 1992a)
Bromomethane (Methyl bromide)	µg/L	5	10	EPA Method 8240
4-Bromophenyl phenyl ether	µg/L	50	100	EPA Method 8270
2,3,5-Butyl-4,6-dinitrophenol	µg/L	3.5	7	Final PDWS (EPA, 1992b)
Butylbenzyl phthalate		No flag	No flag	Set by EPD/EMS
Cadmium	µg/L	2.5	5	Final PDWS (EPA, 1992a)
Calcium		No flag	No flag	Set by EPD/EMS
Carbon disulfide	µg/L	5	10	EPA Method 8240
Carbon tetrachloride	µg/L	2.5	5	Final PDWS (EPA, 1992a)
Carbon-14	pCi/L	1E+03	2E+03	Final PDWS (EPA, 1977)
Carbonate		No flag	No flag	Set by EPD/EMS
Cerium-141	pCi/L	1.5E+02	3E+02	Final PDWS (EPA, 1977)
Cerium-144	pCi/L	1.31E+02	2.61E+02	Proposed PDWS (EPA, 1991)
Cesium-134 ^b	pCi/L	4.07E+01	8.13E+01	Proposed PDWS (EPA, 1991)
Cesium-137	pCi/L	1E+02	2E+02	Final PDWS (EPA, 1977)
Chlordane	µg/L	1	2	Final PDWS (EPA, 1992a)
Chloride	µg/L	125,000	250,000	SDWS (EPA, 1992c)
4-Chloroaniline	µg/L	50	100	EPA Method 8270
Chlorobenzene	µg/L	50	100	Final PDWS (EPA, 1992a)
Chlorobenzilate	µg/L	50	100	EPA Method 8270
Chloroethane	µg/L	5	10	EPA Method 8240
Chloroethene (Vinyl chloride)	µg/L	1	2	Final PDWS (EPA, 1992a)
Chloroethyl vinyl ether	µg/L	5	10	EPA Method 8240
2-Chloroethyl vinyl ether	µg/L	5	10	EPA Method 8240
Chloroform	µg/L	50	100	Final PDWS (EPA, 1992a)
4-Chloro-m-cresol	µg/L	50	100	EPA Method 8270
Chloromethane (Methyl chloride)	µg/L	5	10	EPA Method 8240
2-Chloronaphthalene	µg/L	50	100	EPA Method 8240
2-Chlorophenol	µg/L	50	100	EPA Method 8270

Analyte	Unit	Flag 1	Flag 2	Source ^a
4-Chlorophenyl phenyl ether	µg/L	50	100	EPA Method 8270
Chloroprene	µg/L	1,000	2,000	EPA Method 8240
Chromium	µg/L	50	100	Final PDWS (EPA, 1992a)
Chromium-51	pCi/L	3E+03	6E+03	Final PDWS (EPA, 1977)
Chrysene	µg/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Cobalt	µg/L	20	40	EPA Method 6010
Cobalt-57	pCi/L	5E+02	1E+03	Final PDWS (EPA, 1977)
Cobalt-58	pCi/L	4.5E+03	9E+03	Final PDWS (EPA, 1977)
Cobalt-60	pCi/L	5E+01	1E+02	Final PDWS (EPA, 1977)
Color		No flag	No flag	Set by EPD/EMS
Copper	µg/L	650	1,300	Final PDWS (EPA, 1992a)
Corrosivity		No flag	No flag	Set by EPD/EMS
m-Cresol (3-Methylphenol)	µg/L	50	100	EPA Method 8270
o-Cresol (2-Methylphenol)	µg/L	50	100	EPA Method 8270
p-Cresol (4-Methylphenol)	µg/L	50	100	EPA Method 8270
Curium-242	pCi/L	6.65E+01	1.33E+02	Proposed PDWS (EPA, 1991)
Curium-243	pCi/L	4.15E+00	8.3E+00	Proposed PDWS (EPA, 1991)
Curium-243/244°	pCi/L	4.15E+00	8.3E+00	Proposed PDWS (EPA, 1991)
Curium-244	pCi/L	4.92E+00	9.84E+00	Proposed PDWS (EPA, 1991)
Curium-245/246°	pCi/L	3.12E+00	6.23E+00	Proposed PDWS (EPA, 1991)
Curium-246	pCi/L	3.14E+00	6.27E+00	Proposed PDWS (EPA, 1991)
Cyanide	µg/L	100	200	Final PDWS (EPA, 1992b)
p,p'-DDD	µg/L	0.5	1	EPA Method 8080
p,p'-DDE	µg/L	0.5	1	EPA Method 8080
p,p'-DDT	µg/L	0.5	1	EPA Method 8080
Di-n-butyl phthalate		No flag	No flag	Set by EPD/EMS
Di-n-octyl phthalate		No flag	No flag	Set by EPD/EMS
Diallate	µg/L	50	100	EPA Method 8270
Dibenz[a,h]anthracene	µg/L	0.15	0.3	Proposed PDWS (EPA, 1990)
Dibenzofuran	µg/L	50	100	EPA Method 8270
Dibromochloromethane	µg/L	50	100	Final PDWS (EPA, 1992a)
1,2-Dibromo-3-chloropropane	µg/L	0.1	0.2	Final PDWS (EPA, 1992a)
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.025	0.05	Final PDWS (EPA, 1992a)
Dibromomethane (Methylene bromide)	µg/L	5	10	EPA Method 8240
1,2-Dichlorobenzene	µg/L	300	600	Final PDWS (EPA, 1992a)
1,3-Dichlorobenzene	µg/L	50	100	EPA Method 8270
1,4-Dichlorobenzene	µg/L	37.5	75	Final PDWS (EPA, 1992a)
3,3'-Dichlorobenzidine	µg/L	50	100	EPA Method 8270
trans-1,4-Dichloro-2-butene	µg/L	150	300	EPA Method 8240
Dichlorodifluoromethane	µg/L	5	10	EPA Method 8240
1,1-Dichloroethane	µg/L	5	10	EPA Method 8240
1,2-Dichloroethane	µg/L	2.5	5	Final PDWS (EPA, 1992a)
1,1-Dichloroethene	µg/L	3.5	7	Final PDWS (EPA, 1992a)
1,2-Dichloroethene	µg/L	25	50	Final PDWS (EPA, 1992b)
cis-1,2-Dichloroethene	µg/L	35	70	Final PDWS (EPA, 1992a)
trans-1,2-Dichloroethene	µg/L	50	100	Final PDWS (EPA, 1992a)
Dichloromethane (Methylene chloride)	µg/L	2.5	5	Final PDWS (EPA, 1992b)
2,4-Dichlorophenol	µg/L	50	100	EPA Method 8270
2,6-Dichlorophenol	µg/L	50	100	EPA Method 8270
2,4-Dichlorophenoxyacetic acid	µg/L	35	70	Final PDWS (EPA, 1992a)
1,2-Dichloropropane	µg/L	2.5	5	Final PDWS (EPA, 1992a)
cis-1,3-Dichloropropene	µg/L	5	10	EPA Method 8240

Analyte	Unit	Flag 1	Flag 2	Source ^a
trans-1,3-Dichloropropene	µg/L	5	10	EPA Method 8240
Dieldrin	µg/L	2.5	5	EPA Method 8080
Diethyl phthalate		No flag	No flag	Set by EPD/EMS
Dimethoate	µg/L	50	100	EPA Method 8270
p-Dimethylaminoazobenzene	µg/L	50	100	EPA Method 8270
p-(Dimethylamino)ethylbenzene	µg/L	50	100	EPA Method 8270
7,12-Dimethylbenz[a]anthracene	µg/L	50	100	EPA Method 8270
3,3'-Dimethylbenzidine	µg/L	50	100	EPA Method 8270
a,a-Dimethylphenethylamine	µg/L	50	100	EPA Method 8270
2,4-Dimethyl phenol	µg/L	50	100	EPA Method 8270
Dimethyl phthalate		No flag	No flag	Set by EPD/EMS
1,3-Dinitrobenzene	µg/L	50	100	EPA Method 8270
2,4-Dinitrophenol	µg/L	250	500	EPA Method 8270
2,4-Dinitrotoluene	µg/L	50	100	EPA Method 8270
2,6-Dinitrotoluene	µg/L	50	100	EPA Method 8270
1,4-Dioxane	µg/L	50	100	EPA Method 8270
Diphenylamine	µg/L	50	100	EPA Method 8270
1,2-Diphenylhydrazine	µg/L	50	100	EPA Method 8270
Dissolved organic carbon	µg/L	5,000	10,000	EPA Method 9060
Disulfoton	µg/L	50	100	EPA Method 8270
Eh		No flag	No flag	Set by EPD/EMS
alpha-Endosulfan	µg/L	50	100	EPA Method 8270
beta-Endosulfan	µg/L	50	100	EPA Method 8270
Endosulfan I	µg/L	0.5	1	EPA Method 8080
Endosulfan II	µg/L	0.5	1	EPA Method 8080
Endosulfan sulfate	µg/L	0.5	1	EPA Method 8080
Endrin	µg/L	1	2	Final PDWS (EPA, 1992b)
Endrin aldehyde	µg/L	0.5	1	EPA Method 8080
Endrin ketone		No flag	No flag	Set by EPD/EMS
Ethylbenzene	µg/L	350	700	Final PDWS (EPA, 1992a)
Ethyl methacrylate	µg/L	50	100	EPA Method 8270
Ethyl methanesulfonate	µg/L	50	100	EPA Method 8270
Europium-152	pCi/L	3E+01	6E+01	Final PDWS (EPA, 1977)
Europium-154	pCi/L	1E+02	2E+02	Final PDWS (EPA, 1977)
Europium-155	pCi/L	3E+02	6E+02	Final PDWS (EPA, 1977)
Famphur	µg/L	50	100	EPA Method 8270
Fluoranthene	µg/L	50	100	EPA Method 8270
Fluorene	µg/L	50	100	EPA Method 8270
Fluoride	µg/L	2,000	4,000	Final PDWS (EPA, 1992a)
Gross alpha	pCi/L	7.5E+00	1.5E+01	Final PDWS (EPA, 1992a)
Heptachlor	µg/L	0.2	0.4	Final PDWS (EPA, 1992a)
Heptachlor epoxide	µg/L	0.1	0.2	Final PDWS (EPA, 1992a)
Heptachlorodibenzo-p-dioxin isomers	µg/L	0.00325	0.0065	EPA Method 8280
1,2,3,4,6,7,8-HPCDD	µg/L	0.00325	0.0065	EPA Method 8280
Heptachlorodibenzo-p-furan isomers	µg/L	0.00225	0.0045	EPA Method 8280
1,2,3,4,6,7,8-HPCDF	µg/L	0.00225	0.0045	EPA Method 8280
Hexachlorobenzene	µg/L	0.5	1	Final PDWS (EPA, 1992b)
Hexachlorobutadiene	µg/L	50	100	EPA Method 8270
Hexachlorocyclopentadiene	µg/L	25	50	Final PDWS (EPA, 1992b)
Hexachlorodibenzo-p-dioxin isomers	µg/L	0.00225	0.0045	EPA Method 8280
1,2,3,4,7,8-HXCDD	µg/L	0.00225	0.0045	EPA Method 8280
Hexachlorodibenzo-p-furan isomers	µg/L	0.002	0.004	EPA Method 8280
1,2,3,4,7,8-HXCDF	µg/L	0.002	0.004	EPA Method 8280

Analyte	Unit	Flag 1	Flag 2	Source ^a
Hexachloroethane	µg/L	50	100	EPA Method 8270
Hexachlorophene	µg/L	250	500	EPA Method 8270
Hexachloropropene	µg/L	50	100	EPA Method 8270
2-Hexanone	µg/L	50	100	EPA Method 8240
Indeno[1,2,3-c,d]pyrene	µg/L	50	100	EPA Method 8270
Iodine	µg/L	250	500	APHA Method 415A
Iodine-129	pCi/L	5E-01	1E+00	Final PDWS (EPA, 1977)
Iodine-131	pCi/L	1.5E+00	3E+00	Final PDWS (EPA, 1977)
Iodomethane (Methyl iodide)	µg/L	75	150	EPA Method 8240
Iron	µg/L	150	300	SDWS (EPA, 1992c)
Iron-55	pCi/L	1E+03	2E+03	Final PDWS (EPA, 1977)
Iron-59	pCi/L	1E+02	2E+02	Final PDWS (EPA, 1977)
Isobutyl alcohol	µg/L	500	1,000	EPA Method 8240
Isodrin	µg/L	50	100	EPA Method 8270
Isophorone	µg/L	50	100	EPA Method 8270
Isosafrole	µg/L	50	100	EPA Method 8270
Kepone	µg/L	50	100	EPA Method 8270
Lanthanum-140	pCi/L	3E+01	6E+01	Final PDWS (EPA, 1977)
Lead	µg/L	7.5	15	Final PDWS (EPA, 1992a)
Lindane	µg/L	0.1	0.2	Final PDWS (EPA, 1992a)
Lithium	µg/L	25	50	EPA Method 6010
Magnesium		No flag	No flag	Set by EPD/EMS
Manganese	µg/L	25	50	SDWS (EPA, 1992c)
Manganese-54	pCi/L	1.5E+02	3E+02	Final PDWS (EPA, 1977)
Mercury	µg/L	1	2	Final PDWS (EPA, 1992a)
Methacrylonitrile	µg/L	250	500	EPA Method 8240
Methapyrilene	µg/L	50	100	EPA Method 8270
Methoxychlor	µg/L	20	40	Final PDWS (EPA, 1992a)
3-Methylcholanthrene	µg/L	50	100	EPA Method 8270
2-Methyl-4,6-dinitrophenol	µg/L	250	500	EPA Method 8270
Methyl ethyl ketone		No flag	No flag	Set by EPD/EMS
Methyl isobutyl ketone		No flag	No flag	Set by EPD/EMS
Methyl methacrylate	µg/L	50	100	EPA Method 8270
Methyl methanesulfonate	µg/L	50	100	EPA Method 8270
2-Methylnaphthalene	µg/L	50	100	EPA Method 8270
Molybdenum	µg/L	250	500	EPA Method 6010
Naphthalene	µg/L	50	100	EPA Method 8270
1,4-Naphthoquinone	µg/L	50	100	EPA Method 8270
1-Naphthylamine	µg/L	50	100	EPA Method 8270
2-Naphthylamine	µg/L	50	100	EPA Method 8270
Neptunium-237	pCi/L	3.53E+00	7.06E+00	Proposed PDWS (EPA, 1991)
Nickel	µg/L	50	100	Final PDWS (EPA, 1992b)
Nickel-59	pCi/L	1.5E+02	3E+02	Final PDWS (EPA, 1977)
Nickel-63	pCi/L	2.5E+01	5E+01	Final PDWS (EPA, 1977)
Niobium-95	pCi/L	1.5E+02	3.E+02	Final PDWS (EPA, 1977)
Nitrate as nitrogen	µg/L	5,000	10,000	Final PDWS (EPA, 1992a)
Nitrate-nitrite as nitrogen	µg/L	5,000	10,000	Final PDWS (EPA, 1992a)
Nitrite as nitrogen	µg/L	500	1,000	Final PDWS (EPA, 1992a)
2-Nitroaniline	µg/L	50	100	EPA Method 8270
3-Nitroaniline	µg/L	50	100	EPA Method 8270
4-Nitroaniline	µg/L	50	100	EPA Method 8270
Nitrobenzene	µg/L	50	100	EPA Method 8270
Nitrogen by Kjeldahl method	µg/L	500	1,000	EPA Method 351.2
2-Nitrophenol	µg/L	50	100	EPA Method 8270
4-Nitrophenol	µg/L	50	100	EPA Method 8270

Analyte	Unit	Flag 1	Flag 2	Source ^a
4-Nitroquinoline-1-oxide	µg/L	50	100	EPA Method 8270
N-Nitrosodi-n-butylamine	µg/L	50	100	EPA Method 8270
N-Nitrosodiethylamine	µg/L	50	100	EPA Method 8270
N-Nitrosodimethylamine	µg/L	50	100	EPA Method 8270
N-Nitrosodiphenylamine	µg/L	50	100	EPA Method 8270
N-Nitrosodipropylamine	µg/L	50	100	EPA Method 8270
N-Nitrosomethylethylamine	µg/L	50	100	EPA Method 8270
N-Nitrosomorpholine	µg/L	50	100	EPA Method 8270
N-Nitrosopiperidine	µg/L	50	100	EPA Method 8270
N-Nitrosopyrrolidine	µg/L	50	100	EPA Method 8270
5-Nitro-o-toluidine	µg/L	50	100	EPA Method 8270
Nonvolatile beta	pCi/L	2.5E+01	5E+01	Proposed PDWS (EPA, 1986)
Octachlorodibenzo-p-dioxin isomers	µg/L	0.005	0.01	EPA Method 8280
Octachlorodibenzo-p-furan isomers	µg/L	0.005	0.01	EPA Method 8280
Odor		No flag	No flag	Set by EPD/EMS
Oil & Grease	µg/L	5,000	10,000	EPA Method 413.1
Parathion	µg/L	0.25	0.5	EPA Method 8080
Parathion methyl	µg/L	0.25	0.5	EPA Method 8080
PCB 1016	µg/L	0.25	0.5	Final PDWS (EPA, 1992a)
PCB 1221	µg/L	0.25	0.5	Final PDWS (EPA, 1992a)
PCB 1232	µg/L	0.25	0.5	Final PDWS (EPA, 1992a)
PCB 1242	µg/L	0.25	0.5	Final PDWS (EPA, 1992a)
PCB 1248	µg/L	0.25	0.5	Final PDWS (EPA, 1992a)
PCB 1254	µg/L	0.25	0.5	Final PDWS (EPA, 1992a)
PCB 1260	µg/L	0.25	0.5	Final PDWS (EPA, 1992a)
PCB 1262	µg/L	0.25	0.5	Final PDWS (EPA, 1992a)
Pentachlorobenzene	µg/L	50	100	EPA Method 8270
Pentachlorodibenzo-p-dioxin isomers	µg/L	0.00275	0.0055	EPA Method 8280
1,2,3,7,8-PCDD	µg/L	0.00275	0.0055	EPA Method 8280
Pentachlorodibenzo-p-furan isomers	µg/L	0.00275	0.0055	EPA Method 8280
1,2,3,7,8-PCDF	µg/L	0.00275	0.0055	EPA Method 8280
Pentachloroethane	µg/L	50	100	EPA Method 8270
Pentachloronitrobenzene	µg/L	50	100	EPA Method 8270
Pentachlorophenol	µg/L	0.5	1	Final PDWS (EPA, 1992a)
pH	pH	8	10	Set by EPD/EMS
pH	pH	4	3	Set by EPD/EMS
Phenacetin	µg/L	50	100	EPA Method 8270
Phenanthrene	µg/L	50	100	EPA Method 8270
Phenol	µg/L	50	100	EPA Method 8270
Phenols	µg/L	25	50	EPA Method 420.1
p-Phenylenediamine	µg/L	50	100	EPA Method 8270
Phorate	µg/L	0.5	1	EPA Method 8080
2-Picoline	µg/L	50	100	EPA Method 8270
Plutonium-238	pCi/L	3.51E+00	7.02E+00	Proposed PDWS (EPA, 1991)
Plutonium-239	pCi/L	3.11E+01	6.21E+01	Proposed PDWS (EPA, 1991)
Plutonium-239/240 ^c	pCi/L	3.11E+01	6.21E+01	Proposed PDWS (EPA, 1991)
Plutonium-240	pCi/L	3.11E+01	6.22E+01	Proposed PDWS (EPA, 1991)
Plutonium-241	pCi/L	3.13E+01	6.26E+01	Proposed PDWS (EPA, 1991)
Plutonium-242	pCi/L	3.27E+01	6.54E+01	Proposed PDWS (EPA, 1991)
Potassium		No flag	No flag	Set by EPD/EMS
Potassium-40	pCi/L	1.5E+02	3E+02	Proposed PDWS (EPA, 1986)
Pronamid	µg/L	50	100	EPA Method 8270
Propionitrile	µg/L	1,000	2,000	EPA Method 8240
Pyrene	µg/L	50	100	EPA Method 8270
Pyridine	µg/L	50	100	EPA Method 8270

Analyte	Unit	Flag 1	Flag 2	Source ^a
Radium (alpha-emitting) ^d	pCi/L	1E+01	2E+01	Proposed PDWS (EPA, 1991)
Radium-226	pCi/L	1E+01	2E+01	Proposed PDWS (EPA, 1991)
Radium-228	pCi/L	1E+01	2E+01	Proposed PDWS (EPA, 1991)
Radon-222	pCi/L	1.5E+02	3E+02	Proposed PDWS (EPA, 1991)
Ruthenium-103	pCi/L	1E+02	2E+02	Final PDWS (EPA, 1977)
Ruthenium-106	pCi/L	1.5E+01	3E+01	Final PDWS (EPA, 1977)
Safrole	μg/L	50	100	EPA Method 8270
Selenium	μg/L	25	50	Final PDWS (EPA, 1992a)
Silica		No flag	No flag	Set by EPD/EMS
Total silica	μg/L	500	1,000	EPA Method 6010
Silver	μg/L	50	100	SDWS (EPA, 1992c)
Sodium		No flag	No flag	Set by EPD/EMS
Sodium-22	pCi/L	2.33E+02	4.66E+02	Proposed PDWS (EPA, 1991)
Specific conductance	μS/cm	250	500	Set by EPD/EMS
Strontium-89	pCi/L	1E+01	2E+01	Final PDWS (EPA, 1977)
Strontium-89/90 ^c	pCi/L	4E+00	8E+00	Final PDWS (EPA, 1992a)
Strontium-90	pCi/L	4E+00	8E+00	Final PDWS (EPA, 1992a)
Styrene	μg/L	50	100	Final PDWS (EPA, 1992a)
Sulfate	μg/L	200,000	400,000	Proposed PDWS (EPA, 1990)
Sulfide	μg/L	5,000	10,000	EPA Method 9030
Sulfotep	μg/L	50	100	EPA Method 8270
Surfactants		No flag	No flag	Set by EPD/EMS
2,3,7,8-TCDD	μg/L	0.000015	0.00003	Final PDWS (EPA, 1992b)
2,3,7,8-TCDF	μg/L	0.002	0.004	EPA Method 8280
Technetium-99	pCi/L	4.5E+02	9E+02	Final PDWS (EPA, 1977)
1,2,4,5-Tetrachlorobenzene	μg/L	50	100	EPA Method 8270
Tetrachlorodibenzo-p-dioxin isomers	μg/L	0.00225	0.0045	EPA Method 8230
Tetrachlorodibenzo-p-furan isomers	μg/L	0.002	0.004	EPA Method 8280
1,1,1,2-Tetrachloroethane	μg/L	5	10	EPA Method 8240
1,1,2,2-Tetrachloroethane	μg/L	5	10	EPA Method 8240
Tetrachloroethylene	μg/L	2.5	5	Final PDWS (EPA, 1992a)
2,3,4,6-Tetrachlorophenol	μg/L	50	100	EPA Method 8270
Tetraethyl dithiopyrophosphate	μg/L	50	100	EPA Method 8270
Thallium	μg/L	1	2	Final PDWS (EPA, 1992b)
Thionazin	μg/L	50	100	EPA Method 8270
Thorium-228	pCi/L	6.25E+01	1.25E+02	Proposed PDWS (EPA, 1991)
Thorium-230	pCi/L	3.96E+01	7.92E+01	Proposed PDWS (EPA, 1991)
Thorium-232	pCi/L	4.4E+01	8.8E+01	Proposed PDWS (EPA, 1991)
Thorium-234	pCi/L	2E+02	4.01E+02	Proposed PDWS (EPA, 1991)
Tin	μg/L	10	20	EPA Method 282.2
Tin-113	pCi/L	1.5E+02	3E+02	Final PDWS (EPA, 1977)
Toluene	μg/L	500	1,000	Final PDWS (EPA, 1992a)
o-Toluidine	μg/L	50	100	EPA Method 8270
Total carbon	μg/L	5,000	10,000	EPA Method 9060
Total dissolved solids		No flag	No flag	Set by EPD/EMS
Total hydrocarbons	μg/L	5,000	10,000	EPA Method 418.1
Total inorganic carbon	μg/L	5,000	10,000	EPA Method 9060
Total organic carbon	μg/L	5,000	10,000	EPA Method 9060
Total organic halogens	μg/L	25	50	EPA Method 9020
Total organic nitrogen	μg/L	500	1,000	APHA Method 420
Total petroleum hydrocarbons	μg/L	5,000	10,000	EPA Method 418.1
Total phosphates (as P)		No flag	No flag	Set by EPD/EMS
Total phosphorus		No flag	No flag	Set by EPD/EMS

Analyte	Unit	Flag 1	Flag 2	Source ^a
Toxaphene	µg/L	1.5	3	Final PDWS (EPA, 1992a)
2,4,5-TP (Silvex)	µg/L	25	50	Final PDWS (EPA, 1992a)
Tributyl phosphate	µg/L	50	100	EPA Method 8270
1,2,4-Trichlorobenzene	µg/L	35	70	Final PDWS (EPA, 1992b)
1,1,1-Trichloroethane	µg/L	100	200	Final PDWS (EPA, 1992a)
1,1,2-Trichloroethane	µg/L	2.5	5	Final PDWS (EPA, 1992b)
Trichloroethylene	µg/L	2.5	5	Final PDWS (EPA, 1992a)
Trichlorofluoromethane	µg/L	5	10	EPA Method 8240
2,4,5-Trichlorophenol	µg/L	50	100	EPA Method 8270
2,4,6-Trichlorophenol	µg/L	50	100	EPA Method 8270
2,4,5-Trichlorophenoxyacetic acid	µg/L	2.5	5	EPA Method 8150
1,2,3-Trichloropropane	µg/L	5	10	EPA Method 8240
O,O,O-Triethyl phosphorothioate	µg/L	50	100	EPA Method 8270
1,3,5-Trinitrobenzene	µg/L	50	100	EPA Method 8270
Tritium	pCi/mL	1E+01	2E+01	Final PDWS (EPA, 1992a)
Turbidity		No flag	No flag	Set by EPD/EMS
Uranium	µg/L	10	20	Proposed PDWS (EPA, 1991)
Uranium alpha activity	pCi/L	1.5E+01	3E+01	Proposed PDWS (EPA, 1991)
Uranium-233/234 ^c	pCi/L	6.9E+00	1.38E+01	Proposed PDWS (EPA, 1991)
Uranium-234	pCi/L	6.95E+00	1.39E+01	Proposed PDWS (EPA, 1991)
Uranium-235	pCi/L	7.25E+00	1.45E+01	Proposed PDWS (EPA, 1991)
Uranium-238	pCi/L	7.3E+00	1.46E+01	Proposed PDWS (EPA, 1991)
Vanadium	µg/L	40	80	EPA Method 6010
Vinyl acetate	µg/L	5	10	EPA Method 8240
Xylenes	µg/L	5,000	10,000	Final PDWS (EPA, 1992a)
Zinc	µg/L	2,500	5,000	SDWS (EPA, 1992c)
Zinc-65	pCi/L	1.5E+02	3E+02	Final PDWS (EPA, 1977)
Zirconium-95	pCi/L	1E+02	2E+02	Final PDWS (EPA, 1977)
Zirconium/Niobium-95 ^c	pCi/L	1E+02	2E+02	Final PDWS (EPA, 1977)

^a References for methods are found in Appendix E; references for dated sources are at the end of this appendix.

^b EPD/EMS set this flagging criterion using the 1991 proposed PDWS because the final PDWS in 1977 may have been in error.

^c When radionuclide analyses are combined, the lower PDWS of the two isotopes is used for flagging.

^d The applied standard is for radium-226.

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Appendix C – Figures

Figure 1. Location of the Mixed Waste Management Facility at the Savannah River Site

Figure 2. Location of the Groundwater Monitoring Wells at the Mixed Waste Management Facility, the Old Burial Ground, the E-Area Vaults, and the Hazardous Waste/Mixed Waste Disposal Vaults (the Burial Ground Complex)

Geologic Age	Lithostratigraphic Units		Hydrostratigraphic Units				
Tertiary	"Upland Unit"		Regulatory Uppermost Aquifer	Aquifer Unit IIB	Aquifer Zone IIB ₂	Aquifer System II	
	Barnwell Group	Tobacco Rd Formation			Confining Zone IIB ₁ -IIB ₂		
		Dry Branch Formation			Aquifer Zone IIB ₁		
		Clinchfield Formation					
	Santee Limestone Formation				Confining Unit IIA-IIB		
	Warley Hill Formation				Aquifer Unit IIA		
	Congaree/ Fishburne Formations						
	Williamsburg Formation		Confining System I-II				
	Ellenton Formation						

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Figure 3. Hydrostratigraphic Nomenclature

	SIPLE (1987)	SRP BASELINE HYDROGEOLOGIC STUDY		GEOTRANS (1988)	AUCOTT (1987)	DUPONT (1989)		AADLAND and BLEDSOE (1990)							
T E R T I A R Y	HAWTHORNE AQUIFER	UPLAND UNIT		AQUIFER 4	TERTIARY SAND AQUIFER	ZONE 8		A Q U I F E R S Y S T E M I/II	AQUIFER UNIT I/IIc	S Y S T E M S B O U N D A R Y	AQUIFER UNIT IIB	AQUIFER SYSTEM II			
	BARNWELL AQUIFER	B A R N W E L L	T O B A C C O R D F M D R Y B R A N C H F M			ZONE 7	7a								
							7b								
							7c								
	McBEAN AQUITARD GREEN CLAY	McBEAN FORMATION GREEN CLAY				ZONE 6							CONFINING UNIT IIA-IIB		
	CONGAREE AQUIFER	CONGAREE		AQUIFER 3	ZONE 5	5b	5a				AQUIFER UNIT IIA				
ELLENTON AQUITARD	WILLIAMSBURG FORMATION		AQUITARD 2	CONFINING UNIT	ZONE 4		CONFINING UNIT IIA-IIB				AQUIFER UNIT IB	CONFINING SYSTEM I-II			
	ELLENTON FORMATION														
C R E T A C E O U S	UPPER TUSCALOOSA AQUIFER	PEEDEE FORMATION		AQUIFER 2	BLACK CREEK AQUIFER	ZONE 3	3b				CONFINING UNIT I/IIb-I/IIc	AQUIFER UNIT I/IIb	CONFINING UNIT IIA-IIB	AQUIFER UNIT IA	AQUIFER SYSTEM I
	MID TUSCALOOSA AQUITARD	BLACK CREEK FORMATION					AQUITARD 1								
	LOWER TUSCALOOSA AQUIFER	MIDDENDORF FORMATION		AQUIFER 1	MIDDENDORF AQUIFER	ZONE 2	2b				AQUIFER UNIT I/IIa				
	BASAL CLAY AQUITARD	CAPE FEAR FORMATION		BASE OF MODEL	CONFINING UNIT	ZONE 1	CONFINING SYSTEM I				CONFINING SYSTEM I				
TRIASSIC OR PALEOZOIC BASEMENT											PALEOZOIC - TRIASSIC BASEMENT HYDROLOGIC SYSTEM				

Figure 4. Regional Correlation of Hydrostratigraphic and Lithostratigraphic Nomenclature

Figure 5. Location of Aquifer Zone IIB₂ (Water Table) Wells at the Burial Ground Complex

Figure 6. Location of Aquifer Zone IIB₁ (Barnwell/McBean) Wells at the Burial Ground Complex

Figure 7. Location of Aquifer Unit IIA (Congaree) Wells at the Burial Ground Complex

Figure 8. Tritium Activities in Aquifer Zone IIB₂ (Water Table) at the Burial Ground Complex, Second Quarter 1993

Figure 9. Trichloroethylene Concentrations in Aquifer Zone IIB₂ (Water Table) at the Burial Ground Complex, Second Quarter 1993

Figure 10. Benzene Concentrations in Aquifer Zone IIB₂ (Water Table) at the Burial Ground Complex, Second Quarter 1993

Figure 11. Tritium Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the Burial Ground Complex, Second Quarter 1993

Second Quarter 1993

Figure 13. Benzene Concentrations in Aquifer Zone IIB₁ (Barnwell/McBean) at the Burial Ground Complex, Second Quarter 1993

Figure 14. Tritium Activities in Aquifer Unit IIA (Congaree) at the Burial Ground Complex, Second Quarter 1993

Figure 16. Benzene Concentrations in Aquifer Unit IIA (Congaree) at the Burial Ground Complex, Second Quarter 1993

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Figure 18. Specific Conductance in Aquifer Zone IIB₂ (Water Table) at the Burial Ground Complex, Second Quarter 1993

Figure 19. pH Levels in Aquifer Zone IIB₁ (Barnwell/McBean) at the Burial Ground Complex, Second Quarter 1993

Figure 20. Specific Conductance in Aquifer Zone IIB₁ (Barnwell/McBean) at the Burial Ground Complex, Second Quarter 1993

Figure 21. pH Levels in Aquifer Unit IIA (Congaree) at the Burial Ground Complex, Second Quarter 1993

Figure 22. Specific Conductance in Aquifer Unit IIA (Congaree) at the Burial Ground Complex, Second Quarter 1993

Figure 23. Piezometric Surface Map of Aquifer Zone IIB₂ (Water Table) at the Burial Ground Complex

Figure 24. Potentiometric Surface Map of Aquifer Zone IIB₁ (Barnwell/McBean) at the Burial Ground Complex

Figure 25. Potentiometric Surface Map of Aquifer Unit IIA (Congaree) at the Burial Ground Complex

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Appendix D – Groundwater Monitoring Results Tables

Key to Reading the Tables

The following abbreviations may appear in the tabular data:

B = sample collected from well using an open bucket bailer
 BA = Barringer Laboratories, Inc.
 CN = Clemson Technical Center, Inc.
 CS = carbon steel
 D = primary drinking water standard (PDWS)
 E = exponential notation (e.g., $1.1E-09 = 1.1 \times 10^{-9} = 0.0000000011$)
 EM = Environmental Protection Department/Environmental Monitoring Section (EPD/EMS)
 Laboratory
 GE = General Engineering Laboratories
 GP = Environmental Physics, Inc.
 H = holding time
 1,2,3,4,6,7,8-HPCDD = 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin
 1,2,3,4,6,7,8-HPCDF = 1,2,3,4,6,7,8-heptachlorodibenzo-p-furan
 1,2,3,4,7,8-HXCDD = 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin
 1,2,3,4,7,8-HXCDF = 1,2,3,4,7,8-hexachlorodibenzo-p-furan
 Lindane = gamma-benzene hexachloride
 mg/L = milligrams per liter
 Mod = modifier
 msl = mean sea level
 MS� = million structures per liter
 NTU = turbidity unit
 P = sample collected from well using a bladder pump
 PCB = polychlorinated biphenyl
 1,2,3,7,8-PCDD = 1,2,3,7,8-pentachlorodibenzo-p-dioxin
 1,2,3,7,8-PCDF = 1,2,3,7,8-pentachlorodibenzo-p-furan
 pCi/L = picocuries per liter
 pCi/mL = picocuries per milliliter
 PDWS = primary drinking water standard
 pH = pH unit
 PVC = polyvinyl chloride
 S = sample collected from well using a single-speed centrifugal downhole pump
 Sp. conductance = specific conductance
 SP = Spencer Testing Services, Inc.
 TCDD = tetrachlorodibenzo-p-dioxin
 TCDF = tetrachlorodibenzo-p-furan
 TM = TMA/Eberline
 TOC = top of casing
 V = sample collected from well using a variable-speed pump
 WA = Roy F. Weston, Inc.
 µg/L = micrograms per liter
 µS/cm = microsiemens per centimeter

Holding Times

Standard analytical methods include a limit, called holding time, on the maximum elapsed time between sample collection and extraction or analysis by the laboratory. In the data tables, a large dot (●) in the H (holding time) column indicates that holding time was exceeded. Analyses performed beyond holding time may not yield valid results.

The South Carolina Department of Health and Environmental Control allows only 15 minutes to elapse between sampling and analysis for pH. Thus, only field pH measurements can meet the holding time criterion; laboratory pH analyses will always exceed it.

Laboratory-initiated procedures for reducing the number of other analyses performed out of holding time include subcontracting analyses when difficulties with equipment, personnel, or work load would prevent timely analyses. SRS reduces the compensation to laboratories for analyses performed out of holding time.

Data Rounding

Constituent results in Table 3 that appear to equal the final PDWS but are not marked in the *D* (exceeded the final PDWS or screening level) column are below the final PDWS in the database. Values stored in the database contain more significant digits than the reported results. Apparent discrepancies in the tables are due to the rounding of reported results.

Data Qualification

The contract laboratories continually assess their own accuracy and precision according to U.S. Environmental Protection Agency (EPA) guidelines. They submit sample- or batch-specific quality assurance/quality control information either at the same time as analytical results or in a quarterly summary. Properly defined and used result modifiers (also referred to as qualifiers) can be a key component in assessing data useability. Result modifiers designed by Environmental Protection Department/Environmental Monitoring Section and provided to the primary laboratories are defined below. These modifiers appear in the data tables under the column "Mod." The lettered modifiers are based on EPA's STORET codes.

<u>Result modifier</u>	<u>Definition</u>
(Blank)	Data are not qualified. Number should be interpreted exactly as reported.
A	Value reported is the mean of two or more determinations.
J	Value is estimated because quantitation in the sample or in associated quality control samples did not meet specifications.
L	Value is off-scale high. The actual value is not known but is known to be greater than the value shown.
M	Presence of the analyte is verified but not quantified.

<u>Result modifier</u>	<u>Definition</u>
R	Result was rejected because performance requirements in the sample analysis or associated quality control analyses were not met.
T	Analyte was not detected; if present, it was below the criteria for detection.
V	Analyte was detected in an associated method blank.
Y	Result was obtained from an unpreserved or improperly preserved sample. Data may not be accurate.
1	Result may be an underestimation of the true value due to analytical bias.
2	Result may be an overestimation of the true value due to analytical bias.
3	The associated result may be of poor precision (high variability) due to analytical bias.
4	Result is associated with QA results indicating matrix interference.
6	The associated result is from a reanalysis performed out of holding time due to problems with an earlier analysis.

Table 1. Maximum Levels of Constituents Exceeding the Final Primary Drinking Water Standards**Aquifer Zone IIB₂ (Water Table)**

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Mod</u>
BGO 3D	Tritium	pCi/mL	3.9E+01	4.3E+01	
BGO 5D	Tritium	pCi/mL	2.3E+01	— ^a	
BGO 6D	Trichloroethylene	µg/L	20	26	
	Tritium	pCi/mL	6.9E+02	1.3E+03	
BGO 7D	Dichloromethane (Methylene chloride)	µg/L	—	7.7	
	Tetrachloroethylene	µg/L	9.8	—	
	Trichloroethylene	µg/L	149	41	
	Tritium	pCi/mL	3.6E+02	1.2E+02	
BGO 9D	Tritium	pCi/mL	NA ^b	2.0E+01	
BGO 10DR	Tritium	pCi/mL	3.4E+03	2.0E+03	
BGO 11D	Tritium	pCi/mL	8.2E+02	9.5E+02	
BGO 12D	Dichloromethane (Methylene chloride)	µg/L	—	8.5	
	Trichloroethylene	µg/L	75	83	
BGO 14DR	Trichloroethylene	µg/L	32	18	
BGO 15D	Tetrachloroethylene	µg/L	7.5	6.0	
	Trichloroethylene	µg/L	81	80	
	Tritium	pCi/mL	5.5E+02	5.3E+02	
BGO 16D	Trichloroethylene	µg/L	14	19	
	Tritium	pCi/mL	1.3E+03	1.3E+03	
BGO 20D	Tritium	pCi/mL	2.1E+01	—	
BGO 21D	Tritium	pCi/mL	3.5E+01	3.1E+01	
BGO 22DR	Tritium	pCi/mL	4.7E+01	5.0E+01	
BGO 23D	Tritium	pCi/mL	2.2E+01	2.2E+01	
BGO 27D	Tritium	pCi/mL	9.6E+01	1.1E+02	
BGO 28D	Chloroethene (Vinyl chloride)	µg/L	86	107	
	Dichloromethane (Methylene chloride)	µg/L	—	81	
	Gross alpha	pCi/L	—	1.3E+02	
	Trichloroethylene	µg/L	245	339	
	Tritium	pCi/mL	1.3E+05	9.9E+04	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Mod</u>
BGO 30D	Chloroethene (Vinyl chloride)	μg/L	4.8	-	
	1,1-Dichloroethylene	μg/L	24	12	
	Gross alpha	pCi/L	-	3.5E+01	
	Nonvolatile beta	pCi/L	-	5.3E+01	
	Trichloroethylene	μg/L	73	51	
	Tritium	pCi/mL	4.1E+04	2.2E+04	
BGO 31D	Tritium	pCi/mL	2.4E+01	2.2E+01	
BGO 32D	Tritium	pCi/mL	5.3E+02	1.5E+02	
BGO 34D	Tritium	pCi/mL	2.7E+01	2.3E+01	
BGO 35D	Tritium	pCi/mL	7.2E+01	6.8E+01	
BGO 36D	Tritium	pCi/mL	2.6E+01	2.6E+01	
BGO 37D	Tritium	pCi/mL	3.0E+01	2.8E+01	
BGO 38D	Tritium	pCi/mL	2.8E+01	2.8E+01	
BGO 39D	Tritium	pCi/mL	3.0E+01	2.8E+01	
BGO 40D	Lead	μg/L	-	60	
BGO 44D	Tritium	pCi/mL	3.0E+02	3.7E+02	
BGO 45D	Tritium	pCi/mL	3.4E+02	3.3E+02	
BGO 46D	Chloroethene (Vinyl chloride)	μg/L	4.2	7.0	
	Tetrachloroethylene	μg/L	17	20	
	Trichloroethylene	μg/L	66	68	
	Tritium	pCi/mL	4.4E+04	3.9E+04	
BGO 47D	Trichloroethylene	μg/L	8.1	7.6	
	Tritium	pCi/mL	1.3E+03	3.3E+02	
BGO 48D	Dichloromethane (Methylene chloride)	μg/L	-	13	
	Gross alpha	pCi/L	1.8E+01	-	
	Tetrachloroethylene	μg/L	40	21	
	Trichloroethylene	μg/L	126	89	
	Tritium	pCi/mL	7.2E+04	4.1E+04	
BGO 49D	Tritium	pCi/mL	2.2E+01	2.1E+01	
BGO 50D	Trichloroethylene	μg/L	26	24	J2
	Tritium	pCi/mL	8.1E+03	6.3E+03	
BGX 1D	Tritium	pCi/mL	3.8E+02	3.8E+02	
BGX 10D	Lead	μg/L	-	108	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Unit</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Mod</u>
BGO 5C	Tritium	pCi/mL	-	3.0E+01	
BGO 6B	Tritium	pCi/mL	-	3.4E+01	
BGO 6C	Tritium	pCi/mL	9.3E+02	9.5E+02	
BGO 10B	Tritium	pCi/mL	4.0E+01	7.9E+01	
BGO 10C	Tritium	pCi/mL	-	1.6E+02	
BGO 12CR	Trichloroethylene	µg/L	60	24	
BGO 13DR	Tritium	pCi/mL	4.0E+01	3.1E+01	
BGO 14CR	Trichloroethylene	µg/L	72	48	
	Tritium	pCi/mL	7.5E+01	3.5E+01	
BGO 16B	Tritium	pCi/mL	-	4.2E+01	
BGO 27C	Trichloroethylene	µg/L	25	25	
	Tritium	pCi/mL	6.4E+01	5.8E+01	
BGO 29C	Tritium	pCi/mL	9.4E+01	9.6E+01	
BGO 30C	Trichloroethylene	µg/L	13	11	
	Tritium	pCi/mL	3.7E+02	3.9E+02	
BGO 31C	Dichloromethane (Methylene chloride)	µg/L	-	5.4	
	Tritium	pCi/mL	2.3E+03	2.5E+03	
BGO 33C	Dichloromethane (Methylene chloride)	µg/L	-	5.1	
	Tetrachloroethylene	µg/L	-	5.9	
	Trichloroethylene	µg/L	23	27	
	Tritium	pCi/mL	6.8E+03	7.2E+03	
BGO 42C	Trichloroethylene	µg/L	80	76	
BGO 44B	Tritium	pCi/mL	6.0E+02	8.4E+02	
BGO 44C	Trichloroethylene	µg/L	9.0	-	
	Tritium	pCi/mL	4.9E+02	5.5E+02	
BGO 45C	Tritium	pCi/mL	2.1E+02	5.6E+02	
BGO 46B	Tritium	pCi/mL	7.7E+01	5.9E+01	
BGO 46C	Trichloroethylene	µg/L	22	24	
	Tritium	pCi/mL	7.2E+01	7.8E+01	
BGO 47C	Tritium	pCi/mL	3.3E+02	1.0E+03	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Unit</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Mod</u>
BGO 48C	Tritium	pCi/mL	2.6E+03	2.7E+03	
BGO 49C	Tritium	pCi/mL	3.8E+01	3.6E+01	
BGO 50C	Trichloroethylene	µg/L	14	15	
	Tritium	pCi/mL	6.6E+01	6.9E+01	
BGX 1C	Tritium	pCi/mL	8.8E+02	8.4E+02	
BGX 2D	Trichloroethylene	µg/L	11	12	
	Tritium	pCi/mL	8.7E+01	8.8E+01	
BGX 3D	Tritium	pCi/mL	1.4E+03	1.1E+03	
BGX 5D	Tritium	pCi/mL	7.6E+01	5.5E+01	
BGX 8DR	Tritium	pCi/mL	9.3E+02	8.9E+02	
BGX 12C	Dichloromethane (Methylene chloride)	µg/L	-	14	
HMD 1D	Tritium	pCi/mL	3.3E+01	-	
HMD 4D	Lead	µg/L	58	-	

Aquifer Unit IIA (Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Mod</u>
BGO 9AA	Nonvolatile beta	pCi/L	7.1E+01	6.4E+01	
BGO 12AR	Trichloroethylene	µg/L	8.6	5.5	

^a - = analyzed but not above final PDWS.

^b NA = not analyzed.

Table 2. Maximum Levels of Constituents Exceeding Half the Final Primary Drinking Water Standards or Other Flag 1 or Flag 2 Criteria

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGO 1D	Aluminum	µg/L	208		2
	Manganese	µg/L	34		1
BGO 2D	Aluminum	µg/L	270		2
	Tritium	pCi/mL	1.9E + 01		1
BGO 3D	Aluminum	µg/L	552		2
	Iron	µg/L	197		1
BGO 5D	Aluminum	µg/L	135		2
	Manganese	µg/L	31		1
	Tritium	pCi/mL	1.2E + 01		1
BGO 6D	Aluminum	µg/L	368		2
	1,1-Dichloroethylene	µg/L	4.9		1
	Iron	µg/L	151		1
	Lead	µg/L	10		1
	Tetrachloroethylene	µg/L	2.6		1
	Total organic halogens	µg/L	37		1
BGO 7D	Total organic halogens	µg/L	26		1
BGO 8D	Aluminum	µg/L	33		1
	Tritium	pCi/mL	1.3E + 01		1
BGO 9D	Aluminum	µg/L	48		1
	Tritium	pCi/mL	2.0E + 01		1
BGO 10DR	Aluminum	µg/L	170		2
	Iron	µg/L	271	J2	1
	Lead	µg/L	13		1
	Manganese	µg/L	33		1
BGO 11D	Aluminum	µg/L	27		1
BGO 12D	Aluminum	µg/L	66		2
	Total organic halogens	µg/L	62		2
	Tritium	pCi/mL	1.6E + 01		1
BGO 14DR	Aluminum	µg/L	33		1
	Tritium	pCi/mL	1.2E + 01		1
BGO 15D	Total organic halogens	µg/L	62		2
BGO 16D	Aluminum	µg/L	194		2
	Iron	µg/L	198		1
	pH	pH	9.3	J	1
	Tin	µg/L	30		2

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGO 17DR	Aluminum	µg/L	84		2
	Tritium	pCi/mL	1.2E+01		1
BGO 18D	Aluminum	µg/L	40		1
	Tritium	pCi/mL	1.6E+01		1
BGO 20D	Iron	µg/L	188		1
	Lead	µg/L	14		1
	Manganese	µg/L	47		1
	Tritium	pCi/mL	1.8E+01		1
BGO 21D	Aluminum	µg/L	46		1
	Iron	µg/L	174		1
	Manganese	µg/L	34		1
	Tin	µg/L	14		1
BGO 22DR	Aluminum	µg/L	188		2
	Gross alpha	pCi/L	1.2E+01		1
	Lead	µg/L	8.6		1
BGO 26D	Aluminum	µg/L	118		2
BGO 27D	Aluminum	µg/L	815		2
	Iron	µg/L	373		2
	Manganese	µg/L	33		1
BGO 28D	Aluminum	µg/L	431		2
	1,1-Dichloroethane	µg/L	27		2
	Iron	µg/L	563	J2	2
	Manganese	µg/L	57		2
	Nonvolatile beta	pCi/L	3.0E+01		1
	Total organic halogens	µg/L	662		2
BGO 29D	Aluminum	µg/L	375		2
	Iron	µg/L	281	J2	1
	Manganese	µg/L	58		2
BGO 30D	Aluminum	µg/L	448		2
	1,1-Dichloroethane	µg/L	55		2
	Dichloromethane (Methylene chloride)	µg/L	4.8		1
	Tetrachloroethylene	µg/L	3.6		1
	Total organic halogens	µg/L	366		2
BGO 31D	Aluminum	µg/L	64		2
	Total organic halogens	µg/L	28		1
BGO 32D	Aluminum	µg/L	483		2
	Iron	µg/L	207		1
	Nitrate-nitrite as nitrogen	µg/L	5,500		1

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGO 33D	Aluminum	µg/L	127		2
	Tritium	pCi/mL	1.8E+01		1
BGO 34D	Aluminum	µg/L	775		2
BGO 35D	Aluminum	µg/L	170		2
BGO 36D	Aluminum	µg/L	306		2
	Lead	µg/L	13		1
BGO 37D	Aluminum	µg/L	58		2
	Lead	µg/L	8.3		1
BGO 38D	Aluminum	µg/L	256		2
	Iron	µg/L	221		1
BGO 39D	Aluminum	µg/L	1,090		2
	Iron	µg/L	455		2
BGO 40D	Aluminum	µg/L	814		2
	Iron	µg/L	664	J2	2
	Manganese	µg/L	107		2
	Nonvolatile beta	pCi/L	3.2E+01		1
	Specific conductance	µS/cm	410		1
	Tin	µg/L	109		2
	Trichloroethylene	µg/L	2.5		1
BGO 44D	Aluminum	µg/L	30		1
BGO 45D	Aluminum	µg/L	28		1
	Dichloromethane (Methylene chloride)	µg/L	4.1		1
BGO 46D	Aluminum	µg/L	123		2
	1,1-Dichloroethane	µg/L	52		2
	Dichloromethane (Methylene chloride)	µg/L	3.0		1
	Sulfate	µg/L	3.5E+06		2
	Total organic halogens	µg/L	346	J	2
BGO 47D	Aluminum	µg/L	32		1
	Dichloromethane (Methylene chloride)	µg/L	4.0		1
BGO 48D	Aluminum	µg/L	166		2
	1,1-Dichloroethane	µg/L	5.0		1
	Gross alpha	pCi/L	9.8E+00		1
	Total organic halogens	µg/L	91	J	2
BGO 49D	Aluminum	µg/L	63		2

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGO 50D	Aluminum	µg/L	75		2
	1,1-Dichloroethane	µg/L	13	J2	2
	Total organic halogens	µg/L	348	J	2
BGX 1D	Aluminum	µg/L	312		2
	Lead	µg/L	9.0		1
	Manganese	µg/L	71		2
BGX 9D	Aluminum	µg/L	326		2
	Iron	µg/L	254	J2	1
	Tritium	pCi/mL	1.0E + 01		1
BGX 10D	Aluminum	µg/L	1,100		2
	Iron	µg/L	1,530		2
	Manganese	µg/L	159		2
BGX 11D	Aluminum	µg/L	1,290		2
	Iron	µg/L	747		2
	Iron	µg/L	294		1
	Tritium	pCi/mL	1.8E + 01		1
BGX 12D	Aluminum	µg/L	125		2
	Iron	µg/L	230		1
	Tritium	pCi/mL	1.7E + 01		1

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGO 5C	Aluminum	µg/L	461		2
BGO 6B	pH	pH	11	J	2
	Specific conductance	µS/cm	294		1
	Tin	µg/L	77		2
BGO 6C	Aluminum	µg/L	32		1
BGO 8C	Aluminum	µg/L	40		1
BGO 10B	Aluminum	µg/L	102		2
	pH	pH	9.0	J	1
	Tin	µg/L	30		2
BGO 10C	Aluminum	µg/L	335		2
	pH	pH	10	J	2
	Tin	µg/L	27		2

Aquifer Zone IIB, (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGO 12CR	Aluminum	µg/L	363	J	2
	pH	pH	10		2
	Total organic halogens	µg/L	29		1
BGO 13DR	Aluminum	µg/L	42		1
	Iron	µg/L	258		1
	Manganese	µg/L	120		2
BGO 14CR	Aluminum	µg/L	418	J	2
	pH	pH	8.1		1
	Tin	µg/L	24		2
	Total organic halogens	µg/L	26		1
BGO 16B	Aluminum	µg/L	203	J	2
	Antimony	µg/L	3.3		1
	pH	pH	8.9		1
	Tin	µg/L	35		2
BGO 29C	Aluminum	µg/L	125		2
BGO 30C	Aluminum	µg/L	908		2
	Iron	µg/L	452		2
BGO 31C	Aluminum	µg/L	86		2
	Trichloroethylene	µg/L	2.8		1
BGO 33C	Aluminum	µg/L	72		2
	Manganese	µg/L	29		1
	Mercury	µg/L	1.7		1
	Total organic halogens	µg/L	137		2
BGO 35C	Aluminum	µg/L	99		2
BGO 42C	Aluminum	µg/L	54	J2	2
	Iron	µg/L	230		1
	Lead	µg/L	8.7		1
	Total organic halogens	µg/L	37		1
BGO 43CR	Aluminum	µg/L	443	J2	2
	Gross alpha	pCi/L	8.0E+00		1
	Iron	µg/L	250		1
	Lead	µg/L	10		1
	pH	pH	9.3		1
BGO 43D	Aluminum	µg/L	36		1
BGO 44B	Aluminum	µg/L	2,500	J	2
	Iron	µg/L	389		2
	Manganese	µg/L	252		2
	pH	pH	11		2
	Specific conductance	µS/cm	458		1

Aquifer Zone IIB, (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGO 44C	Aluminum	µg/L	1,520		2
	Iron	µg/L	686		2
	Manganese	µg/L	131		2
	pH	pH	9.0	J	1
	Tin	µg/L	12		1
	Trichloroethylene	µg/L	2.5		1
BGO 45B	Aluminum	µg/L	170		2
	Dichloromethane (Methylene chloride)	µg/L	3.5		1
	pH	pH	10	J	2
BGO 45C	Aluminum	µg/L	57		2
	Dichloromethane (Methylene chloride)	µg/L	4.1		1
	Lead	µg/L	10		1
BGO 46B	Dichloromethane (Methylene chloride)	µg/L	3.9		1
BGO 46C	Aluminum	µg/L	51		2
	Dichloromethane (Methylene chloride)	µg/L	2.9		1
	Iron	µg/L	168		1
BGO 47C	Dichloromethane (Methylene chloride)	µg/L	3.6		1
	Trichloroethylene	µg/L	3.0		1
BGO 48C	Dichloromethane (Methylene chloride)	µg/L	4.1	J2	1
	Trichloroethylene	µg/L	3.6	J2	1
BGO 49C	Aluminum	µg/L	85		2
	pH	pH	8.2	J	1
BGO 50C	Aluminum	µg/L	49		1
BGX 1C	Aluminum	µg/L	478		2
	Lead	µg/L	7.9		1
	pH	pH	12	J	2
	Specific conductance	µS/cm	950		2
BGX 2B	Aluminum	µg/L	46		1
BGX 2D	Aluminum	µg/L	49		1
BGX 3D	Trichloroethylene	µg/L	3.6		1
BGX 4C	Trichloroethylene	µg/L	2.5		1
BGX 4D	Tritium	pCi/mL	1.0E+01		1

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGX 5D	Aluminum	μg/L	69		2
	Manganese	μg/L	368		2
	Trichlorofluoromethane	μg/L	6.7		1
BGX 6D	Manganese	μg/L	34		1
BGX 8DR	Aluminum	μg/L	77		2
	Manganese	μg/L	33		1
BGX 12C	Aluminum	μg/L	109		2
	Radium-228	pCi/L	3.2E + 01	J2	2
HMD 1D	Aluminum	μg/L	331		2
	Iron	μg/L	365		2
HMD 2D	Aluminum	μg/L	38		1
HMD 3D	Aluminum	μg/L	116		2
	Trichloroethylene	μg/L	2.7		1
	Trichlorofluoromethane	μg/L	6.9		1
HMD 4D	Aluminum	μg/L	143		2
	Iron	μg/L	191		1
	Manganese	μg/L	36		1

Aquifer Unit IIA (Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGO 6A	Specific conductance	μS/cm	288		1
	Tin	μg/L	11		1
BGO 8AR	Aluminum	μg/L	25		1
BGO 9AA	Aluminum	μg/L	936		2
	Gross alpha	pCi/L	1.5E + 01		1
	pH	pH	13	J	2
	Specific conductance	μS/cm	4,700		2
	Tin	μg/L	262		2
BGO 10AA	Aluminum	μg/L	29		1
	Tin	μg/L	15		1
BGO 10AR	Manganese	μg/L	39		1
	pH	pH	8.2	J	1
	Tin	μg/L	11		1

Aquifer Unit IIA (Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGO 12AR	Aluminum	$\mu\text{g/L}$	459	J	2
	pH	pH	11		2
	Tin	$\mu\text{g/L}$	14		1
BGO 14AR	Aluminum	$\mu\text{g/L}$	666	J	2
	pH	pH	11		2
	Specific conductance	$\mu\text{S/cm}$	415		1
	Tin	$\mu\text{g/L}$	46		2
	Trichloroethylene	$\mu\text{g/L}$	4.7		1
BGO 16AR	Aluminum	$\mu\text{g/L}$	181	J	2
	pH	pH	8.9		1
BGO 18A	Manganese	$\mu\text{g/L}$	46		1
BGO 29A	Aluminum	$\mu\text{g/L}$	71	J	2
	pH	pH	10		2
BGO 41A	Aluminum	$\mu\text{g/L}$	109	J	2
	pH	pH	12		2
	Tin	$\mu\text{g/L}$	24		2
BGO 43A	Aluminum	$\mu\text{g/L}$	675	J	2
	pH	pH	12		2
	Specific conductance	$\mu\text{S/cm}$	1,800		2
	Tin	$\mu\text{g/L}$	23		2
BGO 43AA	Aluminum	$\mu\text{g/L}$	895	J	2
	pH	pH	11		2
	Tin	$\mu\text{g/L}$	13		1
BGO 44A	Aluminum	$\mu\text{g/L}$	55		2
BGO 44AA	Aluminum	$\mu\text{g/L}$	231	J	2
	pH	pH	9.7		1
	Tin	$\mu\text{g/L}$	12		1
BGO 45A	Dichloromethane (Methylene chloride)	$\mu\text{g/L}$	3.8		1
BGO 47A	Aluminum	$\mu\text{g/L}$	58		2
	Dichloromethane (Methylene chloride)	$\mu\text{g/L}$	3.9		1
	Manganese	$\mu\text{g/L}$	67		2
BGO 49A	Aluminum	$\mu\text{g/L}$	510	J	2
	pH	pH	9.6		1

Aquifer Unit IIA (Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>2Q93</u>	<u>Mod</u>	<u>Flag</u>
BGO 50A	Aluminum	$\mu\text{g/L}$	650	J	2
	pH	pH	11		2
	Specific conductance	$\mu\text{S/cm}$	870		2
	Tin	$\mu\text{g/L}$	16		1
BGX 4A	Aluminum	$\mu\text{g/L}$	35		1
	Specific conductance	$\mu\text{S/cm}$	282		1

Note: Constituents exceeding half the PDWS appear *italicized*. Results in Table 2 do not include field data.

Table 3. Groundwater Monitoring Results for Individual Wells**WELL BGO 1D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N73737.9 E58779.3	33.284765 °N 81.655257 °W	245.0-225.0 ft msl	295.1 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/12/93
 Depth to water: 53.14 ft (16.20 m) below TOC
 Water elevation: 241.96 ft (73.75 m) msl
 Sp. conductance: 40 μ S/cm
 Water evacuated before sampling: 9 gal
 The well went dry during purging.

Time: 9:10
 pH: 5.3
 Alkalinity: 1 mg/L
 Water temperature: 19.5 °C
 Volumes purged: 0.8 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.4	J	pH	0	GE
		Specific conductance	35		μ S/cm	0	GE
		Turbidity	56		NTU	0	GE
		Acetophenone	< 10	J1	μ g/L	0	GE
		Aluminum	208		μ g/L	2	GE
		Antimony	< 2.0		μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Barium	14		μ g/L	0	GE
		Benzene	< 1.0		μ g/L	0	GE
		Bromodichloromethane	< 1.0		μ g/L	0	GE
		Bromoform	< 1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		μ g/L	0	GE
		Cadmium	< 2.0		μ g/L	0	GE
		Calcium	123	J2	μ g/L	0	GE
		Carbon tetrachloride	< 1.0		μ g/L	0	GE
		Chloride	1,510		μ g/L	0	GE
		Chlorobenzene	< 1.0		μ g/L	0	GE
		Chloroethane	< 1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		μ g/L	0	GE
		Chloroform	< 1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		μ g/L	0	GE
		Chromium	< 4.0		μ g/L	0	GE
		Copper	12		μ g/L	0	GE
		Cyanide	< 5.0		μ g/L	0	GE
		Dibromochloromethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethane	< 1.0		μ g/L	0	GE
		1,2-Dichloroethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethylene	< 1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		μ g/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	< 0.30	J6	μ g/L	0	GE
		1,2-Dichloropropane	< 1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
		Endrin	< 0.0060		μ g/L	0	GE
		Ethylbenzene	< 1.0		μ g/L	0	GE
		Fluoride	< 100	V	μ g/L	0	GE
		Iron	131		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 1D collected on 05/12/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	5.9		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	156		µg/L	0	GE
		Manganese	34		µg/L	1	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,840		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	5,580	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	6,610		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	26,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090	J6	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	138		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	2.5E+00 ± 1.1E+00		pCi/L	0	GE
		Nonvolatile beta	2.9E+00 ± 1.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	1.0E+01 ± 5.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 2D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N74552.9	33.286617 °N	238.9-218.9 ft msl	296.9 ft msl	4" PVC	S	Water table (IIB ₂)
E58809.7	81.656760 °W					

FIELD MEASUREMENTS

Sample date: 05/12/93
 Depth to water: 56.17 ft (17.12 m) below TOC
 Water elevation: 240.73 ft (73.38 m) msl
 Sp. conductance: 45 μ S/cm
 Water evacuated before sampling: 10 gal
 The well went dry during purging.

Time: 11:17
 pH: 4.6
 Alkalinity: 0 mg/L
 Water temperature: 20.3 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.9	J	pH	0	GE
		Specific conductance	38		μ S/cm	0	GE
		Turbidity	75		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	270		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	22		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	1,270	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,860		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	6.7		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	<0.30	J6	μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100	V	μ g/L	0	GE
		Fluoride	<100	V	μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 2D collected on 05/12/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	96		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,030		µg/L	0	GE
		Manganese	6.5		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,500		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	6,620	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,380		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	28,000	V	µg/L	0	GE
		Total dissolved solids	35,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	60		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090	J6	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	11		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	6.2E+00 ± 1.6E+00		pCi/L	0	GE
		Nonvolatile beta	5.6E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	4.8E+00 ± 1.2E+00		pCi/L	0	GE
		Tritium	1.9E+01 ± 7.0E-01		pCi/mL	1	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 3D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75351.3	33.288382 °N	247.6-227.6 ft msl	292.7 ft msl	4" PVC	S	Water table (IIB ₂)
E58809.2	81.658312 °W					

FIELD MEASUREMENTS

Sample date: 05/13/93
 Depth to water: 54.98 ft (16.76 m) below TOC
 Water elevation: 237.72 ft (72.46 m) msl
 Specific conductance: 57 $\mu\text{S}/\text{cm}$
 Water evacuated before sampling: 5 gal
 The well went dry during purging.

Time: 8:53
 pH: 4.0
 Alkalinity: 0 mg/L
 Water temperature: 19.6 °C
 Volumes purged: 0.8 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.2	J	pH	0	GE
		Specific conductance	50		$\mu\text{S}/\text{cm}$	0	GE
		Turbidity	19		NTU	0	GE
		Turbidity	19		NTU	0	GE
		Acetophenone	<10	J1	$\mu\text{g}/\text{L}$	0	GE
		Aluminum	552		$\mu\text{g}/\text{L}$	2	GE
		Antimony	<2.0		$\mu\text{g}/\text{L}$	0	GE
		Arsenic	<2.0		$\mu\text{g}/\text{L}$	0	GE
		Barium	8.0		$\mu\text{g}/\text{L}$	0	GE
		Benzene	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Bromodichloromethane	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Bromoform	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Bromomethane (Methyl bromide)	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Cadmium	<2.0		$\mu\text{g}/\text{L}$	0	GE
		Calcium	79	J2	$\mu\text{g}/\text{L}$	0	GE
		Carbon tetrachloride	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Chloride	5,780		$\mu\text{g}/\text{L}$	0	GE
		Chlorobenzene	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Chloroethane	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Chloroethene (Vinyl chloride)	<1.0		$\mu\text{g}/\text{L}$	0	GE
		2-Chloroethyl vinyl ether	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Chloroform	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Chloromethane (Methyl chloride)	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Chromium	<4.0		$\mu\text{g}/\text{L}$	0	GE
		Copper	<4.0		$\mu\text{g}/\text{L}$	0	GE
		Cyanide	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Dibromochloromethane	<1.0		$\mu\text{g}/\text{L}$	0	GE
		1,1-Dichloroethane	<1.0		$\mu\text{g}/\text{L}$	0	GE
		1,2-Dichloroethane	<1.0		$\mu\text{g}/\text{L}$	0	GE
		1,1-Dichloroethylene	<1.0		$\mu\text{g}/\text{L}$	0	GE
		trans-1,2-Dichloroethylene	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Dichloromethane (Methylene chloride)	<1.0		$\mu\text{g}/\text{L}$	0	GE
•		2,4-Dichlorophenoxyacetic acid	<0.30	J6	$\mu\text{g}/\text{L}$	0	GE
		1,2-Dichloropropane	<1.0		$\mu\text{g}/\text{L}$	0	GE
		cis-1,3-Dichloropropene	<1.0		$\mu\text{g}/\text{L}$	0	GE
		trans-1,3-Dichloropropene	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Endrin	<0.0060		$\mu\text{g}/\text{L}$	0	GE
		Ethylbenzene	<1.0		$\mu\text{g}/\text{L}$	0	GE
		Fluoride	<100		$\mu\text{g}/\text{L}$	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 3D collected on 05/13/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	197		µg/L	1	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	437		µg/L	0	GE
		Manganese	14		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,260		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	7,540		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	6,050		µg/L	0	GE
		Sulfate	1,700		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	28,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	14		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090	J6	µg/L	0	GE
		1,1,1-Trichloroethane	1.8		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	5.1		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	2.6E+00 ± 8.7E-01		pCi/L	0	GE
		Nonvolatile beta	2.8E+00 ± 8.4E-01		pCi/L	0	GE
		Radium, total alpha-emitting	2.2E+00 ± 7.0E-01		pCi/L	0	GE
■		Tritium	4.3E+01 ± 1.0E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 5C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76476.9	33.290848 °N	193.2-183.2 ft msl	296.1 ft msl	4" PVC	S	McBean (IIB ₁)
E58794.5	81.660537 °W					

FIELD MEASUREMENTS

Sample date: 05/12/93
 Depth to water: 78.03 ft (23.78 m) below TOC
 Water elevation: 218.07 ft (66.47 m) msl
 Sp. conductance: 66 μ S/cm
 Water evacuated before sampling: 19 gal
 The well went dry during purging.

Time: 9:56
 pH: 6.7
 Alkalinity: 17 mg/L
 Water temperature: 20.7 °C
 Volumes purged: 0.8 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.4	J	pH	0	GE
		Specific conductance	55		μ S/cm	0	GE
		Turbidity	148		NTU	0	GE
•		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	461		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	11		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	8,150	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,730		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	6.6		μ g/L	0	GE
		Copper	5.1		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	<0.30	J6	μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 5C collected on 05/12/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Fluoride	<100	V	µg/L	0	GE
		Iron	45		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	389		µg/L	0	GE
		Manganese	19		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
•		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,060		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	13,500	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,030		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	55,000	V	µg/L	0	GE
		Total organic carbon	1,020		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	210		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
•		2,4,5-TP (Silvex)	<0.090	J6	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	31		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	5.3E+00 ± 1.8E+00		pCi/L	0	GE
		Nonvolatile beta	4.7E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.5E+00 ± 9.0E-01		pCi/L	0	GE
■		Tritium	3.0E+01 ± 9.0E-01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 5D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76477.5	33.290833 °N	239.3-219.3 ft msl	296.3 ft msl	4" PVC	S	Water table (IIB ₂)
E58784.8	81.660564 °W					

FIELD MEASUREMENTS

Sample date: 05/12/93
 Depth to water: 64.76 ft (19.74 m) below TOC
 Water elevation: 231.54 ft (70.57 m) msl
 Sp. conductance: 51 μ S/cm
 Water evacuated before sampling: 5 gal
 The well went dry during purging.

Time: 10:11
 pH: 4.9
 Alkalinity: 0 mg/L
 Water temperature: 22.7 °C
 Volumes purged: 0.6 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.8	J	pH	0	GE
		Specific conductance	40		μ S/cm	0	GE
		Turbidity	16		NTU	0	GE
		Acetophenone	< 10	J1	μ g/L	0	GE
		Aluminum	135		μ g/L	2	GE
		Antimony	< 2.0		μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Barium	50		μ g/L	0	GE
		Benzene	< 1.0		μ g/L	0	GE
		Bromodichloromethane	< 1.0		μ g/L	0	GE
		Bromoform	< 1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		μ g/L	0	GE
		Cadmium	< 2.0		μ g/L	0	GE
		Calcium	750	J2	μ g/L	0	GE
		Carbon tetrachloride	< 1.0		μ g/L	0	GE
		Chloride	3,820		μ g/L	0	GE
		Chlorobenzene	< 1.0		μ g/L	0	GE
		Chloroethane	< 1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		μ g/L	0	GE
		Chloroform	< 1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		μ g/L	0	GE
		Chromium	< 4.0		μ g/L	0	GE
		Copper	11		μ g/L	0	GE
		Cyanide	< 5.0		μ g/L	0	GE
		Dibromochloromethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethane	< 1.0		μ g/L	0	GE
		1,2-Dichloroethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethylene	< 1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		μ g/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	< 0.30	J6	μ g/L	0	GE
		1,2-Dichloropropane	< 1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
		Endrin	< 0.0060		μ g/L	0	GE
		Ethylbenzene	< 1.0		μ g/L	0	GE
		Fluoride	< 100	V	μ g/L	0	GE
		Iron	119		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

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WELL BGO 5D collected on 05/12/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	923		µg/L	0	GE
		Manganese	31		µg/L	1	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,240		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,190	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,340		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	28,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
•		2,4,5-TP (Silvex)	<0.090	J6	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	8.0		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	5.2E+00 ± 1.5E+00		pCi/L	0	GE
		Nonvolatile beta	4.6E+00 ± 1.2E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.5E+00 ± 9.0E-01		pCi/L	0	GE
		Tritium	1.2E+01 ± 6.0E-01		pCi/mL	1	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 6A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76487.2 E58316.8	33.290091 °N 81.661815 °W	117.5-107.5 ft msl	285.6 ft msl	4" PVC	S	U. Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 04/26/93
 Depth to water: 125.66 ft (38.30 m) below TOC
 Water elevation: 159.94 ft (48.75 m) msl
 Sp. conductance: 283 μ S/cm
 Water evacuated before sampling: 80 gal

Time: 13:11
 pH: 7.8
 Alkalinity: 86 mg/L
 Water temperature: 20.7 °C
 Volumes purged: 2.3 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.6	J	pH	0	GE
		Specific conductance	288		μ S/cm	1	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	<40		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	2.0		μ g/L	0	GE
		Barium	101		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<4.0		μ g/L	0	GE
		Calcium	97,800		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,280		μ g/L	0	GE
		Chloride	2,300		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<8.0		μ g/L	0	GE
		Copper	<8.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 6A collected on 04/26/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Iron	81		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,720		µg/L	0	GE
		Manganese	<4.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<8.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	2,010		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	45,600		µg/L	0	GE
		Silver	<4.0	J2	µg/L	0	GE
		Sodium	2,900		µg/L	0	GE
		Sulfate	8,510		µg/L	0	GE
		Sulfate	8,450		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	11		µg/L	1	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	193,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	22		µg/L	0	GE
		Total phosphates (as P)	69		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<16		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	<4.0		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 6B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76553.2	33.290286 °N	149.7-139.7 ft msl	286.8 ft msl	4" PVC	S	Barnwell (IIB ₁)
E58346.5	81.661865 °W					

FIELD MEASUREMENTS

Sample date: 04/27/93

Depth to water: 66.61 ft (20.30 m) below TOC

Water elevation: 220.19 ft (67.11 m) msl

Sp. conductance: 375 μ S/cm

Water evacuated before sampling: 40 gal

The well went dry during purging.

Time: 9:45

pH: 11.4

Alkalinity: 95 mg/L

Water temperature: 18.7 °C

Volumes purged: 0.8 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	11	J	pH	2	GE
		Specific conductance	294		μ S/cm	1	GE
•		Turbidity	1.1	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	17		μ g/L	0	GE
		Barium	17		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	6,770	J2	μ g/L	0	GE
		Calcium	6,760	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,390		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 6B collected on 04/27/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	18		µg/L	0	GE
		Iron	18		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	434		µg/L	0	GE
		Magnesium	434		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	360		µg/L	0	GE
		Phenols	7.5		µg/L	0	GE
		Potassium	34,600		µg/L	0	GE
		Potassium	34,600		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	12,400	J2	µg/L	0	GE
		Silica	12,400	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	30,000		µg/L	0	GE
		Sodium	29,900		µg/L	0	GE
		Sulfate	11,700		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	77		µg/L	2	GE
		Tin	75		µg/L	2	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	163,000	V	µg/L	0	GE
		Total dissolved solids	159,000	V	µg/L	0	GE
		Total organic carbon	1,700		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	2.6E+00 ± 1.5E+00		pCi/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 6B collected on 04/27/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Nonvolatile beta	8.5E+00 ± 1.7E+00		pCi/L	0	GE
		Nonvolatile beta	7.8E+00 ± 1.7E+00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Total activity	3.8E+04 ± 1.7E+03		pCi/L	0	EM
■		Tritium	3.4E+01 ± 9.0E-01		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 6C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76487.1	33.290075 °N	168.0-158.0 ft msl	285.6 ft msl	4" PVC	S	McBean (IIB ₁)
E58307.0	81.661841 °W					

FIELD MEASUREMENTS

Sample date: 04/26/93

Time: 12:41

Depth to water: 63.57 ft (19.38 m) below TOC

pH: 7.4

Water elevation: 222.03 ft (67.68 m) msl

Alkalinity: 23 mg/L

Sp. conductance: 138 µS/cm

Water temperature: 20.2 °C

No water evacuated before sampling.

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	7.5	J	pH	0	GE
		Specific conductance	142		µS/cm	0	GE
		Turbidity	< 0.10		NTU	0	GE
		Acetophenone	< 10		µg/L	0	GE
		Aluminum	32		µg/L	1	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	11		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	23,500	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	1,940		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 6C collected on 04/26/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.2		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	< 4.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	527		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	870		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	< 500		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	12,000	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	2,200		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	3.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	86,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	130		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	4.0		µg/L	0	GE
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	2.7E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Total activity	1.0E+06 ± 7.2E+03		pCi/L	0	EM
■		Tritium	9.5E+02 ± 4.6E+00		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 6D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76487.3	33.290059 °N	237.2-217.2 ft msl	285.5 ft msl	4" PVC	S	Water table (IIB ₂)
E58297.1	81.661867 °W					

FIELD MEASUREMENTS

Sample date: 04/27/93

Time: 9:17

Depth to water: 53.39 ft (16.27 m) below TOC

pH: 6.7

Water elevation: 232.11 ft (70.75 m) msl

Alkalinity: 46 mg/L

Sp. conductance: 133 μ S/cm

Water temperature: 18.2 °C

Water evacuated before sampling: 9 gal

Volumes purged: 0.9 well volumes

The well went dry during purging.

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.8	J	pH	0	GE
		Specific conductance	120		μ S/cm	0	GE
•		Turbidity	23	J	NTU	0	GE
		Acetophenone	<1.0		μ g/L	0	GE
		Aluminum	368		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	28		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	21,300	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,630		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	4.9		μ g/L	1	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.1		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	151		μ g/L	1	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 6D collected on 04/27/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	10		µg/L	1	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,380		µg/L	0	GE
		Manganese	22		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	5.2		µg/L	0	GE
		Nitrate-nitrite as nitrogen	620		µg/L	0	GE
		Phenols	5.2		µg/L	0	GE
		Potassium	628		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	11,400	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,840		µg/L	0	GE
		Sulfate	2,290		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	2.6		µg/L	1	GE
		Tin	2.9		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	84,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	37		µg/L	1	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	2.2		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	26		µg/L	2	GE
		Trichlorofluoromethane	3.4		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	61		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	2.3E+00 ± 1.4E+00		pCi/L	0	GE
		Nonvolatile beta	2.1E+00 ± 1.1E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.3E+00 ± 5.0E-01		pCi/L	0	GE
		Total activity	1.3E+06 ± 8.1E+03		pCi/L	0	EM
■		Tritium	1.3E+03 ± 5.5E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 7D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76494.5	33.289455 °N	240.2-220.2 ft msl	287 ft msl	4" PVC	S	Water table (IIB ₂)
E57917.2	81.662882 °W					

FIELD MEASUREMENTS

Sample date: 04/26/93
 Depth to water: 53.84 ft (16.41 m) below TOC
 Water elevation: 233.16 ft (71.07 m) msl
 Sp. conductance: 30 $\mu\text{S}/\text{cm}$
 Water evacuated before sampling: 68 gal

Time: 10:21
 pH: 5.0
 Alkalinity: 0 mg/L
 Water temperature: 19.5 °C
 Volumes purged: 8.0 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.5	J	pH	0	GE
		Specific conductance	30		$\mu\text{S}/\text{cm}$	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10	J1	$\mu\text{g}/\text{L}$	0	GE
		Aluminum	24		$\mu\text{g}/\text{L}$	0	GE
		Antimony	<2.0		$\mu\text{g}/\text{L}$	0	GE
		Arsenic	<2.0		$\mu\text{g}/\text{L}$	0	GE
		Barium	9.8		$\mu\text{g}/\text{L}$	0	GE
		Benzene	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Bromodichloromethane	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Bromoform	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Bromomethane (Methyl bromide)	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Cadmium	<2.0		$\mu\text{g}/\text{L}$	0	GE
		Calcium	1,250		$\mu\text{g}/\text{L}$	0	GE
		Carbon tetrachloride	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Chloride	2,370		$\mu\text{g}/\text{L}$	0	GE
		Chlorobenzene	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Chloroethane	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Chloroethene (Vinyl chloride)	<5.0		$\mu\text{g}/\text{L}$	0	GE
		2-Chloroethyl vinyl ether	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Chloroform	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Chloromethane (Methyl chloride)	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Chromium	<4.0		$\mu\text{g}/\text{L}$	0	GE
		Copper	<4.0		$\mu\text{g}/\text{L}$	0	GE
		Cyanide	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Dibromochloromethane	<5.0		$\mu\text{g}/\text{L}$	0	GE
		1,1-Dichloroethane	<5.0		$\mu\text{g}/\text{L}$	0	GE
		1,2-Dichloroethane	<5.0		$\mu\text{g}/\text{L}$	0	GE
		1,1-Dichloroethylene	<5.0		$\mu\text{g}/\text{L}$	0	GE
		trans-1,2-Dichloroethylene	<5.0		$\mu\text{g}/\text{L}$	0	GE
	■	Dichloromethane (Methylene chloride)	7.7		$\mu\text{g}/\text{L}$	2	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		$\mu\text{g}/\text{L}$	0	GE
		1,2-Dichloropropane	<5.0		$\mu\text{g}/\text{L}$	0	GE
		cis-1,3-Dichloropropene	<5.0		$\mu\text{g}/\text{L}$	0	GE
		trans-1,3-Dichloropropene	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Endrin	<0.0060		$\mu\text{g}/\text{L}$	0	GE
		Ethylbenzene	<5.0		$\mu\text{g}/\text{L}$	0	GE
		Fluoride	<100		$\mu\text{g}/\text{L}$	0	GE
		Iron	34		$\mu\text{g}/\text{L}$	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 7D collected on 04/26/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	512		µg/L	0	GE
		Manganese	12		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,110		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	8,360		µg/L	0	GE
		Silver	<2.0	J1	µg/L	0	GE
		Sodium	2,280		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<5.0		µg/L	0	GE
		Tetrachloroethylene	<5.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<5.0		µg/L	0	GE
		Total dissolved solids	30,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	26		µg/L	1	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<5.0		µg/L	0	GE
		1,1,2-Trichloroethane	<5.0		µg/L	0	GE
	■	Trichloroethylene	41		µg/L	2	GE
		Trichlorofluoromethane	<5.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	2.2E+00 ± 1.3E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.7E+00 ± 6.0E-01		pCi/L	0	GE
	■	Tritium	1.2E+02 ± 1.7E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

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WELL BGO 8AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76598.8	33.289197 °N	104.6-94.6 ft msl	286.6 ft msl	4" PVC	S	U. Congaree (IIA)
E57617.5	81.663874 °W					

FIELD MEASUREMENTS

Sample date: 04/23/93	Time: 15:16
Depth to water: 125.01 ft (38.10 m) below TOC	pH: 7.7
Water elevation: 161.59 ft (49.25 m) msl	Alkalinity: 79 mg/L
Sp. conductance: 256 μ S/cm	Water temperature: 19.5 °C
Water evacuated before sampling: 158 gal	Volumes purged: 3.6 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.9	J	pH	0	GE
		Specific conductance	248		μ S/cm	0	GE
•		Turbidity	0.13	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	25		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	23		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	48,600	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,260		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	16		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 8AR collected on 04/23/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,260		µg/L	0	GE
		Manganese	19		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	1,440		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	34,900		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,340		µg/L	0	GE
		Sulfate	7,170		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	5.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	187,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	3.7	J6	µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

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WELL BGO 8C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76579.2	33.289156 °N	184.3-174.3 ft msl	287.9 ft msl	4" PVC	S	McBean (IIB ₁)
E57618.7	81.663832 °W					

FIELD MEASUREMENTS

Sample date: 04/30/93
 Depth to water: 62.63 ft (19.09 m) below TOC
 Water elevation: 225.27 ft (68.66 m) msl
 Sp. conductance: 139 μ S/cm
 Water evacuated before sampling: 107 gal

Time: 11:28
 pH: 7.3
 Alkalinity: 56 mg/L
 Water temperature: 20.7 °C
 Volumes purged: 3.2 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.1	J	pH	0	GE
•		pH	7.2	J	pH	0	GE
•		pH	7.5	J	pH	0	WA
•		pH	7.3	J	pH	0	WA
		Specific conductance	119		μ S/cm	0	GE
		Specific conductance	120		μ S/cm	0	GE
•		Specific conductance	108	JV	μ S/cm	0	WA
•		Specific conductance	115	JV	μ S/cm	0	WA
•		Specific conductance	113	JV	μ S/cm	0	WA
•		Turbidity	0.12	J	NTU	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
•		Turbidity	0.55	J	NTU	0	WA
•		Turbidity	0.51	J	NTU	0	WA
•		Turbidity	0.37	J	NTU	0	WA
		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<11		μ g/L	0	WA
		Acetophenone	<14		μ g/L	0	WA
		Acetophenone	<11		μ g/L	0	WA
		Aluminum	40		μ g/L	1	GE
		Aluminum	37		μ g/L	1	GE
		Aluminum	<20		μ g/L	0	WA
		Aluminum	25	J3	μ g/L	0	WA
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<3.0		μ g/L	0	WA
		Antimony	<3.0		μ g/L	0	WA
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	WA
		Arsenic	<2.0		μ g/L	0	WA
		Barium	11		μ g/L	0	GE
		Barium	10		μ g/L	0	GE
		Barium	10		μ g/L	0	WA
		Barium	10		μ g/L	0	WA
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<5.0		μ g/L	0	WA

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 8C collected on 04/30/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Benzene	<5.0		µg/L	0	WA
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<5.0		µg/L	0	WA
		Bromodichloromethane	<5.0		µg/L	0	WA
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<5.0		µg/L	0	WA
		Bromoform	<5.0		µg/L	0	WA
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<10		µg/L	0	WA
		Bromomethane (Methyl bromide)	<10		µg/L	0	WA
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	WA
		Cadmium	<2.0		µg/L	0	WA
		Calcium	20,500		µg/L	0	GE
		Calcium	20,600		µg/L	0	GE
		Calcium	20,300		µg/L	0	WA
		Calcium	20,200		µg/L	0	WA
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<5.0		µg/L	0	WA
		Carbon tetrachloride	<5.0		µg/L	0	WA
		Chloride	2,260		µg/L	0	GE
		Chloride	2,320		µg/L	0	GE
		Chloride	2,490		µg/L	0	WA
		Chloride	2,560		µg/L	0	WA
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<5.0		µg/L	0	WA
		Chlorobenzene	<5.0		µg/L	0	WA
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<10		µg/L	0	WA
		Chloroethane	<10		µg/L	0	WA
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<10		µg/L	0	WA
		Chloroethene (Vinyl chloride)	<10		µg/L	0	WA
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10		µg/L	0	WA
		2-Chloroethyl vinyl ether	<10		µg/L	0	WA
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 8C collected on 04/30/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloroform	<5.0		µg/L	0	WA
		Chloroform	<5.0		µg/L	0	WA
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<10		µg/L	0	WA
		Chloromethane (Methyl chloride)	<10		µg/L	0	WA
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chromium	5.1	J3	µg/L	0	WA
		Chromium	4.7	J3	µg/L	0	WA
		Copper	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	WA
		Copper	<4.0		µg/L	0	WA
		Cyanide	<5.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	WA
		Cyanide	<5.0		µg/L	0	WA
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<5.0		µg/L	0	WA
		Dibromochloromethane	<5.0		µg/L	0	WA
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<5.0		µg/L	0	WA
		1,1-Dichloroethane	<5.0		µg/L	0	WA
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<5.0		µg/L	0	WA
		1,2-Dichloroethane	<5.0		µg/L	0	WA
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<5.0		µg/L	0	WA
		1,1-Dichloroethylene	<5.0		µg/L	0	WA
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<5.0		µg/L	0	WA
		trans-1,2-Dichloroethylene	<5.0		µg/L	0	WA
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<5.0		µg/L	0	WA
		Dichloromethane (Methylene chloride)	<5.0		µg/L	0	WA
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<1.1		µg/L	0	WA
		2,4-Dichlorophenoxyacetic acid	<1.1		µg/L	0	WA
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE

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WELL BGO 8C collected on 04/30/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 5.0		µg/L	0	WA
		1,2-Dichloropropane	< 5.0		µg/L	0	WA
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 5.0		µg/L	0	WA
		cis-1,3-Dichloropropene	< 5.0		µg/L	0	WA
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 5.0		µg/L	0	WA
		trans-1,3-Dichloropropene	< 5.0		µg/L	0	WA
		Endrin	< 0.0060		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin	< 0.11		µg/L	0	WA
		Endrin	< 0.11		µg/L	0	WA
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 5.0		µg/L	0	WA
		Ethylbenzene	< 5.0		µg/L	0	WA
		Fluoride	< 100		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Fluoride	< 100		µg/L	0	WA
		Fluoride	< 100		µg/L	0	WA
		Iron	35		µg/L	0	GE
		Iron	8.9		µg/L	0	GE
		Iron	12	J3	µg/L	0	WA
		Iron	11	J3	µg/L	0	WA
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	WA
		Lead	< 3.0		µg/L	0	WA
		Lindane	< 0.0050		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Lindane	< 0.056		µg/L	0	WA
		Lindane	< 0.056		µg/L	0	WA
		Magnesium	483		µg/L	0	GE
		Magnesium	468		µg/L	0	GE
		Magnesium	456		µg/L	0	WA
		Magnesium	446		µg/L	0	WA
		Manganese	4.8		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	WA
		Manganese	< 2.0		µg/L	0	WA
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	WA
		Mercury	< 0.20		µg/L	0	WA
		Methoxychlor	< 0.50		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Methoxychlor	< 0.56		µg/L	0	WA
		Methoxychlor	< 0.56		µg/L	0	WA
		Naphthalene	< 10	J1	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE

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WELL BGO 8C collected on 04/30/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	WA
		Nickel	5.1	J3	µg/L	0	WA
		Nitrate as nitrogen	810		µg/L	0	WA
		Nitrate as nitrogen	915		µg/L	0	WA
		Nitrate-nitrite as nitrogen	910		µg/L	0	GE
		Nitrate-nitrite as nitrogen	640		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	WA
		Phenols	<5.0		µg/L	0	WA
		Phenols	<5.0		µg/L	0	WA
		Potassium	1,150		µg/L	0	GE
		Potassium	1,170		µg/L	0	GE
		Potassium	1,120		µg/L	0	WA
		Potassium	1,190		µg/L	0	WA
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	WA
		Selenium	<2.0		µg/L	0	WA
		Silica	13,300		µg/L	0	GE
		Silica	13,100		µg/L	0	GE
		Silica	11,000		µg/L	0	WA
		Silica	11,200		µg/L	0	WA
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	WA
		Silver	<2.0		µg/L	0	WA
		Sodium	3,160		µg/L	0	GE
		Sodium	3,040		µg/L	0	GE
		Sodium	2,950	V	µg/L	0	WA
		Sodium	2,930	V	µg/L	0	WA
		Sulfate	1,120		µg/L	0	GE
		Sulfate	1,160		µg/L	0	GE
		Sulfate	1,030		µg/L	0	WA
		Sulfate	1,070		µg/L	0	WA
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<5.0		µg/L	0	WA
		1,1,2,2-Tetrachloroethane	<5.0		µg/L	0	WA
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<5.0		µg/L	0	WA
		Tetrachloroethylene	<5.0		µg/L	0	WA
		Tin	<2.0		µg/L	0	GE
		Tin	2.3		µg/L	0	GE
		Tin	<9.5		µg/L	0	WA
		Tin	<9.5		µg/L	0	WA
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<5.0		µg/L	0	WA

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WELL BGO 8C collected on 04/30/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Toluene	<5.0		µg/L	0	WA
		Total dissolved solids	74,000	V	µg/L	0	GE
		Total dissolved solids	73,000	V	µg/L	0	GE
		Total dissolved solids	82,000		µg/L	0	WA
		Total dissolved solids	79,000		µg/L	0	WA
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	WA
		Total organic carbon	<1,000		µg/L	0	WA
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	WA
		Total organic halogens	<5.0		µg/L	0	WA
		Total phosphates (as P)	140		µg/L	0	GE
		Total phosphates (as P)	170		µg/L	0	GE
		Total phosphates (as P)	153		µg/L	0	WA
		Total phosphates (as P)	166		µg/L	0	WA
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<1.1		µg/L	0	WA
		Toxaphene	<1.1		µg/L	0	WA
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.55		µg/L	0	WA
		2,4,5-TP (Silvex)	<0.55		µg/L	0	WA
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<5.0		µg/L	0	WA
		1,1,1-Trichloroethane	<5.0		µg/L	0	WA
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<5.0		µg/L	0	WA
		1,1,2-Trichloroethane	<5.0		µg/L	0	WA
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<5.0		µg/L	0	WA
		Trichloroethylene	<5.0		µg/L	0	WA
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<5.0		µg/L	0	WA
		Trichlorofluoromethane	<5.0		µg/L	0	WA
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<3.0		µg/L	0	WA
		Vanadium	<3.0		µg/L	0	WA
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<5.0		µg/L	0	WA
		Xylenes	<5.0		µg/L	0	WA
		Zinc	16		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE

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WELL BGO 8C collected on 04/30/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Zinc	3.4	J3V	μg/L	0	WA
		Zinc	3.8	J3V	μg/L	0	WA
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Carbon-14	< 2.0E+02		pCi/L	0	CN
		Carbon-14	< 2.0E+02		pCi/L	0	CN
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Gross alpha	< 6.0E-01		pCi/L	0	TM
		Gross alpha	1.4E+00 ± 1.3E+00		pCi/L	0	TM
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	< 9.0E-01		pCi/L	0	TM
		Nonvolatile beta	1.9E+00 ± 1.9E+00		pCi/L	0	TM
		Radium-226	7.2E-01 ± 8.7E-01		pCi/L	0	TM
		Radium-226	2.4E-01 ± 6.7E-01		pCi/L	0	TM
		Radium-228	1.0E+00 ± 8.0E-01		pCi/L	0	TM
		Radium-228	< 1.7E-01		pCi/L	0	TM
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.2E+00 ± 5.0E-01		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Tritium	9.5E-01 ± 4.4E-01		pCi/mL	0	TM
		Tritium	8.4E-01 ± 3.9E-01		pCi/mL	0	TM
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-233/234	< 1.0E+00		pCi/L	0	CN
		Uranium-233/234	< 1.0E+00		pCi/L	0	CN
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	CN
		Uranium-235	< 1.0E+00		pCi/L	0	CN
		Uranium-238	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	CN
		Uranium-238	< 1.0E+00		pCi/L	0	CN

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WELL BGO 8D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76588.8	33.289175 °N	240.6-220.6 ft msl	287.8 ft msl	4" PVC	S	Water table (IIB ₂)
E57617.8	81.663853 °W					

FIELD MEASUREMENTS

Sample date: 04/23/93
 Depth to water: 54.35 ft (16.57 m) below TOC
 Water elevation: 233.45 ft (71.16 m) msl
 Sp. conductance: 29 μ S/cm
 Water evacuated before sampling: 160 gal

Time: 15:31
 pH: 5.0
 Alkalinity: 0 mg/L
 Water temperature: 19.7 °C
 Volumes purged: 19.0 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.2	J	pH	0	GE
		Specific conductance	27		μ S/cm	0	GE
•		Turbidity	1.6	J	NTU	0	GE
		Acetophenone	<1.0	J1	μ g/L	0	GE
		Aluminum	33		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	10		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	731	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,040		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	6.9		μ g/L	0	GE

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WELL BGO 8D collected on 04/23/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	430		µg/L	0	GE
		Manganese	9.9		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,240		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	7,570		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,560		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	24,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
•		Xylenes	<2.0	J6	µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	5.1E+00 ± 1.5E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.0E+00 ± 7.0E-01		pCi/L	0	GE
		Tritium	1.3E+01 ± 6.0E-01		pCi/mL	1	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 9AA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76975.7	33.289630 °N	83.8-73.8 ft msl	284.8 ft msl	4" PVC	S	L. Congaree (IIA)
E57371.9	81.665252 °W					

FIELD MEASUREMENTS

Sample date: 04/27/93
 Depth to water: 126.65 ft (38.60 m) below TOC
 Water elevation: 158.15 ft (48.20 m) msl
 Sp. conductance: 3780 μ S/cm
 Water evacuated before sampling: 43 gal
 The well went dry during purging.

Time: 11:00
 pH: 12.5
 Alkalinity: 991 mg/L
 Water temperature: 19.1 °C
 Volumes purged: 0.8 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	13	J	pH	2	GE
		Specific conductance	4,700		μ S/cm	2	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	936		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	608		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<12		μ g/L	0	GE
		Calcium	338,000	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,060		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<24		μ g/L	0	GE
		Copper	<24		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.1		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 9AA collected on 04/27/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Fluoride	< 100		µg/L	0	GE
		Iron	< 24		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	< 12		µg/L	0	GE
		Manganese	< 12		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 24		µg/L	0	GE
		Nitrate-nitrite as nitrogen	< 50		µg/L	0	GE
		Nitrate-nitrite as nitrogen	< 50		µg/L	0	GE
		Phenols	< 10		µg/L	0	GE
		Potassium	121,000		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	2,300	J2	µg/L	0	GE
		Silver	< 12		µg/L	0	GE
		Sodium	60,900		µg/L	0	GE
		Sulfate	6,360		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	262		µg/L	2	GE
		Toluene	2.6		µg/L	0	GE
		Total dissolved solids	1.1E+06	V	µg/L	0	GE
		Total organic carbon	4,360		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 48		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	1.5E+01 ± 3.9E+00		pCi/L	1	GE
■		Nonvolatile beta	6.4E+01 ± 2.7E+00		pCi/L	2	GE
		Radium, total alpha-emitting	6.1E+00 ± 1.2E+00		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 9D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76811.6	33.289442 °N	229.2-209.2 ft msl	285.1 ft msl	4" PVC	S	Water table (IIB ₂)
E57478.9	81.664652 °W					

FIELD MEASUREMENTS

Sample date: 04/26/93
 Depth to water: 53.24 ft (16.23 m) below TOC
 Water elevation: 231.86 ft (70.67 m) msl
 Sp. conductance: 33 μ S/cm
 Water evacuated before sampling: 57 gal

Time: 11:30
 pH: 5.1
 Alkalinity: 0 mg/L
 Water temperature: 20.1 °C
 Volumes purged: 3.8 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.3	J	pH	0	GE
		Specific conductance	31		μ S/cm	0	GE
		Turbidity	0.64		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	48		μ g/L	1	GE
		Aluminum	46		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	11		μ g/L	0	GE
		Barium	11		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	1,260		μ g/L	0	GE
		Calcium	1,260		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,800		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 9D collected on 04/26/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	35		µg/L	0	GE
		Iron	32		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	537		µg/L	0	GE
		Magnesium	537		µg/L	0	GE
		Manganese	22		µg/L	0	GE
		Manganese	22		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,520		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	9,340		µg/L	0	GE
		Silica	9,330		µg/L	0	GE
		Silver	<2.0	J1	µg/L	0	GE
		Silver	<2.0	J1	µg/L	0	GE
		Sodium	2,920		µg/L	0	GE
		Sodium	2,920		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	35,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	16		µg/L	0	GE
		Zinc	15		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	3.8E+00 ± 1.6E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	4.1E+00 ± 9.0E-01		pCi/L	0	GE
		Radium, total alpha-emitting	3.9E+00 ± 9.0E-01		pCi/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 9D collected on 04/26/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
■		Tritium	2.0E+01 ± 7.0E-01		pCi/mL	2	GE
		Tritium	2.0E+01 ± 7.0E-01		pCi/mL	1	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 10AA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76997.9 E56990.5	33.289057 °N 81.666300 °W	90.8-80.8 ft msl	300.7 ft msl	4" PVC	S	L. Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 04/26/93
 Depth to water: 142.32 ft (43.38 m) below TOC
 Water elevation: 158.38 ft (48.27 m) msl
 Sp. conductance: 193 μ S/cm
 Water evacuated before sampling: 139 gal

Time: 14:35
 pH: 7.8
 Alkalinity: 88 mg/L
 Water temperature: 19.9 °C
 Volumes purged: 2.7 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	7.8	J	pH	0	GE
		Specific conductance	188		μ S/cm	0	GE
		Turbidity	< 0.10		NTU	0	GE
		Turbidity	< 0.10		NTU	0	GE
		Acetophenone	< 10	J1	μ g/L	0	GE
		Aluminum	29		μ g/L	1	GE
		Antimony	< 2.0		μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Barium	48		μ g/L	0	GE
		Benzene	< 1.0		μ g/L	0	GE
		Bromodichloromethane	< 1.0		μ g/L	0	GE
		Bromoform	< 1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		μ g/L	0	GE
		Cadmium	< 2.0		μ g/L	0	GE
		Calcium	33,100		μ g/L	0	GE
		Carbon tetrachloride	< 1.0		μ g/L	0	GE
		Chloride	2,230		μ g/L	0	GE
		Chlorobenzene	< 1.0		μ g/L	0	GE
		Chloroethane	< 1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		μ g/L	0	GE
		Chloroform	< 1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		μ g/L	0	GE
		Chromium	< 4.0		μ g/L	0	GE
		Copper	< 4.0		μ g/L	0	GE
		Cyanide	< 5.0		μ g/L	0	GE
		Dibromochloromethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethane	< 1.0		μ g/L	0	GE
		1,2-Dichloroethane	< 1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 10AA collected on 04/26/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	11		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	761		µg/L	0	GE
		Manganese	14		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	6,710		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	35,400		µg/L	0	GE
		Silver	<2.0	J1	µg/L	0	GE
		Sodium	4,980		µg/L	0	GE
		Sulfate	6,780		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	15		µg/L	1	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	123,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	3.7		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	5.6E+00 ± 1.5E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.7E+00 ± 6.0E-01		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 10AR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76806.0	33.288752 °N	106.5-96.5 ft msl	300.5 ft msl	4" PVC	S	U. Congaree (IIA)
E57063.8	81.665734 °W					

FIELD MEASUREMENTS

Sample date: 04/27/93
 Depth to water: 141.68 ft (43.18 m) below TOC
 Water elevation: 158.82 ft (48.41 m) msl
 Sp. conductance: 226 μ S/cm
 Water evacuated before sampling: 106 gal

Time: 12:21
 pH: 8.4
 Alkalinity: 90 mg/L
 Water temperature: 20.5 °C
 Volumes purged: 2.6 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	8.2	J	pH	1	GE
		Specific conductance	248		μ S/cm	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	24		μ g/L	0	GE
		Barium	23		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	39,300	J2	μ g/L	0	GE
		Calcium	39,500	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,220		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 10AR collected on 04/27/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	31		µg/L	0	GE
		Copper	31		µg/L	0	GE
		Copper	82		µg/L	0	GE
		Copper	77		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.9		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.6		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
•		Endrin	<0.0060	J6	µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	145		µg/L	0	GE
		Iron	8.1		µg/L	0	GE
		Iron	7.3		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
•		Lindane	<0.0050	J6	µg/L	0	GE
		Magnesium	1,340		µg/L	0	GE
		Magnesium	1,340		µg/L	0	GE
		Manganese	38		µg/L	1	GE
		Manganese	39		µg/L	1	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
•		Methoxychlor	<0.50	J6	µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	4,750		µg/L	0	GE
		Potassium	4,760		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	29,400	J2	µg/L	0	GE
		Silica	29,400	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,750		µg/L	0	GE

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WELL BGO 10AR collected on 04/27/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Sodium	4,760		µg/L	0	GE
		Sulfate	7,900		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	11		µg/L	1	GE
		Tin	11		µg/L	1	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	153,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	60		µg/L	0	GE
•		Toxaphene	<0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	17		µg/L	0	GE
		Zinc	17		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	4.4E+00 ± 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	3.6E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.9E+00 ± 7.0E-01		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

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WELL BGO 10B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76982.1 E56978.8	33.289003 °N 81.666300 °W	149.0-139.0 ft msl	301 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 04/27/93

Depth to water: 79.16 ft (24.13 m) below TOC

Water elevation: 221.84 ft (67.62 m) msl

Sp. conductance: 153 μ S/cm

Water evacuated before sampling: 47 gal

The well went dry during purging.

Time: 10:24

pH: 9.0

Alkalinity: 50 mg/L

Water temperature: 18.1 °C

Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	9.0	J	pH	1	GE
•		pH	9.0	J	pH	1	GE
		Specific conductance	163		μ S/cm	0	GE
		Specific conductance	162		μ S/cm	0	GE
		Turbidity	2.1		NTU	0	GE
		Acetophenone	<1.0		μ g/L	0	GE
		Aluminum	102		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	32		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	12,900	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,290		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.2		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 10B collected on 04/27/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Fluoride	< 100		µg/L	0	GE
		Iron	15		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	1,070		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	< 50		µg/L	0	GE
		Phenols	15		µg/L	0	GE
		Potassium	12,600		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	39,600	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	10,400		µg/L	0	GE
		Sulfate	6,530		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	30		µg/L	2	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	122,000	V	µg/L	0	GE
		Total dissolved solids	123,000	V	µg/L	0	GE
		Total organic carbon	1,320		µg/L	0	GE
		Total organic carbon	1,310		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	14		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	8.8E+00 ± 1.7E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.0E+00 ± 5.0E-01		pCi/L	0	GE
■		Tritium	7.9E+01 ± 1.4E+00		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 10C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76805.2	33.288713 °N	167.3-157.3 ft msl	301.3 ft msl	4" PVC	S	Barnwell (IIB ₁)
E57041.1	81.665792 °W					

FIELD MEASUREMENTS

Sample date: 04/27/93
 Depth to water: 78.69 ft (23.99 m) below TOC
 Water elevation: 222.61 ft (67.85 m) msl
 Sp. conductance: 137 μ S/cm
 Water evacuated before sampling: 27 gal
 The well went dry during purging.

Time: 11:56
 pH: 10.6
 Alkalinity: 33 mg/L
 Water temperature: 21.6 °C
 Volumes purged: 0.6 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	10	J	pH	2	GE
		Specific conductance	115		μ S/cm	0	GE
		Turbidity	36		NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	335		μ g/L	2	GE
		Antimony	2.2		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	62		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	15,000	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,880		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	4.2		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.3		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 10C collected on 04/27/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	59		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	264		µg/L	0	GE
		Manganese	2.8		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	440		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	12,700		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	16,200	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	9,160		µg/L	0	GE
		Sulfate	2,510		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	27		µg/L	2	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	69,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	6.6		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	7.4		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	2.1E+00 ± 2.1E+00		pCi/L	0	GE
		Nonvolatile beta	7.9E+00 ± 1.7E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
■		Tritium	1.6E+02 ± 1.9E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 10DR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76804.8	33.288765 °N	238.3-218.3 ft msl	300.4 ft msl	4" PVC	S	Water table (IIB ₂)
E57073.7	81.665706 °W					

FIELD MEASUREMENTS

Sample date: 04/27/93

Depth to water: 67.14 ft (20.46 m) below TOC

Water elevation: 233.26 ft (71.10 m) msl

Sp. conductance: 91 μ S/cm

Water evacuated before sampling: 7 gal

The well went dry during purging.

Time: 11:34

pH: 6.2

Alkalinity: 21 mg/L

Water temperature: 20.5 °C

Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.3	J	pH	0	GE
		Specific conductance	65		μ S/cm	0	GE
		Specific conductance	63		μ S/cm	0	GE
•		Turbidity	18	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	170		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	30		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	4,880		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,380		μ g/L	0	GE
		Chloride	2,470		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	6.3		μ g/L	0	GE
•		Cyanide	<10	J	μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 10DR collected on 04/27/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	271	J2	µg/L	1	GE
		Lead	13		µg/L	1	GE
		Lead	13		µg/L	1	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	334		µg/L	0	GE
		Manganese	33		µg/L	1	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	21		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,310		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,250		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	3,180		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	7,660		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	7,330		µg/L	0	GE
		Sulfate	1,150		µg/L	0	GE
		Sulfate	1,140		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	6.1		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	55,000	V	µg/L	0	GE
		Total dissolved solids	47,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	7.1		µg/L	0	GE
		Total phosphates (as P)	61		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	1.1		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	123		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Carbon-14	2.1E+02 ± 8.0E+01		pCi/L	0	GP
		Gross alpha	3.2E+00 ± 1.3E+00		pCi/L	0	GE
		Nonvolatile beta	4.2E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.0E+00 ± 4.0E-01		pCi/L	0	GE
		Total activity	2.3E+06 ± 3.5E+04		pCi/L	0	EM
■		Tritium	2.0E+03 ± 6.8E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 10DR collected on 04/27/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Uranium-238	< 1.0E + 00		pCi/L	0	GP

WELL BGO 11D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76805.1	33.288077 °N	236.3-216.3 ft msl	305.3 ft msl	4" PVC	S	Water table (IIB ₂)
E56651.3	81.666819 °W					

FIELD MEASUREMENTS

Sample date: 05/03/93	Time: 14:32
Depth to water: 72.43 ft (22.08 m) below TOC	pH: 4.7
Water elevation: 232.87 ft (70.98 m) msl	Alkalinity: 0 mg/L
Sp. conductance: 40 µS/cm	Water temperature: 20.0 °C
Water evacuated before sampling: 56 gal	Volumes purged: 5.2 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.8	J	pH	0	GE
		Specific conductance	30		µS/cm	0	GE
		Specific conductance	30		µS/cm	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	27		µg/L	1	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	5.8		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	880	J2	µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	2,320		µg/L	0	GE
		Chloride	2,320		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 11D collected on 05/03/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	6.4		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	624		µg/L	0	GE
		Manganese	6.4		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,360		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	7,220	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	3,220		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	35,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	1.1		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	5.3		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	3.9E+00 ± 1.3E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	4.3E+00 ± 1.0E+00		pCi/L	0	GE
		Total activity	8.9E+05 ± 6.6E+03		pCi/L	0	EM
■		Tritium	9.5E+02 ± 4.6E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

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WELL BGO 12AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76803.8	33.287435 °N	109.3-99.3 ft msl	313.4 ft msl	4" PVC	S	U. Congaree (IIA)
E56259.9	81.667847 °W					

FIELD MEASUREMENTS

Sample date: 04/27/93	Time: 14:04
Depth to water: 155.25 ft (47.32 m) below TOC	pH: 10.9
Water elevation: 158.15 ft (48.20 m) msl	Alkalinity: 99 mg/L
Sp. conductance: 235 μ S/cm	Water temperature: 20.1 °C
Water evacuated before sampling: 129 gal	Volumes purged: 3.3 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	11	J	pH	2	GE
		Specific conductance	152		μ S/cm	0	GE
		Turbidity	0.68		NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	459		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	2.5		μ g/L	0	GE
		Barium	61		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	36,500	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,160		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	<4.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 12AR collected on 04/27/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	132		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	60		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	5,330		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	26,200	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,340		µg/L	0	GE
		Sulfate	6,360		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	14		µg/L	1	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	86,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	5.6		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	5.5		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	4.0E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.3E+00 ± 6.0E-01		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

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WELL BGO 12CR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76806.0	33.287367 °N	154.0-144.0 ft msl	314 ft msl	4" PVC	S	Barnwell (IIB ₁)
E56215.2	81.667969 °W					

FIELD MEASUREMENTS

Sample date: 04/27/93	Time: 13:09
Depth to water: 90.77 ft (27.67 m) below TOC	pH: 10.5
Water elevation: 223.23 ft (68.04 m) msl	Alkalinity: 47 mg/L
Sp. conductance: 159 μ S/cm	Water temperature: 20.9 °C
Water evacuated before sampling: 43 gal	Volumes purged: 0.8 well volumes
The well went dry during purging.	

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	10	J	pH	2	GE
		Specific conductance	138		μ S/cm	0	GE
		Turbidity	0.31		NTU	0	GE
		Acetophenone	<1.0		μ g/L	0	GE
		Aluminum	363		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	9.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	12,500	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,850		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	4.4		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	49		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 12CR collected on 04/27/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	190		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	790		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	3,250		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	18,100	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	11,100		µg/L	0	GE
		Sulfate	3,810		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	8.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	87,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	29		µg/L	1	GE
		Total phosphates (as P)	140		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		Tributyl phosphate	< 10		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
■		Trichloroethylene	24		µg/L	2	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	10.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	2.3		µg/L	0	GE
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	2.4E+00 ± 1.2E+00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 12D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76805.2	33.287391 °N	237.8-217.8 ft msl	313.7 ft msl	4" PVC	S	Water table (IIB ₂)
E56231.1	81.667925 °W					

FIELD MEASUREMENTS

Sample date: 04/27/93
 Depth to water: 80.85 ft (24.64 m) below TOC
 Water elevation: 232.85 ft (70.97 m) msl
 Sp. conductance: 142 μ S/cm
 Water evacuated before sampling: 7 gal
 The well went dry during purging.

Time: 13:28
 pH: 7.0
 Alkalinity: 34 mg/L
 Water temperature: 20.1 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.0	J	pH	0	GE
		Specific conductance	127		μ S/cm	0	GE
		Turbidity	20		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	66		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	63		μ g/L	0	GE
		Benzene	<5.0		μ g/L	0	GE
		Bromodichloromethane	<5.0		μ g/L	0	GE
		Bromoform	<5.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<5.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	14,400	J2	μ g/L	0	GE
		Carbon tetrachloride	<5.0		μ g/L	0	GE
		Chloride	2,400		μ g/L	0	GE
		Chlorobenzene	<5.0		μ g/L	0	GE
		Chloroethane	<5.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<5.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<5.0		μ g/L	0	GE
		Chloroform	<5.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<5.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<5.0		μ g/L	0	GE
		1,1-Dichloroethane	<5.0		μ g/L	0	GE
		1,2-Dichloroethane	<5.0		μ g/L	0	GE
		1,1-Dichloroethylene	<5.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<5.0		μ g/L	0	GE
■		Dichloromethane (Methylene chloride)	8.5		μ g/L	2	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<5.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<5.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<5.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<5.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	18		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 12D collected on 04/27/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,680		µg/L	0	GE
		Manganese	5.8		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,410		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	2,500		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	6,750	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	5,090		µg/L	0	GE
		Sulfate	8,320		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<5.0		µg/L	0	GE
		Tetrachloroethylene	<5.0		µg/L	0	GE
		Tin	5.9		µg/L	0	GE
		Toluene	<5.0		µg/L	0	GE
		Total dissolved solids	69,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	62		µg/L	2	GE
		Total phosphates (as P)	120		µg/L	0	GE
		Total phosphates (as P)	110		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<5.0		µg/L	0	GE
		1,1,2-Trichloroethane	<5.0		µg/L	0	GE
■		Trichloroethylene	83		µg/L	2	GE
		Trichlorofluoromethane	<5.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<10		µg/L	0	GE
		Zinc	8.4		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	4.3E+00 ± 1.9E+00		pCi/L	0	GE
		Nonvolatile beta	3.8E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	3.2E+00 ± 9.0E-01		pCi/L	0	GE
		Tritium	1.6E+01 ± 7.0E-01		pCi/mL	1	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

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WELL BGO 13DR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76824.7	33.286797 °N	220.3-210.3 ft msl	319.3 ft msl	4" PVC	S	Barnwell (IIB ₁)
E55840.4	81.668992 °W					

FIELD MEASUREMENTS

Sample date: 05/13/93
 Depth to water: 86.28 ft (26.30 m) below TOC
 Water elevation: 233.02 ft (71.03 m) msl
 Sp. conductance: 100 μ S/cm
 Water evacuated before sampling: 10 gal
 The well went dry during purging.

Time: 9:22
 pH: 9.6
 Alkalinity: 23 mg/L
 Water temperature: 19.5 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.3	J	pH	0	GE
		Specific conductance	80		μ S/cm	0	GE
		Turbidity	5.2		NTU	0	GE
		Acetophenone	<1.0		μ g/L	0	GE
		Aluminum	42		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	72		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	6,890	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,860		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	8.5		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE

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WELL BGO 13DR collected on 05/13/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	2.0	JV	µg/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	< 0.30	J	µg/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	< 0.30	J6	µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	258		µg/L	1	GE
		Lead	21		µg/L	2	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	413		µg/L	0	GE
		Manganese	120		µg/L	2	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	7.9		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,310		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	1,190		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	6,650		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	8,830		µg/L	0	GE
		Sulfate	9,500		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	58,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	16		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
•		2,4,5-TP (Silvex)	< 0.090	J	µg/L	0	GE
•		2,4,5-TP (Silvex)	< 0.090	J6	µg/L	0	GE
		Tributyl phosphate	< 10		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 13DR collected on 05/13/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	58		µg/L	0	GE
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Gross alpha	2.5E+00 ± 9.2E-01		pCi/L	0	GE
		Nonvolatile beta	2.8E+00 ± 9.1E-01		pCi/L	0	GE
		Radium, total alpha-emitting	1.7E+00 ± 6.0E-01		pCi/L	0	GE
■		Tritium	3.1E+01 ± 9.0E-01		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 14AR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76351.8 E55788.9	33.285667 °N 81.668209 °W	106.8-96.8 ft msl	300.7 ft msl	4" PVC	S	U. Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 05/04/93
 Depth to water: 141.05 ft (42.99 m) below TOC
 Water elevation: 159.65 ft (48.66 m) msl
 Sp. conductance: 536 µS/cm
 Water evacuated before sampling: 161 gal

Time: 11:14
 pH: 11.3
 Alkalinity: 159 mg/L
 Water temperature: 20.2 °C
 Volumes purged: 3.9 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	11	J	pH	2	GE
		Specific conductance	415		µS/cm	1	GE
		Turbidity	< 0.10		NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	666		µg/L	2	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	3.2		µg/L	0	GE
		Barium	129		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	47,700	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	2,250		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 14AR collected on 05/04/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	105		µg/L	0	GE
		Iron	11		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	384		µg/L	0	GE
		Manganese	5.9		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	160		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	20,700		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	20,300	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	17,400		µg/L	0	GE
		Sulfate	4,410		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	46		µg/L	2	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	185,000	V	µg/L	0	GE
		Total organic carbon	1,180		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	120		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	4.7		µg/L	1	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 14AR collected on 05/04/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Zinc	< 2.0		µg/L	0	GE
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	1.5E+01 ± 2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.2E+00 ± 6.0E-01		pCi/L	0	GE
		Tritium	9.5E+00 ± 5.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 14CR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76337.8	33.285636 °N	200.1-190.1 ft msl	300.5 ft msl	4" PVC	S	Barnwell (IIB ₁)
E55789.0	81.668181 °W					

FIELD MEASUREMENTS

Sample date: 05/04/93
 Depth to water: 74.68 ft (22.76 m) below TOC
 Water elevation: 225.82 ft (68.83 m) msl
 Sp. conductance: 139 µS/cm
 Water evacuated before sampling: 17 gal
 The well went dry during purging.

Time: 10:05
 pH: 7.8
 Alkalinity: 29 mg/L
 Water temperature: 19.9 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	8.1	J	pH	1	GE
		Specific conductance	120		µS/cm	0	GE
		Turbidity	3.4		NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	418		µg/L	2	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	11		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	7,190	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	2,470		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	34		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 14CR collected on 05/04/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	120		µg/L	0	GE
		Lead	4.3		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	987		µg/L	0	GE
		Manganese	14		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	970		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	11,400		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	9,920	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	10,000		µg/L	0	GE
		Sulfate	10,700		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	24		µg/L	2	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	94,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	26		µg/L	1	GE
		Total phosphates (as P)	60		µg/L	0	GE
		Total phosphates (as P)	50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	2.1		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	48		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	17		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	5.6E+00 ± 1.4E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.6E+00 ± 8.0E-01		pCi/L	0	GE
■		Tritium	3.5E+01 ± 9.0E-01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 14CR collected on 05/04/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 14DR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76322.1	33.285602 °N	238.1-218.1 ft msl	300.3 ft msl	4" PVC	S	Water table (IIB ₂)
E55789.4	81.668150 °W					

FIELD MEASUREMENTS

Sample date: 05/04/93
 Depth to water: 67.75 ft (20.65 m) below TOC
 Water elevation: 232.55 ft (70.88 m) msl
 Sp. conductance: 35 µS/cm
 Water evacuated before sampling: 69 gal

Time: 10:35
 pH: 5.3
 Alkalinity: 1 mg/L
 Water temperature: 20.0 °C
 Volumes purged: 7.3 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.8	J	pH	0	GE
		Specific conductance	30		µS/cm	0	GE
		Turbidity	< 0.10		NTU	0	GE
		Acetophenone	< 10		µg/L	0	GE
		Aluminum	33		µg/L	1	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	6.1		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	854	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	3,340		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	9.5		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 14DR collected on 05/04/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	14		µg/L	0	GE
		Lead	3.3		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	595		µg/L	0	GE
		Manganese	14		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	960		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	507		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	7,560	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	3,050		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	36,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		Tributyl phosphate	< 10		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
	■	Trichloroethylene	18		µg/L	2	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	20		µg/L	0	GE
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Gross alpha	2.2E+00 ± 7.9E-01		pCi/L	0	GE
		Gross alpha	2.8E+00 ± 8.8E-01		pCi/L	0	GE
		Nonvolatile beta	6.0E+00 ± 1.3E+00		pCi/L	0	GE
		Nonvolatile beta	4.5E+00 ± 1.2E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.2E+00 ± 7.0E-01		pCi/L	0	GE
		Tritium	1.2E+01 ± 6.0E-01		pCi/mL	1	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 15D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75973.5 E55859.1	33.284945 °N 81.667289 °W	238.7-218.7 ft msl	298.7 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/03/93
 Depth to water: 66.44 ft (20.25 m) below TOC
 Water elevation: 232.26 ft (70.79 m) msl
 Sp. conductance: 35 μ S/cm
 Water evacuated before sampling: 71 gal

Time: 15:34
 pH: 5.3
 Alkalinity: 2 mg/L
 Water temperature: 20.1 °C
 Volumes purged: 8.0 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.7	J	pH	0	GE
		Specific conductance	30		μ S/cm	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	8.9		μ g/L	0	GE
		Benzene	<5.0		μ g/L	0	GE
		Bromodichloromethane	<5.0		μ g/L	0	GE
		Bromoform	<5.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<5.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	2,300	J2	μ g/L	0	GE
		Carbon tetrachloride	<5.0		μ g/L	0	GE
		Chloride	2,300		μ g/L	0	GE
		Chlorobenzene	<5.0		μ g/L	0	GE
		Chloroethane	<5.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<5.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<5.0		μ g/L	0	GE
		Chloroform	<5.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<5.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<5.0		μ g/L	0	GE
		1,1-Dichloroethane	<5.0		μ g/L	0	GE
		1,2-Dichloroethane	<5.0		μ g/L	0	GE
		1,1-Dichloroethylene	<5.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<5.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<5.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<5.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<5.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<5.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<5.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	5.4		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 15D collected on 05/03/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	418		µg/L	0	GE
		Manganese	6.1		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,090		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	< 500		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	7,060	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	2,250		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 5.0		µg/L	0	GE
■		Tetrachloroethylene	6.0		µg/L	2	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 5.0		µg/L	0	GE
		Total dissolved solids	33,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	62		µg/L	2	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 5.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 5.0		µg/L	0	GE
■		Trichloroethylene	80		µg/L	2	GE
		Trichlorofluoromethane	< 5.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	4.5		µg/L	0	GE
		Carbon-14	< 2.0E + 02		pCi/L	0	GP
		Carbon-14	< 2.0E + 02		pCi/L	0	GP
		Gross alpha	< 2.0E + 00		pCi/L	0	GE
		Nonvolatile beta	3.2E + 00 ± 1.1E + 00		pCi/L	0	GE
		Radium, total alpha-emitting	1.6E + 00 ± 6.0E - 01		pCi/L	0	GE
		Total activity	5.8E + 05 ± 5.4E + 03		pCi/L	0	EM
■		Tritium	5.3E + 02 ± 3.4E + 00		pCi/mL	2	GE
		Uranium-233/234	< 1.0E + 00		pCi/L	0	GP
		Uranium-235	< 1.0E + 00		pCi/L	0	GP
		Uranium-238	< 1.0E + 00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 16AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75743.2	33.285020 °N	113.7-103.7 ft msl	303.7 ft msl	4" PVC	S	Congaree (IIA)
E56217.1	81.665899 °W					

FIELD MEASUREMENTS

Sample date: 05/05/93
 Depth to water: 142.02 ft (43.29 m) below TOC
 Water elevation: 161.68 ft (49.28 m) msl
 Sp. conductance: 209 μ S/cm
 Water evacuated before sampling: 141 gal

Time: 10:36
 pH: 9.3
 Alkalinity: 77 mg/L
 Water temperature: 19.8 °C
 Volumes purged: 3.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	8.9	J	pH	1	GE
		Specific conductance	198		μ S/cm	0	GE
		Turbidity	4.1		NTU	0	GE
		Acetophenone	<1.0	J1	μ g/L	0	GE
		Aluminum	181		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	2.0		μ g/L	0	GE
		Barium	36		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	25,200	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,110		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	146		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 16AR collected on 05/05/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	897		µg/L	0	GE
		Manganese	13		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,050		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	2,750		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	29,200	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	16,800		µg/L	0	GE
		Sulfate	6,750		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	5.5		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	141,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	248		µg/L	0	GE
		Total phosphates (as P)	298		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	75		µg/L	0	GE
		Zinc	80		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	2.9E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Total activity	-3.6E+02 ± 1.1E+03		pCi/L	0	EM
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 16B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75767.5	33.285019 °N	146.0-136.0 ft msl	305.1 ft msl	4" PVC	S	McBean (IIB ₁)
E56183.8	81.666034 °W					

FIELD MEASUREMENTS

Sample date: 05/06/93

Depth to water: 84.38 ft (25.72 m) below TOC

Water elevation: 220.72 ft (67.28 m) msl

Sp. conductance: 219 μ S/cm

Water evacuated before sampling: 49 gal

The well went dry during purging.

Time: 8:40

pH: 8.8

Alkalinity: 79 mg/L

Water temperature: 19.8 °C

Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	8.9	J	pH	1	GE
		Specific conductance	200		μ S/cm	0	GE
		Turbidity	12		NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	203		μ g/L	2	GE
		Antimony	3.3		μ g/L	1	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	35		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	14,300	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,340		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	1.3		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	106		μ g/L	0	GE
		Iron	110		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 16B collected on 05/06/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	661		µg/L	0	GE
		Manganese	10		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	460		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	15,700		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	15,500	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	22,200		µg/L	0	GE
		Sulfate	6,230		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	35		µg/L	2	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	137,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	5.8		µg/L	0	GE
		Total phosphates (as P)	167		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	24		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	9.9E+00 ± 1.9E+00		pCi/L	0	GE
		Nonvolatile beta	1.5E+01 ± 2.5E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Total activity	4.6E+04 ± 1.8E+03		pCi/L	0	EM
■		Tritium	4.2E+01 ± 1.0E+00		pCi/mL	2	GE
■		Tritium	4.0E+01 ± 1.0E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 16D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75751.4	33.285013 °N	237.3-217.3 ft msl	304.6 ft msl	4" PVC	S	Water table (IIB ₂)
E56202.1	81.665954 °W					

FIELD MEASUREMENTS

Sample date: 05/06/93
 Depth to water: 71.77 ft (21.88 m) below TOC
 Water elevation: 232.83 ft (70.97 m) msl
 Sp. conductance: 277 μ S/cm
 Water evacuated before sampling: 7 gal
 The well went dry during purging.

Time: 9:04
 pH: 9.5
 Alkalinity: 115 mg/L
 Water temperature: 19.9 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	9.3	J	pH	1	GE
		Specific conductance	234		μ S/cm	0	GE
		Turbidity	14		NTU	0	GE
		Acetophenone	<1.0		μ g/L	0	GE
		Aluminum	194		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	39		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	6,140	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,140		μ g/L	0	GE
		Chloride	1,110		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 16D collected on 05/06/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	198		µg/L	1	GE
		Lead	21		µg/L	2	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	498		µg/L	0	GE
		Manganese	17		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	7.5		µg/L	0	GE
		Nitrate-nitrite as nitrogen	900		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	13,800		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,500	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	45,500		µg/L	0	GE
		Sulfate	2,780		µg/L	0	GE
		Sulfate	2,750		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	30		µg/L	2	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	159,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	20		µg/L	0	GE
		Total organic halogens	21		µg/L	0	GE
		Total phosphates (as P)	229		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	19		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	47		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	3.0E+00 ± 1.9E+00		pCi/L	0	GE
		Nonvolatile beta	6.7E+00 ± 1.6E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.2E+00 ± 5.0E-01		pCi/L	0	GE
		Total activity	1.4E+06 ± 2.8E+04		pCi/L	0	EM
■		Tritium	1.3E+03 ± 5.5E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 17DR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75604.0	33.285022 °N	236.9-216.9 ft msl	299.2 ft msl	4" PVC	S	Water table (IIB ₂)
E56407.2	81.665128 °W					

FIELD MEASUREMENTS

Sample date: 05/06/93
 Depth to water: 65.85 ft (20.07 m) below TOC
 Water elevation: 233.35 ft (71.13 m) msl
 Sp. conductance: 54 μ S/cm
 Water evacuated before sampling: 11 gal
 The well went dry during purging.

Time: 9:27
 pH: 6.5
 Alkalinity: 12 mg/L
 Water temperature: 19.6 °C
 Volumes purged: 1.0 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.7	J	pH	0	GE
		Specific conductance	38		μ S/cm	0	GE
		Specific conductance	38		μ S/cm	0	GE
		Turbidity	260		NTU	0	GE
		Turbidity	257		NTU	0	GE
		Acetophenone	< 10		μ g/L	0	GE
		Aluminum	77		μ g/L	2	GE
		Aluminum	84		μ g/L	2	GE
		Antimony	< 2.0		μ g/L	0	GE
		Antimony	< 2.0		μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Barium	11		μ g/L	0	GE
		Barium	11		μ g/L	0	GE
		Benzene	< 1.0		μ g/L	0	GE
		Bromodichloromethane	< 1.0		μ g/L	0	GE
		Bromoform	< 1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		μ g/L	0	GE
		Cadmium	< 2.0		μ g/L	0	GE
		Cadmium	< 2.0		μ g/L	0	GE
		Calcium	2,550	J2	μ g/L	0	GE
		Calcium	2,550	J2	μ g/L	0	GE
		Carbon tetrachloride	< 1.0		μ g/L	0	GE
		Chloride	1,050		μ g/L	0	GE
		Chlorobenzene	< 1.0		μ g/L	0	GE
		Chloroethane	< 1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		μ g/L	0	GE
		Chloroform	< 1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		μ g/L	0	GE
		Chromium	< 4.0		μ g/L	0	GE
		Chromium	< 4.0		μ g/L	0	GE
		Copper	< 4.0		μ g/L	0	GE
		Copper	< 4.0		μ g/L	0	GE
•		Cyanide	< 5.0	J6	μ g/L	0	GE
•		Cyanide	< 5.0	J	μ g/L	0	GE
		Dibromochloromethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethane	< 1.0		μ g/L	0	GE
		1,2-Dichloroethane	< 1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 17DR collected on 05/06/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	51		µg/L	0	GE
		Iron	52		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	223		µg/L	0	GE
		Magnesium	228		µg/L	0	GE
		Manganese	19		µg/L	0	GE
		Manganese	20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,090		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,090		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	994		µg/L	0	GE
		Potassium	1,070		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	7,500	J2	µg/L	0	GE
		Silica	7,540	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	5,150		µg/L	0	GE
		Sodium	5,200		µg/L	0	GE
		Sulfate	2,350		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	40,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	5.9		µg/L	0	GE
		Total phosphates (as P)	204		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 17DR collected on 05/06/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	16		µg/L	0	GE
		Zinc	16		µg/L	0	GE
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.7E+00 ± 5.0E-01		pCi/L	0	GE
		Total activity	1.4E+04 ± 1.4E+03		pCi/L	0	EM
		Tritium	1.2E+01 ± 6.0E-01		pCi/mL	1	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 18A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75599.9	33.285490 °N	109.5-99.5 ft msl	295.2 ft msl	4" PVC	S	U. Congaree (IIA)
E56699.7	81.664350 °W					

FIELD MEASUREMENTS

Sample date: 05/05/93

Time: 11:35

Depth to water: 133.24 ft (40.61 m) below TOC

pH: 7.1

Water elevation: 161.96 ft (49.37 m) msl

Alkalinity: 65 mg/L

Sp. conductance: 193 µS/cm

Water temperature: 20.1 °C

Water evacuated before sampling: 253 gal

Volumes purged: 6.2 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.9	J	pH	0	GE
		Specific conductance	165		µS/cm	0	GE
		Turbidity	< 0.10		NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	< 20		µg/L	0	GE
		Aluminum	< 20		µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	35		µg/L	0	GE
		Barium	35		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	32,400	J2	µg/L	0	GE
		Calcium	32,400	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	2,260		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 18A collected on 05/05/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.3		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	24		µg/L	0	GE
		Iron	25		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	1,020		µg/L	0	GE
		Magnesium	1,020		µg/L	0	GE
		Manganese	46		µg/L	1	GE
		Manganese	46		µg/L	1	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	< 50		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	1,100		µg/L	0	GE
		Potassium	1,040		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	34,400	J2	µg/L	0	GE
		Silica	34,400	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	2,470		µg/L	0	GE
		Sodium	2,480		µg/L	0	GE
		Sulfate	8,440		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	2.7		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	136,000	V	µg/L	0	GE
		Total dissolved solids	133,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 18A collected on 05/05/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	170		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

WELL BGO 18D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75600.0	33.285509 °N	239.6-219.6 ft msl	294.9 ft msl	4" PVC	S	Water table (IIB ₂)
E56711.2	81.664320 °W					

FIELD MEASUREMENTS

Sample date: 05/05/93

Depth to water: 62.07 ft (18.92 m) below TOC

Water elevation: 232.83 ft (70.97 m) msl

Sp. conductance: 31 µS/cm

Water evacuated before sampling: 177 gal

Time: 11:15

pH: 4.9

Alkalinity: 0 mg/L

Water temperature: 20.0 °C

Volumes purged: 20.4 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.1	J	pH	0	GE
		Specific conductance	21		µS/cm	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	40		µg/L	1	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	9.3		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 18D collected on 05/05/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Calcium	721	J2	µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	1,970		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.4		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	4.2		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	301		µg/L	0	GE
		Manganese	13		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,400		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	8,650	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,170		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	27,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 18D collected on 05/05/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	< 2.0		µg/L	0	GE
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Gross alpha	2.1E+00 ± 1.1E+00		pCi/L	0	GE
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.3E+00 ± 5.0E-01		pCi/L	0	GE
		Tritium	1.6E+01 ± 7.0E-01		pCi/mL	1	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 20D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N74962.2	33.284755 °N	236.3-216.3 ft msl	283.7 ft msl	4" PVC	S	Water table (IIB ₂)
E57113.8	81.662021 °W					

FIELD MEASUREMENTS

Sample date: 05/06/93
 Depth to water: 47.70 ft (14.54 m) below TOC
 Water elevation: 236.00 ft (71.93 m) msl
 Sp. conductance: 73 µS/cm
 Water evacuated before sampling: 10 gal
 The well went dry during purging.

Time: 11:08
 pH: 5.7
 Alkalinity: 15 mg/L
 Water temperature: 21.5 °C
 Volumes purged: 0.8 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	6.0	J	pH	0	GE
		Specific conductance	60		µS/cm	0	GE
		Turbidity	3.9		NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	< 20		µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	43		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	4,750	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	1,910		µg/L	0	GE
		Chloride	1,930		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 20D collected on 05/06/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	188		µg/L	1	GE
		Lead	14		µg/L	1	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,130		µg/L	0	GE
		Manganese	47		µg/L	1	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	5.6		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,730		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	891		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,700	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	5,170		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	54,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	118		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	37		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 20D collected on 05/06/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Radium, total alpha-emitting	1.3E+00 ± 5.0E-01		pCi/L	0	GE
		Tritium	1.8E+01 ± 7.0E-01		pCi/mL	1	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 21D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N74688.5	33.284732 °N	237.7-217.7 ft msl	285.4 ft msl	4" PVC	S	Water table (IIB ₂)
E57470.7	81.660549 °W					

FIELD MEASUREMENTS

Sample date: 05/06/93

Depth to water: 48.53 ft (14.79 m) below TOC

Water elevation: 236.87 ft (72.20 m) msl

Sp. conductance: 140 µS/cm

Water evacuated before sampling: 6 gal

The well went dry during purging.

Time: 10:21

pH: 6.6

Alkalinity: 30 mg/L

Water temperature: 21.2 °C

Volumes purged: 0.5 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	6.6	J	pH	0	GE
		Specific conductance	121		µS/cm	0	GE
		Turbidity	37		NTU	0	GE
		Acetophenone	< 10		µg/L	0	GE
		Aluminum	46		µg/L	1	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	71		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	8,640	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	6,920		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 21D collected on 05/06/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	174		µg/L	1	GE
		Lead	21		µg/L	2	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	621		µg/L	0	GE
		Manganese	34		µg/L	1	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	3,950		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	6,830		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	7,490	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	10,900		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	14		µg/L	1	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	85,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	10		µg/L	0	GE
		Total phosphates (as P)	101		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	17		µg/L	0	GE
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Gross alpha	2.4E+00 ± 1.3E+00		pCi/L	0	GE
		Nonvolatile beta	4.7E+00 ± 1.4E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.1E+00 ± 6.0E-01		pCi/L	0	GE
		Radium, total alpha-emitting	1.8E+00 ± 6.0E-01		pCi/L	0	GE
■		Tritium	3.1E+01 ± 9.0E-01		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 22DR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N74471.5	33.284841 °N	239.2-219.2 ft msl	286.1 ft msl	4" PVC	S	Water table (IIB ₂)
E57831.5	81.659178 °W					

FIELD MEASUREMENTS

Sample date: 05/06/93
 Depth to water: 47.63 ft (14.52 m) below TOC
 Water elevation: 238.47 ft (72.69 m) msl
 Sp. conductance: 30 μ S/cm
 Water evacuated before sampling: 18 gal
 The well went dry during purging.

Time: 9:54
 pH: 5.8
 Alkalinity: 2 mg/L
 Water temperature: 21.3 °C
 Volumes purged: 1.4 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	6.8	J	pH	0	GE
		Specific conductance	30		μ S/cm	0	GE
		Turbidity	270		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	188		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	9.5		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	2,130	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,100		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 22DR collected on 05/06/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Fluoride	< 100		µg/L	0	GE
		Iron	108		µg/L	0	GE
		Lead	8.6		µg/L	1	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	658		µg/L	0	GE
		Manganese	9.6		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	5.5		µg/L	0	GE
		Nitrate-nitrite as nitrogen	930		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	1,050		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	6,520	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	2,020		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	2.8		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	33,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	14		µg/L	0	GE
		Total phosphates (as P)	96		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Zinc	22		µg/L	0	GE
		Carbon-14	< 2.0E+02		pCi/L	0	GP
		Gross alpha	1.2E+01 ± 1.9E+00		pCi/L	1	GE
		Gross alpha	1.1E+01 ± 1.9E+00		pCi/L	1	GE
		Nonvolatile beta	7.2E+00 ± 1.4E+00		pCi/L	0	GE
		Nonvolatile beta	9.8E+00 ± 1.5E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.0E+00 ± 4.0E-01		pCi/L	0	GE
		Total activity	5.7E+04 ± 2.0E+03		pCi/L	0	EM
■		Tritium	5.0E+01 ± 1.1E+00		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 23D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N74238.1	33.284817 °N	242.0-222.0 ft msl	289.2 ft msl	4" PVC	S	Water table (IIB ₂)
E58133.0	81.657930 °W					

FIELD MEASUREMENTS

Sample date: 05/05/93
 Depth to water: 51.20 ft (15.61 m) below TOC
 Water elevation: 238.00 ft (72.54 m) msl
 Sp. conductance: 42 μ S/cm
 Water evacuated before sampling: 54 gal

Time: 12:37
 pH: 6.2
 Alkalinity: 1 mg/L
 Water temperature: 21.9 °C
 Volumes purged: 5.1 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.9	J	pH	0	GE
•		pH	6.0	J	pH	0	GE
		Specific conductance	30		μ S/cm	0	GE
		Turbidity	<0.10		NTU	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	7.0		μ g/L	0	GE
		Barium	7.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	1,320		μ g/L	0	GE
		Calcium	1,310		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	962		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 23D collected on 05/05/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	19		µg/L	0	GE
		Copper	19		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	4.2		µg/L	0	GE
		Iron	<4.0		µg/L	0	GE
		Lead	4.5		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	346		µg/L	0	GE
		Magnesium	344		µg/L	0	GE
		Manganese	6.5		µg/L	0	GE
		Manganese	6.7		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,600		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	886		µg/L	0	GE
		Potassium	1,000		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	6,400		µg/L	0	GE
		Silica	6,390		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,280		µg/L	0	GE
		Sodium	4,270		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 23D collected on 05/05/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	3.4		µg/L	0	GE
		Tin	2.2		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	30,000	V	µg/L	0	GE
		Total dissolved solids	34,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Zinc	24		µg/L	0	GE
		Zinc	24		µg/L	0	GE
		Carbon-14	<2.0E+02		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
■		Tritium	2.2E+01 ± 7.0E-01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

WELL BGO 24D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N74012.4	33.284816 °N	241.0-221.0 ft msl	293.2 ft msl	4" PVC	S	Water table (IIB ₂)
E58438.8	81.656687 °W					

FIELD MEASUREMENTS

Sample date: 05/05/93

Time: 11:55

Depth to water: 53.87 ft (16.42 m) below TOC

Water elevation: 239.33 ft (72.95 m) msl

No water evacuated before sampling.

Inaccessibility or pump failure prevented sample collection.

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 25A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76158.5 E55668.1	33.285042 °N 81.668151 °W	114.1-104.1 ft msl	296.5 ft msl	4" PVC	S	U. Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 05/04/93
 Depth to water: 134.39 ft (40.96 m) below TOC
 Water elevation: 162.11 ft (49.41 m) msl
 Sp. conductance: 248 μ S/cm
 Water evacuated before sampling: 18 gal
 The well went dry during purging.

Time: 12:11
 pH: 7.4
 Alkalinity: 89 mg/L
 Water temperature: 20.2 °C
 Volumes purged: 0.5 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.4	J	pH	0	GE
		Specific conductance	218		μ S/cm	0	GE
		Turbidity	0.91		NTU	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	24		μ g/L	0	GE
		Aluminum	24		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	39		μ g/L	0	GE
		Barium	39		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	50,400	J2	μ g/L	0	GE
		Calcium	50,500	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	11,400		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 25A collected on 05/04/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chromium	<4.0		µg/L	0	GE
		Copper	10		µg/L	0	GE
		Copper	10		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE
		Iron	141		µg/L	0	GE
		Iron	142		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	814		µg/L	0	GE
		Magnesium	817		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	766		µg/L	0	GE
		Potassium	830		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	46,600	J2	µg/L	0	GE
		Silica	46,700	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,330		µg/L	0	GE
		Sodium	2,330		µg/L	0	GE
		Sulfate	9,400		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE

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WELL BGO 25A collected on 05/04/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	3.1		µg/L	0	GE
		Tin	3.8		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
•		Total dissolved solids	194,000	JV	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.0E+00 ± 5.0E-01		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 26D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76128.0	33.283910 °N	233.5-213.4 ft msl	285.5 ft msl	4" PVC	S	Water table (IIB ₂)
E55015.2	81.669811 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 54.86 ft (16.72 m) below TOC
 Water elevation: 230.64 ft (70.30 m) msl
 Sp. conductance: 43 μ S/cm
 Water evacuated before sampling: 10 gal
 The well went dry during purging.

Time: 9:13
 pH: 5.3
 Alkalinity: 1 mg/L
 Water temperature: 18.3 °C
 Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.7	J	pH	0	GE
		Specific conductance	38		μ S/cm	0	GE
		Specific conductance	38		μ S/cm	0	GE
		Turbidity	25		NTU	0	GE
		Acetophenone	<1.0	J1	μ g/L	0	GE
		Aluminum	118		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	18		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	2,480	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,340		μ g/L	0	GE
		Chloride	2,320		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	72		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 26D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Fluoride	< 100	V	µg/L	0	GE
		Iron	70		µg/L	0	GE
		Lead	20		µg/L	2	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	604		µg/L	0	GE
		Manganese	9.1		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,460		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	547		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	8,050		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	2,550		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	28,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	60		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		Tributyl phosphate	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	1.1		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	4.8E+00 ± 2.2E+00		pCi/L	0	GE
		Gross alpha	4.0E+00 ± 1.9E+00		pCi/L	0	GE
		Nonvolatile beta	4.1E+00 ± 1.7E+00		pCi/L	0	GE
		Nonvolatile beta	3.0E+00 ± 1.7E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.6E+00 ± 5.0E-01		pCi/L	0	GE
		Tritium	6.8E+00 ± 5.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 27C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75666.3	33.282328 °N	163.9-154.9 ft msl	276 ft msl	4" PVC	S	McBean (IIB ₁)
E54671.4	81.669820 °W					

FIELD MEASUREMENTS

Sample date: 05/10/93
 Depth to water: 52.56 ft (16.02 m) below TOC
 Water elevation: 223.44 ft (68.11 m) msl
 Sp. conductance: 142 μ S/cm
 Water evacuated before sampling: 194 gal

Time: 12:47
 pH: 7.9
 Alkalinity: 22 mg/L
 Water temperature: 20.0 °C
 Volumes purged: 4.3 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.3	J	pH	0	GE
		Specific conductance	111		μ S/cm	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	3.2		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	10000	J2	μ g/L	0	GE
		Carbon tetrachloride			μ g/L	0	GE
		Chloride			μ g/L	0	GE
		Chlorobenzene			μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	4.7		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.9		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	113	V	μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 27C collected on 05/10/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Iron	9.8		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	285		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,030		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	9,200		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	1,720		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	72,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	9.8		µg/L	0	GE
		Total phosphates (as P)	270		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	25		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
■		Tritium	5.8E+01 ± 1.2E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 27D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75677.3	33.282366 °N	229.3-209.3 ft msl	276.3 ft msl	4" PVC	S	Water table (IIB ₂)
E54680.2	81.669818 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 45.62 ft (13.91 m) below TOC
 Water elevation: 230.68 ft (70.31 m) msl
 Sp. conductance: 40 μ S/cm
 Water evacuated before sampling: 15 gal
 The well went dry during purging.

Time: 9:41
 pH: 5.0
 Alkalinity: 0 mg/L
 Water temperature: 19.7 °C
 Volumes purged: 1.1 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.4	J	pH	0	GE
		Specific conductance	28		μ S/cm	0	GE
		Turbidity	31		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	815		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	18		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	1,280	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,740		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	100		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.7		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100	V	μ g/L	0	GE
		Iron	373		μ g/L	2	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 27D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
■		Lead	38		µg/L	2	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,180		µg/L	0	GE
		Manganese	33		µg/L	1	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	5.4		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,080		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	730		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	7,210		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	1,870		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	26,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	18		µg/L	0	GE
		Total phosphates (as P)	90		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.0E+00 ± 6.0E-01		pCi/L	0	GE
■		Tritium	1.1E+02 ± 1.6E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 28D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75348.3	33.281276 °N	230.1-210.1 ft msl	277.4 ft msl	4" PVC	S	Water table (IIB ₂)
E54457.9	81.669764 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93

Time: 10:00

Depth to water: 47.84 ft (14.58 m) below TOC

pH: 6.5

Water elevation: 229.56 ft (69.97 m) msl

Alkalinity: 44 mg/L

Sp. conductance: 186 μ S/cm

Water temperature: 20.6 °C

Water evacuated before sampling: 14 gal

Volumes purged: 1.1 well volumes

The well went dry during purging.

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.0	J	pH	0	GE
•		pH	7.0	J	pH	0	GE
		Specific conductance	150		μ S/cm	0	GE
•		Turbidity	49	J	NTU	0	GE
•		Turbidity	49	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	431		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	101		μ g/L	0	GE
		Benzene	<10		μ g/L	0	GE
		Bromodichloromethane	<10		μ g/L	0	GE
		Bromoform	<10		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<10		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	25,400		μ g/L	0	GE
		Calcium	27,600		μ g/L	0	GE
		Carbon tetrachloride	<10		μ g/L	0	GE
		Chloride	6,430		μ g/L	0	GE
		Chlorobenzene	<10		μ g/L	0	GE
		Chloroethane	<10		μ g/L	0	GE
■		Chloroethene (Vinyl chloride)	107		μ g/L	2	GE
		2-Chloroethyl vinyl ether	<10		μ g/L	0	GE
		Chloroform	16		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<10		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	9.2		μ g/L	0	GE
		Cyanide	<10		μ g/L	0	GE
		Dibromochloromethane	<10		μ g/L	0	GE
		1,1-Dichloroethane	27		μ g/L	2	GE
		1,2-Dichloroethane	<10		μ g/L	0	GE
		1,1-Dichloroethylene	<10		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<10		μ g/L	0	GE
■		Dichloromethane (Methylene chloride)	81		μ g/L	2	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<10		μ g/L	0	GE
		cis-1,3-Dichloropropene	<10		μ g/L	0	GE
		trans-1,3-Dichloropropene	<10		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 28D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<10		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	563	J2	µg/L	2	GE
		Lead	3.1		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	747		µg/L	0	GE
		Manganese	57		µg/L	2	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	9.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,150		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	1,670		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,290		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	9,110		µg/L	0	GE
		Sulfate	4,410		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<10		µg/L	0	GE
		Tetrachloroethylene	<10		µg/L	0	GE
		Tin	2.4		µg/L	0	GE
		Toluene	<10		µg/L	0	GE
		Total dissolved solids	105,000		µg/L	0	GE
		Total dissolved solids	108,000		µg/L	0	GE
		Total organic carbon	1,390		µg/L	0	GE
		Total organic carbon	1,420		µg/L	0	GE
		Total organic halogens	662		µg/L	2	GE
		Total organic halogens	564		µg/L	2	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<10		µg/L	0	GE
		1,1,2-Trichloroethane	<10		µg/L	0	GE
	■	Trichloroethylene	339		µg/L	2	GE
		Trichlorofluoromethane	<10		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<20		µg/L	0	GE
	■	Gross alpha	1.3E+02 ± 1.0E+01		pCi/L	2	GE
		Gross alpha	3.9E+00 ± 1.6E+01		pCi/L	0	GE
		Nonvolatile beta	3.0E+01 ± 3.0E+00		pCi/L	1	GE
		Radium, total alpha-emitting	2.8E+00 ± 1.0E+00		pCi/L	0	GE
		Total activity	1.1E+08 ± 7.3E+05		pCi/L	0	EM
	■	Tritium	9.9E+04 ± 4.7E+01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 29A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N75560.0	33.281166 °N	112.5-102.5 ft msl	264.2 ft msl	4" PVC	S	U. Congaree (IIA)
E54103.5	81.671108 °W					

FIELD MEASUREMENTS

Sample date: 05/07/93

Time: 10:35

Depth to water: 103.65 ft (31.59 m) below TOC

pH: 10.9

Water elevation: 160.55 ft (48.94 m) msl

Alkalinity: 48 mg/L

Sp. conductance: 170 μ S/cm

Water temperature: 19.9 °C

Water evacuated before sampling: 38 gal

Volumes purged: 1.0 well volumes

The well went dry during purging.

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	10	J	pH	2	GE
		Specific conductance	122		μ S/cm	0	GE
		Specific conductance	122		μ S/cm	0	GE
•		Turbidity	2.5	J	NTU	0	GE
•		Turbidity	2.3	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	71		μ g/L	2	GE
		Antimony	<2.0	J1	μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	27		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	22,500		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,640		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 29A collected on 05/07/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Fluoride	< 100		µg/L	0	GE
		Iron	10	J2	µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	256		µg/L	0	GE
		Manganese	2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	870		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	< 500		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	14,700	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	3,840		µg/L	0	GE
		Sulfate	1,340		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	82,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	110		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		Tributyl phosphate	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	2.2		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	2.3E+00 ± 1.3E+00		pCi/L	0	GE
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Tritium	7.2E+00 ± 5.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 29C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75577.8 E54099.1	33.281198 °N 81.671154 °W	186.8-176.8 ft msl	264.8 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 05/07/93
 Depth to water: 39.07 ft (11.91 m) below TOC
 Water elevation: 225.73 ft (68.80 m) msl
 Sp. conductance: 55 μ S/cm
 Water evacuated before sampling: 22 gal
 The well went dry during purging.

Time: 10:16
 pH: 5.6
 Alkalinity: 2 mg/L
 Water temperature: 20.4 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.6	J	pH	0	GE
•		pH	6.6	J	pH	0	GE
		Specific conductance	41		μ S/cm	0	GE
•		Turbidity	4.2	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	125		μ g/L	2	GE
		Antimony	<2.0	J1	μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	37		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	5,560		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,040		μ g/L	0	GE
		Chloride	2,050		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 29C collected on 05/07/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Fluoride	<100		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	50	J2	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	613		µg/L	0	GE
		Manganese	6.2		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,330		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,310		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	728		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	8,180	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,890		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	33,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	60		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	1.4		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.0E+00 ± 5.0E-01		pCi/L	0	GE
■		Tritium	9.6E+01 ± 1.5E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 29D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75592.5	33.281231 °N	228.5-208.5 ft msl	265.5 ft msl	4" PVC	S	Water table (IIB ₂)
E54099.4	81.671182 °W					

FIELD MEASUREMENTS

Sample date: 05/07/93

Depth to water: 36.10 ft (11.00 m) below TOC

Water elevation: 229.40 ft (69.92 m) msl

Sp. conductance: 65 μ S/cm

Water evacuated before sampling: 13 gal

The well went dry during purging.

Time: 10:00

pH: 4.9

Alkalinity: 0 mg/L

Water temperature: 19.4 °C

Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.5	J	pH	0	GE
		Specific conductance	51		μ S/cm	0	GE
•		Turbidity	45	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	375		μ g/L	2	GE
		Aluminum	338		μ g/L	2	GE
		Antimony	<2.0	J1	μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	28		μ g/L	0	GE
		Barium	28		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	3,620		μ g/L	0	GE
		Calcium	3,620		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,140		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 29D collected on 05/07/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Copper	4.6		µg/L	0	GE
		Copper	4.3		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	281	J2	µg/L	1	GE
		Iron	257	J2	µg/L	1	GE
		Lead	4.9		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	933		µg/L	0	GE
		Magnesium	928		µg/L	0	GE
		Manganese	58		µg/L	2	GE
		Manganese	58		µg/L	2	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	10		µg/L	0	GE
		Nickel	11		µg/L	0	GE
		Nitrate-nitrite as nitrogen	600		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	536		µg/L	0	GE
		Potassium	< 500		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	9,490	J2	µg/L	0	GE
		Silica	9,390	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	3,750		µg/L	0	GE
		Sodium	3,750		µg/L	0	GE
		Sulfate	11,400		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	4.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 29D collected on 05/07/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	35,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	5.3		µg/L	0	GE
		Total phosphates (as P)	100		µg/L	0	GE
		Total phosphates (as P)	100		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	5.4E+00 ± 1.9E+00		pCi/L	0	GE
		Nonvolatile beta	4.0E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.8E+00 ± 9.0E-01		pCi/L	0	GE
		Tritium	8.7E+00 ± 5.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

WELL BGO 30C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75181.0 E54512.3	33.280995 °N 81.669296 °W	188.4-178.4 ft msl	274.5 ft msl	4" PVC	S	McBean (IIB ₁)

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 52.45 ft (15.99 m) below TOC
 Water elevation: 222.05 ft (67.68 m) msl
 Sp. conductance: 55 µS/cm
 Water evacuated before sampling: 29 gal
 The well went dry during purging.

Time: 10:25
 pH: 6.3
 Alkalinity: 13 mg/L
 Water temperature: 21.8 °C
 Volumes purged: 1.0 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.1	J	pH	0	GE
		Specific conductance	50		µS/cm	0	GE
		Turbidity	37		NTU	0	GE
		Acetophenone	<10		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 30C collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Aluminum	908		µg/L	2	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	21		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	3,460	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	2,080		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30	J6	µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	104	V	µg/L	0	GE
		Iron	452		µg/L	2	GE
		Lead	3.5		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	257		µg/L	0	GE
		Manganese	19		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	500		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	2,070		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	10,700	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	4,270		µg/L	0	GE
		Sulfate	1,520		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	3.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

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WELL BGO 30C collected on 05/11/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Total dissolved solids	36,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	220		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
•		2,4,5-TP (Silvex)	<0.090	J6	µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
	■	Trichloroethylene	11		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	2.9E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Total activity	4.1E+05 ± 4.6E+03		pCi/L	0	EM
	■	Tritium	3.9E+02 ± 3.0E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

WELL BGO 30D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N75187.7	33.280988 °N	227.8-207.8 ft msl	274.8 ft msl	4" PVC	S	Water table (IIB ₂)
E54499.2	81.669343 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 45.61 ft (13.90 m) below TOC
 Water elevation: 229.19 ft (69.86 m) msl
 Sp. conductance: 237 µS/cm
 Water evacuated before sampling: 15 gal
 The well went dry during purging.

Time: 10:41
 pH: 7.1
 Alkalinity: 54 mg/L
 Water temperature: 21.9 °C
 Volumes purged: 1.1 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	7.5	J	pH	0	GE
		Specific conductance	200		µS/cm	0	GE
•		Turbidity	2.9	J	NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	448		µg/L	2	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	166		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 30D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	ab
		Calcium	48,300		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	9,920		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	19		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	5.4		µg/L	0	GE
		Copper	5.0		µg/L	0	GE
		Cyanide	< 10		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	55		µg/L	2	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
■		1,1-Dichloroethylene	12		µg/L	2	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	4.8		µg/L	1	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	137	J2	µg/L	0	GE
		Lead	33		µg/L	2	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	2,220		µg/L	0	GE
		Manganese	13		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	4.8		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,140		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	516		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	9,210		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	9,230		µg/L	0	GE
		Sulfate	2,600		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	3.6		µg/L	1	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	142,000		µg/L	0	GE
		Total organic carbon	1,320		µg/L	0	GE
		Total organic halogens	366		µg/L	2	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		Tributyl phosphate	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
■		Trichloroethylene	51		µg/L	2	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 30D collected on 05/11/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	2.1		µg/L	0	GE
■		Gross alpha	3.5E+01 ± 5.2E+00		pCi/L	2	GE
■		Nonvolatile beta	5.3E+01 ± 3.9E+00		pCi/L	2	GE
		Nonvolatile beta	9.8E+00 ± 3.5E+00		pCi/L	0	GE
		Radium, total alpha-emitting	4.2E+00 ± 1.3E+00		pCi/L	0	GE
		Total activity	2.2E+07 ± 2.4E+05		pCi/L	0	EM
■		Tritium	2.2E+04 ± 2.2E+01		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 31C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N74978.0	33.281042 °N	186.4-176.4 ft msl	273.1 ft msl	4" PVC	S	McBean (IIB ₁)
E54816.2	81.668101 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 44.15 ft (13.46 m) below TOC
 Water elevation: 228.95 ft (69.78 m) msl
 Sp. conductance: 30 µS/cm
 Water evacuated before sampling: 35 gal
 The well went dry during purging.

Time: 11:26
 pH: 5.4
 Alkalinity: 1 mg/L
 Water temperature: 20.9 °C
 Volumes purged: 1.0 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.8	J	pH	0	GE
		Specific conductance	28		µS/cm	0	GE
•		Turbidity	4.2	J	NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	86		µg/L	2	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	7.4		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	1,500		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	1,750		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 31C collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Copper	6.8		µg/L	0	GE
		Cyanide	<10		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
■		Dichloromethane (Methylene chloride)	5.4		µg/L	2	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	33	J2	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	488		µg/L	0	GE
		Manganese	10		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,150		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,730		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	1,820		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	2.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	26,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	2.8		µg/L	1	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	3.3E+00 ± 1.6E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 31C collected on 05/11/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Radium, total alpha-emitting	1.5E+00 ± 8.0E-01		pCi/L	0	GE
		Total activity	2.4E+06 ± 3.6E+04		pCi/L	0	EM
	■	Tritium	2.5E+03 ± 7.5E+00		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	1.6E+00 ± 5.6E-01		pCi/L	0	GP

WELL BGO 31D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N74985.3	33.281099 °N	231.1-211.1 ft msl	273.7 ft msl	4" PVC	S	Water table (IIB ₂)
E54841.7	81.668048 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93

Depth to water: 43.48 ft (13.25 m) below TOC

Water elevation: 230.22 ft (70.17 m) msl

Sp. conductance: 39 µS/cm

Water evacuated before sampling: 16 gal

The well went dry during purging.

Time: 11:01

pH: 4.8

Alkalinity: 0 mg/L

Water temperature: 22.1 °C

Volumes purged: 1.3 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	4.9	J	pH	0	GE
		Specific conductance	30		µS/cm	0	GE
		Turbidity	9.6		NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	64		µg/L	2	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	6.7		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	425	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	3,470		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	6.2		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 31D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	< 0.30	J6	µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100	V	µg/L	0	GE
		Fluoride	< 100	V	µg/L	0	GE
		Iron	97		µg/L	0	GE
		Lead	3.8		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	1,500		µg/L	0	GE
		Manganese	6.7		µg/L	0	GE
		Mercury	0.24		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,250		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	< 500		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	7,020		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	1,330		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
•		Total dissolved solids	29,000	JV6	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	28		µg/L	1	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
•		2,4,5-TP (Silvex)	< 0.090	J6	µg/L	0	GE
		Tributyl phosphate	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	2.1E+00 ± 1.1E+00		pCi/L	0	GE
		Nonvolatile beta	4.7E+00 ± 1.5E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.1E+00 ± 6.0E-01		pCi/L	0	GE
■		Tritium	2.2E+01 ± 8.0E-01		pCi/mL	2	GE
		Uranium-233/234	1.8E+00 ± 5.7E-01		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	1.8E+00 ± 5.7E-01		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 32D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N74727.0	33.281195 °N	234.5-214.5 ft msl	281.7 ft msl	4" PVC	S	Water table (IIB ₂)
E55250.2	81.666471 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 50.64 ft (15.44 m) below TOC
 Water elevation: 231.06 ft (70.43 m) msl
 Sp. conductance: 78 µS/cm
 Water evacuated before sampling: 10 gal
 The well went dry during purging.

Time: 11:51
 pH: 4.7
 Alkalinity: 0 mg/L
 Water temperature: 22.5 °C
 Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.8	J	pH	0	GE
		Specific conductance	70		µS/cm	0	GE
		Turbidity	34		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	483		µg/L	2	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	27		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	761	J2	µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	4,090		µg/L	0	GE
		Chloride	4,120		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	49		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	<0.30	J6	µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 32D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	207		µg/L	1	GE
		Lead	6.1		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,430		µg/L	0	GE
		Manganese	9.7		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	5,500		µg/L	1	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	988		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	7,610	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	7,980		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	1.8		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	45,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	60		µg/L	0	GE
		Total phosphates (as P)	60		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
●		2,4,5-TP (Silvex)	<0.090	J6	µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	2.4E+00 ± 9.3E-01		pCi/L	0	GE
		Gross alpha	4.6E+00 ± 1.3E+00		pCi/L	0	GE
		Nonvolatile beta	2.8E+00 ± 1.2E+00		pCi/L	0	GE
		Nonvolatile beta	4.2E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	4.2E+00 ± 1.2E+00		pCi/L	0	GE
		Total activity	2.2E+05 ± 3.4E+03		pCi/L	0	EM
■		Tritium	1.5E+02 ± 3.0E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 33C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N74479.7	33.281351 °N	187.8-177.8 ft msl	279.4 ft msl	4" PVC	S	McBean (IIB ₁)
E55681.4	81.664855 °W					

FIELD MEASUREMENTS

Sample date: 05/10/93
 Depth to water: 51.33 ft (15.65 m) below TOC
 Water elevation: 228.07 ft (69.52 m) msl
 Sp. conductance: 60 μ S/cm
 Water evacuated before sampling: 172 gal

Time: 14:04
 pH: 5.7
 Alkalinity: 7 mg/L
 Water temperature: 20.0 °C
 Volumes purged: 5.2 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.8	J	pH	0	GE
•		pH	5.7	J	pH	0	GE
		Specific conductance	42		μ S/cm	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	72		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	12		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	4,680	J2	μ g/L	0	GE
		Carbon tetrachloride	1.3		μ g/L	0	GE
		Chloride	5,420		μ g/L	0	GE
		Chloride	5,520		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	13		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<10		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
■		Dichloromethane (Methylene chloride)	5.1		μ g/L	2	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 33C collected on 05/10/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	<4.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	673		µg/L	0	GE
		Manganese	29		µg/L	1	GE
		Mercury	1.7		µg/L	1	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	5.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,270		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	10,700	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	3,350		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
■		Tetrachloroethylene	5.9		µg/L	2	GE
		Tin	3.6		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	33,000	V	µg/L	0	GE
		Total dissolved solids	34,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	137		µg/L	2	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	27		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	2.0E+00 ± 1.4E+00		pCi/L	0	GE
		Nonvolatile beta	5.1E+00 ± 1.6E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.2E+00 ± 7.0E-01		pCi/L	0	GE
		Total activity	7.6E+06 ± 6.2E+04		pCi/L	0	EM
■		Tritium	7.2E+03 ± 1.3E+01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 33D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N74468.7 E55695.4	33.281350 °N 81.664797 °W	233.1-213.1 ft msl	280.3 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/11/93

Depth to water: 46.23 ft (14.09 m) below TOC

Water elevation: 234.07 ft (71.35 m) msl

Sp. conductance: 71 μ S/cm

Water evacuated before sampling: 12 gal

The well went dry during purging.

Time: 12:12

pH: 4.9

Alkalinity: 0 mg/L

Water temperature: 21.5 °C

Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.1	J	pH	0	GE
		Specific conductance	58		μ S/cm	0	GE
		Turbidity	28		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	127		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	17		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	1,310	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	8,360		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	14		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 33D collected on 05/11/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE
		Iron	65		µg/L	0	GE
		Lead	4.2		µg/L	0	GE
		Lead	4.4		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,650		µg/L	0	GE
		Manganese	2.8		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	3,300		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	1,610		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	5,380		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	5,470		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	5.6		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	43,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 33D collected on 05/11/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	2.3E+00 ± 1.2E+00		pCi/L	0	GE
		Nonvolatile beta	2.2E+00 ± 1.2E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.6E+00 ± 5.0E-01		pCi/L	0	GE
		Tritium	1.8E+01 ± 7.0E-01		pCi/mL	1	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

WELL BGO 34D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N74228.8	33.281451 °N	232.7-212.7 ft msl	274.9 ft msl	4" PVC	S	Water table (IIB ₂)
E56082.6	81.663311 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 37.92 ft (11.56 m) below TOC
 Water elevation: 236.98 ft (72.23 m) msl
 Sp. conductance: 99 µS/cm
 Water evacuated before sampling: 14 gal
 The well went dry during purging.

Time: 12:48
 pH: 7.3
 Alkalinity: 15 mg/L
 Water temperature: 21.5 °C
 Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	7.8	J	pH	0	GE
		Specific conductance	90		µS/cm	0	GE
		Turbidity	3.3		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	743		µg/L	2	GE
		Aluminum	775		µg/L	2	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	62		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	20,800	J2	µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	3,280		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 34D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE
		Iron	50		µg/L	0	GE
		Lead	4.6		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,210		µg/L	0	GE
		Manganese	3.5		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	770		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	7,150		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,230		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	52,000	V	µg/L	0	GE
		Total organic carbon	1,400		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 34D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.6E+00 ± 5.0E-01		pCi/L	0	GE
■		Tritium	2.3E+01 ± 8.0E-01		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 35C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73953.9	33.281598 °N	171.9-161.9 ft msl	273.4 ft msl	4" PVC	S	McBean (IIB ₁)
E56545.7	81.661558 °W					

FIELD MEASUREMENTS

Sample date: 05/10/93
 Depth to water: 41.95 ft (12.79 m) below TOC
 Water elevation: 231.45 ft (70.55 m) msl
 Sp. conductance: 70 µS/cm
 Water evacuated before sampling: 176 gal

Time: 15:04
 pH: 7.4
 Alkalinity: 17 mg/L
 Water temperature: 20.0 °C
 Volumes purged: 3.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.2	J	pH	0	GE
•		pH	7.2	J	pH	0	GE
		Specific conductance	55		µS/cm	0	GE
		Turbidity	< 0.10		NTU	0	GE
		Turbidity	< 0.10		NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	99		µg/L	2	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	23		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	7,650	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	1,730		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 35C collected on 05/10/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.1		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.6		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE
		Iron	<4.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	299		µg/L	0	GE
		Manganese	5.7		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,160		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	9,340		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,050		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 35C collected on 05/10/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	41,000	V	µg/L	0	GE
		Total dissolved solids	41,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	4.6E+00 ± 4.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

WELL BGO 35D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N73946.0	33.281599 °N	239.4-219.4 ft msl	273.5 ft msl	4" PVC	S	Water table (IIB ₂)
E56556.5	81.661514 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93

Depth to water: 35.64 ft (10.86 m) below TOC

Water elevation: 237.86 ft (72.50 m) msl

Sp. conductance: 39 µS/cm

Water evacuated before sampling: 15 gal

The well went dry during purging.

Time: 13:11

pH: 4.8

Alkalinity: 0 mg/L

Water temperature: 21.5 °C

Volumes purged: 1.2 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	4.9	J	pH	0	GE
		Specific conductance	29		µS/cm	0	GE
		Turbidity	13		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	170		µg/L	2	GE
		Aluminum	169		µg/L	2	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 35D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	15		µg/L	0	GE
		Barium	15		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	159	J2	µg/L	0	GE
		Calcium	159	J2	µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	2,600		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	19		µg/L	0	GE
		Copper	18		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE
		Iron	70		µg/L	0	GE
		Iron	70		µg/L	0	GE
		Lead	3.5		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	381		µg/L	0	GE
		Magnesium	380		µg/L	0	GE
		Manganese	2.7		µg/L	0	GE
		Manganese	2.6		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,180		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,200		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Potassium	<500		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 35D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Selenium	<2.0		µg/L	0	GE
		Silica	7,560		µg/L	0	GE
		Silica	7,560		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,500		µg/L	0	GE
		Sodium	4,510		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	26,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.4E+00 ± 5.0E-01		pCi/L	0	GE
■		Tritium	6.8E+01 ± 1.3E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 36D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73743.8	33.281692 °N	243.3-223.3 ft msl	275.4 ft msl	4" PVC	S	Water table (IIB ₂)
E56888.1	81.660248 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 34.68 ft (10.57 m) below TOC
 Water elevation: 240.72 ft (73.37 m) msl
 Sp. conductance: 33 μ S/cm
 Water evacuated before sampling: 10 gal
 The well went dry during purging.

Time: 13:40
 pH: 4.9
 Alkalinity: 0 mg/L
 Water temperature: 21.7 °C
 Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.1	J	pH	0	GE
		Specific conductance	25		μ S/cm	0	GE
		Turbidity	15		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	306		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	15		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	92	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	3,440		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	32		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 36D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	<0.30	J6	µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE
		Iron	127		µg/L	0	GE
		Lead	13		µg/L	1	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	404		µg/L	0	GE
		Manganese	10		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,170		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	6,350		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	3,600		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
•		Total dissolved solids	33,000	JV6	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
•		2,4,5-TP (Silvex)	<0.090	J6	µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 36D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	2.3E+00 ± 1.2E+00		pCi/L	0	GE
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
■		Tritium	2.6E+01 ± 8.0E-01		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 37D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73490.8	33.281793 °N	246.1-226.1 ft msl	287.3 ft msl	4" PVC	S	Water table (IIB ₂)
E57292.9	81.658691 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 44.49 ft (13.56 m) below TOC
 Water elevation: 242.81 ft (74.01 m) msl
 Sp. conductance: 38 µS/cm
 Water evacuated before sampling: 13 gal
 The well went dry during purging.

Time: 13:59
 pH: 5.7
 Alkalinity: 2 mg/L
 Water temperature: 21.7 °C
 Volumes purged: 1.2 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.8	J	pH	0	GE
		Specific conductance	29		µS/cm	0	GE
		Turbidity	14		NTU	0	GE
		Acetophenone	< 1.0		µg/L	0	GE
		Aluminum	58		µg/L	2	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	8.4		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	505	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	1,730		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 37D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	14		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE
		Iron	109		µg/L	0	GE
		Lead	8.3		µg/L	1	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	288		µg/L	0	GE
		Manganese	15		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,480		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	6,110	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	5,390		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
●		Total dissolved solids	37,000	JV6	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.9E+00 ± 8.0E-01		pCi/L	0	GE
■		Tritium	2.8E+01 ± 8.0E-01		pCi/mL	2	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 37D collected on 05/11/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
■		Tritium	2.8E+01 ± 8.0E-01		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 38D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N73329.3	33.281868 °N	242.3-222.3 ft msl	291.6 ft msl	4" PVC	S	Water table (IIB ₂)
E57557.5	81.657681 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 51.77 ft (15.78 m) below TOC
 Water elevation: 239.83 ft (73.10 m) msl
 Sp. conductance: 37 µS/cm
 Water evacuated before sampling: 14 gal
 The well went dry during purging.

Time: 14:22
 pH: 4.4
 Alkalinity: 0 mg/L
 Water temperature: 21.8 °C
 Volumes purged: 1.2 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.3	J	pH	0	GE
		Specific conductance	28		µS/cm	0	GE
		Turbidity	28		NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	256		µg/L	2	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	13		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	102	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	1,300		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	6.5		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 38D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE
		Iron	221		µg/L	1	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	675		µg/L	0	GE
		Manganese	16		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,940		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	5,740	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	1,620		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
•		Total dissolved solids	28,000	JV6	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	80		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	2.9E+00 ± 1.2E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.0E+00 ± 6.0E-01		pCi/L	0	GE
■		Tritium	2.8E+01 ± 8.0E-01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 39D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N73583.5 E57831.0	33.282876 °N 81.657454 °W	244.7-224.7 ft msl	295.7 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 57.57 ft (17.55 m) below TOC
 Water elevation: 238.13 ft (72.58 m) msl
 Sp. conductance: 37 μ S/cm
 Water evacuated before sampling: 8 gal
 The well went dry during purging.

Time: 14:41
 pH: 4.7
 Alkalinity: 0 mg/L
 Water temperature: 22.5 °C
 Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.0	J	pH	0	GE
•		pH	5.0	J	pH	0	GE
		Specific conductance	25		μ S/cm	0	GE
		Specific conductance	25		μ S/cm	0	GE
		Turbidity	418		NTU	0	GE
		Turbidity	418		NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	1,090		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	8.6		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	107	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,890		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 39D collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE
		Iron	455		µg/L	2	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	117		µg/L	0	GE
		Manganese	5.7		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,410		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,430	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,140		µg/L	0	GE
		Sulfate	1,200		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
•		Total dissolved solids	40,000	JV6	µg/L	0	GE
•		Total dissolved solids	28,000	JV	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Total phosphates (as P)	60		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	6.4E+00 ± 2.2E+00		pCi/L	0	GE
		Nonvolatile beta	5.7E+00 ± 1.6E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.9E+00 ± 6.0E-01		pCi/L	0	GE
■		Tritium	2.8E+01 ± 8.0E-01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 40D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76125.8 E54638.6	33.283290 °N 81.670799 °W	226.5-216.6 ft msl	288.4 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/07/93
 Depth to water: 63.63 ft (19.39 m) below TOC
 Water elevation: 224.77 ft (68.51 m) msl
 Sp. conductance: 419 μ S/cm
 Water evacuated before sampling: 3 gal
 The well went dry during purging.

Time: 13:29
 pH: 7.5
 Alkalinity: 170 mg/L
 Water temperature: 22.1 °C
 Volumes purged: 0.6 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	7.4	J	pH	0	GE
		Specific conductance	410		μ S/cm	1	GE
•		Turbidity	54	J	NTU	0	GE
		Acetophenone	<1.0	J1	μ g/L	0	GE
		Aluminum	814		μ g/L	2	GE
		Antimony	<2.0	J1	μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	123		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	14,400		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	3,380		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	2.8		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	10.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	664	J2	μ g/L	2	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 40D collected on 05/07/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
■		Lead	60		µg/L	2	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,630		µg/L	0	GE
		Manganese	107		µg/L	2	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	11		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,380		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	48,900		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	8,950	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	51,300		µg/L	0	GE
		Sulfate	9,450		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	109		µg/L	2	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	273,000	V	µg/L	0	GE
		Total dissolved solids	273,000	V	µg/L	0	GE
		Total organic carbon	1,520		µg/L	0	GE
		Total organic halogens	5.9		µg/L	0	GE
		Total phosphates (as P)	120		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	2.5		µg/L	1	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	4.7E+00 ± 2.7E+00		pCi/L	0	GE
		Nonvolatile beta	3.2E+01 ± 2.1E+00		pCi/L	1	GE
		Radium, total alpha-emitting	1.9E+00 ± 8.0E-01		pCi/L	0	GE
		Tritium	6.3E+00 ± 5.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 41A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76469.5	33.285299 °N	113.3-103.3 ft msl	300.3 ft msl	4" PVC	S	U. Congaree (IIA)
E55403.7	81.669452 °W					

FIELD MEASUREMENTS

Sample date: 05/07/93
 Depth to water: 141.45 ft (43.11 m) below TOC
 Water elevation: 158.85 ft (48.42 m) msl
 Sp. conductance: 1543 μ S/cm
 Water evacuated before sampling: 23 gal
 The well went dry during purging.

Time: 13:04
 pH: 12.3
 Alkalinity: 325 mg/L
 Water temperature: 20.1 °C
 Volumes purged: 0.6 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	12	J	pH	2	GE
		Specific conductance	57		μ S/cm	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	109		μ g/L	2	GE
		Antimony	<2.0	J1	μ g/L	0	GE
		Antimony	<2.0	J1	μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	167		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	37,700		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,380		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 41A collected on 05/07/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Fluoride	<100		µg/L	0	GE
		Iron	4.6	J2	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	111		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	13,200		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	28,200	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	14,500		µg/L	0	GE
		Sulfate	10,700		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	24		µg/L	2	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	195,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	1.6		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	6.2E+00 ± 1.5E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.1E+00 ± 6.0E-01		pCi/L	0	GE
		Radium, total alpha-emitting	2.3E+00 ± 6.0E-01		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 42C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76404.7 E55522.3	33.285349 °N 81.669014 °W	195.9-185.9 ft msl	297.9 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 05/07/93
 Depth to water: 72.28 ft (22.03 m) below TOC
 Water elevation: 225.62 ft (68.77 m) msl
 Sp. conductance: 76 μ S/cm
 Water evacuated before sampling: 19 gal
 The well went dry during purging.

Time: 12:31
 pH: 6.4
 Alkalinity: 8 mg/L
 Water temperature: 20.4 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.4	J	pH	0	GE
		Specific conductance	40		μ S/cm	0	GE
•		Turbidity	2.5	J	NTU	0	GE
		Acetophenone	< 1.0	J1	μ g/L	0	GE
		Aluminum	54		μ g/L	2	GE
		Antimony	< 2.0	J1	μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Barium	14		μ g/L	0	GE
		Benzene	< 1.0		μ g/L	0	GE
		Bromodichloromethane	< 1.0		μ g/L	0	GE
		Bromoform	< 1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		μ g/L	0	GE
		Cadmium	< 2.0		μ g/L	0	GE
		Calcium	1,530		μ g/L	0	GE
		Carbon tetrachloride	< 1.0		μ g/L	0	GE
		Chloride	2,800		μ g/L	0	GE
		Chlorobenzene	< 1.0		μ g/L	0	GE
		Chloroethane	< 1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		μ g/L	0	GE
		Chloroform	< 1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		μ g/L	0	GE
		Chromium	< 4.0		μ g/L	0	GE
		Copper	7.8		μ g/L	0	GE
		Cyanide	< 5.0		μ g/L	0	GE
		Cyanide	< 5.0		μ g/L	0	GE
		Dibromochloromethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethane	< 1.0		μ g/L	0	GE
		1,2-Dichloroethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethylene	< 1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		μ g/L	0	GE
		1,2-Dichloropropane	< 1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
		Endrin	< 0.0060		μ g/L	0	GE
		Ethylbenzene	< 1.0		μ g/L	0	GE
		Fluoride	< 100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 42C collected on 05/07/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	230	J2	µg/L	1	GE
		Lead	8.7		µg/L	1	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	470		µg/L	0	GE
		Manganese	12		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,090		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	1,420		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	9,550	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,490		µg/L	0	GE
		Sulfate	1,200		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	3.3		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	26,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	37		µg/L	1	GE
		Total phosphates (as P)	170		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	76		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	6.5E+00 ± 5.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 43A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N77061.4	33.287994 °N	115.9-105.9 ft msl	314.9 ft msl	4" PVC	S	U. Congaree (IIA)
E56253.4	81.668364 °W					

FIELD MEASUREMENTS

Sample date: 05/07/93
 Depth to water: 149.65 ft (45.61 m) below TOC
 Water elevation: 165.25 ft (50.37 m) msl
 Sp. conductance: 2860 μ S/cm
 Water evacuated before sampling: 26 gal
 The well went dry during purging.

Time: 11:32
 pH: 12.6
 Alkalinity: 671 mg/L
 Water temperature: 19.7 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	12	J	pH	2	GE
		Specific conductance	1,800		μ S/cm	2	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	675		μ g/L	2	GE
		Antimony	<2.0	J1	μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	230		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<8.0		μ g/L	0	GE
		Calcium	181,000		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,310		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<16		μ g/L	0	GE
		Copper	<16		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 43A collected on 05/07/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	<16	J2	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	<8.0		µg/L	0	GE
		Manganese	<8.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<16		µg/L	0	GE
		Nitrate-nitrite as nitrogen	100		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	29,100		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	18,100	J2	µg/L	0	GE
		Silver	<8.0		µg/L	0	GE
		Sodium	20,200		µg/L	0	GE
		Sulfate	8,860		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	23		µg/L	2	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	480,000	V	µg/L	0	GE
		Total organic carbon	1,760		µg/L	0	GE
		Total organic carbon	1,840		µg/L	0	GE
		Total organic halogens	9.6		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 43A collected on 05/07/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 32		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	6.1E+00 ± 2.4E+00		pCi/L	0	GE
		Nonvolatile beta	1.5E+01 ± 1.7E+00		pCi/L	0	GE
		Radium, total alpha-emitting	3.3E+00 ± 1.0E+00		pCi/L	0	GE
		Tritium	6.5E+00 ± 5.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 43AA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N77066.0	33.288029 °N	72.2-62.2 ft msl	314.3 ft msl	4" PVC	S	L. Congaree (IIA)
E56268.6	81.668333 °W					

FIELD MEASUREMENTS

Sample date: 05/06/93

Depth to water: 157.30 ft (47.95 m) below TOC

Water elevation: 157.00 ft (47.85 m) msl

Sp. conductance: 248 µS/cm

Water evacuated before sampling: 202 gal

Time: 15:22

pH: 10.7

Alkalinity: 71 mg/L

Water temperature: 20.1 °C

Volumes purged: 3.2 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	11	J	pH	2	GE
•		pH	11	J	pH	2	GE
		Specific conductance	123		µS/cm	0	GE
		Turbidity	0.35		NTU	0	GE
		Acetophenone	< 10		µg/L	0	GE
		Aluminum	895		µg/L	2	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	39		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	27,000	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	2,240		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 43AA collected on 05/06/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	< 4.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	235		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	< 50		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	6,690		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	18,300	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	4,620		µg/L	0	GE
		Sulfate	8,790		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	13		µg/L	1	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	92,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	16		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE

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WELL BGO 43AA collected on 05/06/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	4.5E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 43CR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N77035.2	33.287910 °N	188.4-178.4 ft msl	315.3 ft msl	4" PVC	S	Barnwell (IIB ₁)
E56237.2	81.668356 °W					

FIELD MEASUREMENTS

Sample date: 05/07/93
 Depth to water: 88.08 ft (26.85 m) below TOC
 Water elevation: 227.22 ft (69.26 m) msl
 Sp. conductance: 327 µS/cm
 Water evacuated before sampling: 22 gal
 The well went dry during purging.

Time: 11:53
 pH: 11.5
 Alkalinity: 58 mg/L
 Water temperature: 19.8 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	9.3	J	pH	1	GE
		Specific conductance	120		µS/cm	0	GE
•		Turbidity	16	J	NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	443		µg/L	2	GE
		Antimony	< 2.0	J1	µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	35		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	18,600		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	2,480		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 43CR collected on 05/07/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	250	J2	µg/L	1	GE
		Lead	10		µg/L	1	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	2,370		µg/L	0	GE
		Manganese	17		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	260		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	4,650		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	9,860	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	6,430		µg/L	0	GE
		Sulfate	15,100		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	9.6		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	75,000	V	µg/L	0	GE
		Total organic carbon	2,250		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	8.0E+00 ± 2.4E+00		pCi/L	1	GE
		Nonvolatile beta	7.1E+00 ± 1.6E+00		pCi/L	0	GE
		Radium, total alpha-emitting	6.8E+00 ± 1.4E+00		pCi/L	0	GE
		Tritium	3.1E+00 ± 4.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 43D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N77056.7 E56238.8	33.287960 °N 81.668394 °W	208.2-198.2 ft msl	315.3 ft msl	4" PVC	S	Barnwell (II B ₁)

FIELD MEASUREMENTS

Sample date: 05/06/93
 Depth to water: 82.32 ft (25.09 m) below TOC
 Water elevation: 232.98 ft (71.01 m) msl
 Sp. conductance: 82 μ S/cm
 Water evacuated before sampling: 86 gal

Time: 14:10
 pH: 5.6
 Alkalinity: 5 mg/L
 Water temperature: 19.5 °C
 Volumes purged: 3.8 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.5	J	pH	0	GE
		Specific conductance	70		μ S/cm	0	GE
		Turbidity	0.95		NTU	0	GE
		Acetophenone	< 10		μ g/L	0	GE
		Aluminum	36		μ g/L	1	GE
		Antimony	< 2.0		μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Barium	18		μ g/L	0	GE
		Benzene	< 1.0		μ g/L	0	GE
		Bromodichloromethane	< 1.0		μ g/L	0	GE
		Bromoform	< 1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		μ g/L	0	GE
		Cadmium	< 2.0		μ g/L	0	GE
		Calcium	6,340	J2	μ g/L	0	GE
		Carbon tetrachloride	< 1.0		μ g/L	0	GE
		Chloride	2,900		μ g/L	0	GE
		Chlorobenzene	< 1.0		μ g/L	0	GE
		Chloroethane	< 1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		μ g/L	0	GE
		Chloroform	< 1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		μ g/L	0	GE
		Chromium	< 4.0		μ g/L	0	GE
		Copper	< 4.0		μ g/L	0	GE
		Cyanide	< 5.0		μ g/L	0	GE
		Dibromochloromethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethane	< 1.0		μ g/L	0	GE
		1,2-Dichloroethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethylene	< 1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		μ g/L	0	GE
		1,2-Dichloropropane	< 1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
		Endrin	< 0.0060		μ g/L	0	GE
		Ethylbenzene	< 1.0		μ g/L	0	GE
		Fluoride	< 100		μ g/L	0	GE
		Iron	18		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 43D collected on 05/06/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	1,140		µg/L	0	GE
		Manganese	7.8		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	450		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	1,800		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	6,110	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	3,350		µg/L	0	GE
		Sulfate	15,600		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	2.2		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	47,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	5.4		µg/L	0	GE
		Total phosphates (as P)	110		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	2.9E+00 ± 1.2E+00		pCi/L	0	GE
		Nonvolatile beta	4.2E+00 ± 1.2E+00		pCi/L	0	GE
		Radium, total alpha-emitting	3.4E+00 ± 7.0E-01		pCi/L	0	GE
		Tritium	4.4E+00 ± 4.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 44A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76755.2	33.289924 °N	108.0-98.0 ft msl	285.3 ft msl	4" PVC	S	U. Congaree (IIA)
E57851.2	81.663562 °W					

FIELD MEASUREMENTS

Sample date: 05/12/93
 Depth to water: 126.32 ft (38.50 m) below TOC
 Water elevation: 158.98 ft (48.46 m) msl
 Sp. conductance: 196 μ S/cm
 Water evacuated before sampling: 205 gal

Time: 13:06
 pH: 7.3
 Alkalinity: 82 mg/L
 Water temperature: 19.8 °C
 Volumes purged: 5.1 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	7.2	J	pH	0	GE
•		pH	7.3	J	pH	0	GE
•		pH	7.3	J	pH	0	GE
•		pH	7.0	J	pH	0	WA
•		pH	7.0	J	pH	0	WA
		Specific conductance	190		μ S/cm	0	GE
		Specific conductance	180		μ S/cm	0	GE
		Specific conductance	180		μ S/cm	0	GE
•		Specific conductance	198	J	μ S/cm	0	WA
•		Specific conductance	198	J	μ S/cm	0	WA
		Turbidity	0.35		NTU	0	GE
		Turbidity	0.16		NTU	0	GE
		Turbidity	0.11		NTU	0	GE
•		Turbidity	0.34	J	NTU	0	WA
•		Turbidity	0.27	J	NTU	0	WA
•		Acetophenone	<10	J1	μ g/L	0	GE
•		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<11		μ g/L	0	WA
		Acetophenone	<11		μ g/L	0	WA
		Acetophenone	<11		μ g/L	0	WA
		Aluminum	55		μ g/L	2	GE
		Aluminum	53		μ g/L	2	GE
		Aluminum	52		μ g/L	2	GE
		Aluminum	50		μ g/L	2	WA
		Aluminum	40	J3	μ g/L	1	WA
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<3.0		μ g/L	0	WA
		Antimony	<3.0		μ g/L	0	WA
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	WA
		Arsenic	<2.0		μ g/L	0	WA
		Barium	33		μ g/L	0	GE
		Barium	33		μ g/L	0	GE
		Barium	33		μ g/L	0	GE
		Barium	32		μ g/L	0	WA

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WELL BGO 44A collected on 05/12/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Barium	31		µg/L	0	WA
		Benzene	< 1.0		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Benzene	< 5.0		µg/L	0	WA
		Benzene	< 5.0		µg/L	0	WA
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 5.0		µg/L	0	WA
		Bromodichloromethane	< 5.0		µg/L	0	WA
		Bromoform	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromoform	< 5.0		µg/L	0	WA
		Bromoform	< 5.0		µg/L	0	WA
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 10		µg/L	0	WA
		Bromomethane (Methyl bromide)	< 10		µg/L	0	WA
		Cadmium	< 2.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	WA
		Cadmium	< 2.0		µg/L	0	WA
		Calcium	32,900	J2	µg/L	0	GE
		Calcium	32,900	J2	µg/L	0	GE
		Calcium	32,200	J2	µg/L	0	GE
		Calcium	35,100		µg/L	0	WA
		Calcium	34,100		µg/L	0	WA
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Carbon tetrachloride	< 5.0		µg/L	0	WA
		Carbon tetrachloride	< 5.0		µg/L	0	WA
		Chloride	2,350		µg/L	0	GE
		Chloride	2,290		µg/L	0	GE
		Chloride	2,370		µg/L	0	WA
		Chloride	2,510		µg/L	0	WA
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chlorobenzene	< 5.0		µg/L	0	WA
		Chlorobenzene	< 5.0		µg/L	0	WA
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethane	< 10		µg/L	0	WA
		Chloroethane	< 10		µg/L	0	WA
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 10		µg/L	0	WA
		Chloroethene (Vinyl chloride)	< 10		µg/L	0	WA
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 10		µg/L	0	WA
		2-Chloroethyl vinyl ether	< 10		µg/L	0	WA
		Chloroform	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloroform	< 5.0		µg/L	0	WA
		Chloroform	< 5.0		µg/L	0	WA
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE

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WELL BGO 44A collected on 05/12/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 10		µg/L	0	WA
		Chloromethane (Methyl chloride)	< 10		µg/L	0	WA
		Chromium	< 4.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	WA
		Chromium	< 4.0		µg/L	0	WA
		Copper	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	WA
		Copper	< 4.0		µg/L	0	WA
		Cyanide	< 5.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	WA
		Cyanide	< 5.0		µg/L	0	WA
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 5.0		µg/L	0	WA
		Dibromochloromethane	< 5.0		µg/L	0	WA
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 5.0		µg/L	0	WA
		1,1-Dichloroethane	< 5.0		µg/L	0	WA
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 5.0		µg/L	0	WA
		1,2-Dichloroethane	< 5.0		µg/L	0	WA
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 5.0		µg/L	0	WA
		1,1-Dichloroethylene	< 5.0		µg/L	0	WA
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 5.0		µg/L	0	WA
		trans-1,2-Dichloroethylene	< 5.0		µg/L	0	WA
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 5.0		µg/L	0	WA
		Dichloromethane (Methylene chloride)	< 5.0		µg/L	0	WA
●		2,4-Dichlorophenoxyacetic acid	< 0.30	J6	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 1.1		µg/L	0	WA
		2,4-Dichlorophenoxyacetic acid	< 1.1		µg/L	0	WA
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 5.0		µg/L	0	WA
		1,2-Dichloropropane	< 5.0		µg/L	0	WA
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 5.0		µg/L	0	WA
		cis-1,3-Dichloropropene	< 5.0		µg/L	0	WA
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 5.0		µg/L	0	WA

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WELL BGO 44A collected on 05/12/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		trans-1,3-Dichloropropene	<5.0		µg/L	0	WA
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.11		µg/L	0	WA
		Endrin	<0.11		µg/L	0	WA
		Endrin	<0.23		µg/L	0	WA
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<5.0		µg/L	0	WA
		Ethylbenzene	<5.0		µg/L	0	WA
		Fluoride	119	V	µg/L	0	GE
		Fluoride	123	V	µg/L	0	GE
		Fluoride	137		µg/L	0	WA
		Fluoride	130		µg/L	0	WA
		Iron	15		µg/L	0	GE
		Iron	15		µg/L	0	GE
		Iron	14		µg/L	0	GE
		Iron	23		µg/L	0	WA
		Iron	23		µg/L	0	WA
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	WA
		Lead	<3.0		µg/L	0	WA
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.056		µg/L	0	WA
		Lindane	<0.055		µg/L	0	WA
		Lindane	<0.11		µg/L	0	WA
		Magnesium	796		µg/L	0	GE
		Magnesium	795		µg/L	0	GE
		Magnesium	783		µg/L	0	GE
		Magnesium	799	V	µg/L	0	WA
		Magnesium	769	V	µg/L	0	WA
		Manganese	<2.0		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Manganese	2.7		µg/L	0	WA
		Manganese	2.6		µg/L	0	WA
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	WA
		Mercury	<0.20		µg/L	0	WA
		Mercury	<0.20		µg/L	0	WA
		Mercury	<0.20		µg/L	0	WA
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.56		µg/L	0	WA
		Methoxychlor	<0.55		µg/L	0	WA
		Methoxychlor	<1.1		µg/L	0	WA
		Methoxychlor	<1.1		µg/L	0	WA
•		Naphthalene	<10	J1	µg/L	0	GE
•		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE

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WELL BGO 44A collected on 05/12/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Nickel	7.5	J3	µg/L	0	WA
		Nickel	< 4.0		µg/L	0	WA
		Nitrate as nitrogen	218		µg/L	0	WA
		Nitrate as nitrogen	144		µg/L	0	WA
		Nitrate-nitrite as nitrogen	< 50		µg/L	0	GE
		Nitrate-nitrite as nitrogen	< 50		µg/L	0	GE
		Nitrate-nitrite as nitrogen	< 50		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	WA
		Phenols	< 5.0		µg/L	0	WA
		Phenols	< 5.0		µg/L	0	WA
		Potassium	1,110		µg/L	0	GE
		Potassium	1,030		µg/L	0	GE
		Potassium	956		µg/L	0	GE
		Potassium	1,140		µg/L	0	WA
		Potassium	1,310		µg/L	0	WA
		Selenium	< 2.0		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	WA
		Selenium	< 2.0		µg/L	0	WA
		Silica	29,500	J2	µg/L	0	GE
		Silica	29,500	J2	µg/L	0	GE
		Silica	29,100		µg/L	0	GE
		Silica	27,700		µg/L	0	WA
		Silica	27,200		µg/L	0	WA
		Silver	< 2.0		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Silver	< 2.0		µg/L	0	WA
		Silver	< 2.0		µg/L	0	WA
		Sodium	2,020		µg/L	0	GE
		Sodium	2,020		µg/L	0	GE
		Sodium	2,030		µg/L	0	GE
		Sodium	1,870	V	µg/L	0	WA
		Sodium	1,800	V	µg/L	0	WA
		Sulfate	5,740		µg/L	0	GE
		Sulfate	5,620		µg/L	0	GE
		Sulfate	5,820		µg/L	0	WA
		Sulfate	5,950		µg/L	0	WA
		Sulfate	5,780		µg/L	0	WA
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 5.0		µg/L	0	WA
		1,1,2,2-Tetrachloroethane	< 5.0		µg/L	0	WA
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 5.0		µg/L	0	WA
		Tetrachloroethylene	< 5.0		µg/L	0	WA
		Tin	< 2.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Tin	< 9.5		µg/L	0	WA
		Tin	< 9.5		µg/L	0	WA
		Toluene	< 1.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE

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WELL BGO 44A collected on 05/12/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Toluene	<5.0		µg/L	0	WA
		Toluene	<5.0		µg/L	0	WA
		Total dissolved solids	133,000	V	µg/L	0	GE
		Total dissolved solids	132,000	V	µg/L	0	GE
		Total dissolved solids	127,000		µg/L	0	WA
		Total dissolved solids	165,000		µg/L	0	WA
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	WA
		Total organic carbon	<1,000		µg/L	0	WA
		Total organic carbon	<1,000		µg/L	0	WA
		Total organic carbon	<1,000		µg/L	0	WA
		Total organic halogens	6.5		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	16		µg/L	0	WA
		Total organic halogens	22		µg/L	0	WA
		Total phosphates (as P)	190		µg/L	0	GE
		Total phosphates (as P)	200		µg/L	0	GE
		Total phosphates (as P)	294		µg/L	0	WA
		Total phosphates (as P)	305		µg/L	0	WA
		Total phosphates (as P)	282		µg/L	0	WA
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<1.1		µg/L	0	WA
		Toxaphene	<1.1		µg/L	0	WA
		Toxaphene	<2.3		µg/L	0	WA
		Toxaphene	<2.3		µg/L	0	WA
•		2,4,5-TP (Silvex)	<0.090	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.57		µg/L	0	WA
		2,4,5-TP (Silvex)	<0.57		µg/L	0	WA
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<5.0		µg/L	0	WA
		1,1,1-Trichloroethane	<5.0		µg/L	0	WA
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<5.0		µg/L	0	WA
		1,1,2-Trichloroethane	<5.0		µg/L	0	WA
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<5.0		µg/L	0	WA
		Trichloroethylene	<5.0		µg/L	0	WA
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<5.0		µg/L	0	WA
		Trichlorofluoromethane	<5.0		µg/L	0	WA
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<3.0		µg/L	0	WA
		Vanadium	<3.0		µg/L	0	WA
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<5.0		µg/L	0	WA

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WELL BGO 44A collected on 05/12/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Xylenes	< 5.0		µg/L	0	WA
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Gross alpha	6.0E-01 ± 9.0E-01		pCi/L	0	TM
		Gross alpha	7.0E-01 ± 9.0E-01		pCi/L	0	TM
		Gross alpha	1.0E+00 ± 1.0E+00		pCi/L	0	TM
		Nonvolatile beta	2.0E+00 ± 7.8E-01		pCi/L	0	GE
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	4.6E+00 ± 2.0E+00		pCi/L	0	TM
		Nonvolatile beta	3.7E+00 ± 2.0E+00		pCi/L	0	TM
		Nonvolatile beta	4.5E+00 ± 2.1E+00		pCi/L	0	TM
		Radium-226	4.7E-01 ± 2.3E-01		pCi/L	0	TM
		Radium-226	2.5E-01 ± 1.8E-01		pCi/L	0	TM
		Radium-226	5.2E-01 ± 2.5E-01		pCi/L	0	TM
		Radium-228	3.1E+00 ± 2.1E+00		pCi/L	0	TM
		Radium-228	2.1E+00 ± 1.5E+00		pCi/L	0	TM
		Radium-228	< 1.4E+00		pCi/L	0	TM
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Tritium	< 2.4E-01		pCi/mL	0	TM
		Tritium	< 2.3E-01		pCi/mL	0	TM
		Tritium	< 2.3E-01		pCi/mL	0	TM
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 44AA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76757.0	33.289976 °N	71.3-61.2 ft msl	285.3 ft msl	4" PVC	S	L. Congaree (IIA)
E57880.5	81.663488 °W					

FIELD MEASUREMENTS

Sample date: 05/10/93
 Depth to water: 126.21 ft (38.47 m) below TOC
 Water elevation: 159.09 ft (48.49 m) msl
 Sp. conductance: 171 µS/cm
 Water evacuated before sampling: 380 gal

Time: 11:40
 pH: 10.3
 Alkalinity: 39 mg/L
 Water temperature: 20.0 °C
 Volumes purged: 5.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	9.7	J	pH	1	GE
		Specific conductance	115		µS/cm	0	GE
		Turbidity	< 0.10		NTU	0	GE
		Acetophenone	< 10		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 44AA collected on 05/10/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Aluminum	231		µg/L	2	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	56		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	20,500	J2	µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	2,060		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.7		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100	V	µg/L	0	GE
		Iron	15		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	431		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	6,790		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	26,000		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	6,790		µg/L	0	GE
		Sulfate	9,480		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	12		µg/L	1	GE
		Toluene	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 44AA collected on 05/10/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Total dissolved solids	82,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	8.3		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	6.7E+00 ± 1.5E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

WELL BGO 44B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76756.0	33.289950 °N	158.1-148.1 ft msl	285.2 ft msl	4" PVC	S	McBean (IIB ₁)
E57865.8	81.663525 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93

Depth to water: 62.01 ft (18.90 m) below TOC

Water elevation: 223.19 ft (68.03 m) msl

Sp. conductance: 1210 µS/cm

Water evacuated before sampling: 40 gal

The well went dry during purging.

Time: 8:29

pH: 11.7

Alkalinity: 126 mg/L

Water temperature: 18.7 °C

Volumes purged: 0.8 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	11	J	pH	2	GE
		Specific conductance	458		µS/cm	1	GE
		Turbidity	340		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	2,500		µg/L	2	GE
		Aluminum	2,140		µg/L	2	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	8.3		µg/L	0	GE
		Barium	245		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<8.0		µg/L	0	GE
		Calcium	233,000	J2	µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 44B collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloride	2,770		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<16		µg/L	0	GE
		Copper	<16		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	<0.30	J6	µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	212	V	µg/L	0	GE
		Iron	389		µg/L	2	GE
		Iron	355	J2	µg/L	2	GE
		Lead	25		µg/L	2	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	654		µg/L	0	GE
		Manganese	252		µg/L	2	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<16		µg/L	0	GE
		Nitrate-nitrite as nitrogen	100		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	11,100		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	40,000	J2	µg/L	0	GE
		Silver	<8.0		µg/L	0	GE
		Sodium	13,300		µg/L	0	GE
		Sulfate	8,380		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<8.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	198,000	V	µg/L	0	GE
		Total organic carbon	4,220		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	100		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
•		2,4,5-TP (Silvex)	<0.090	J6	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<32		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 44B collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	2.2E+00 ± 1.2E+00		pCi/L	0	GE
		Nonvolatile beta	9.0E+00 ± 1.3E+00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Total activity	1.0E+06 ± 2.5E+04		pCi/L	0	EM
■		Tritium	8.4E+02 ± 4.4E+00		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 44C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76757.8	33.290001 °N	200.6-190.6 ft msl	285.6 ft msl	4" PVC	S	Barnwell (IIB ₁)
E57894.9	81.663452 °W					

FIELD MEASUREMENTS

Sample date: 05/11/93
 Depth to water: 62.59 ft (19.08 m) below TOC
 Water elevation: 223.01 ft (67.97 m) msl
 Sp. conductance: 157 µS/cm
 Water evacuated before sampling: 22 gal
 The well went dry during purging.

Time: 8:48
 pH: 8.0
 Alkalinity: 49 mg/L
 Water temperature: 18.7 °C
 Volumes purged: 1.0 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	9.0	J	pH	1	GE
		Specific conductance	135		µS/cm	0	GE
		Turbidity	16		NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	1,520		µg/L	2	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	64		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	12,600	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	1,880		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 44C collected on 05/11/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
•		2,4-Dichlorophenoxyacetic acid	< 0.30	J6	µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	161	V	µg/L	0	GE
		Iron	686		µg/L	2	GE
		Lead	6.8		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	927		µg/L	0	GE
		Manganese	131		µg/L	2	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	780		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	6,200		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	13,200		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	13,900		µg/L	0	GE
		Sulfate	4,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	12		µg/L	1	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	87,000	V	µg/L	0	GE
		Total organic carbon	1,270		µg/L	0	GE
		Total organic halogens	6.4		µg/L	0	GE
		Total phosphates (as P)	70		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
•		2,4,5-TP (Silvex)	< 0.090	J6	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	2.5		µg/L	1	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	2.1E+00 ± 8.2E-01		pCi/L	0	GE
		Nonvolatile beta	3.8E+00 ± 9.1E-01		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Total activity	5.9E+05 ± 5.5E+03		pCi/L	0	EM
■		Tritium	5.5E+02 ± 3.5E+00		pCi/mL	2	GE
■		Tritium	5.4E+02 ± 3.5E+00		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 44D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76759.5 E57910.0	33.290030 °N 81.663415 °W	233.4-223.4 ft msl	285.4 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/10/93
 Depth to water: 51.18 ft (15.60 m) below TOC
 Water elevation: 234.22 ft (71.39 m) msl
 Sp. conductance: 28 μ S/cm
 Water evacuated before sampling: 59 gal

Time: 10:27
 pH: 4.8
 Alkalinity: 0 mg/L
 Water temperature: 19.6 °C
 Volumes purged: 8.3 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.1	J	pH	0	GE
•		pH	5.1	J	pH	0	GE
		Specific conductance	20		μ S/cm	0	GE
		Specific conductance	20		μ S/cm	0	GE
		Turbidity	1.6		NTU	0	GE
		Turbidity	1.4		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	30		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	95		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	776	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,880		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 44D collected on 05/10/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100	V	µg/L	0	GE
		Iron	< 4.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	474		µg/L	0	GE
		Manganese	13		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,010		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	< 500		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	7,390	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	1,690		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	15,000	V	µg/L	0	GE
		Total dissolved solids	19,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	3.6E+00 ± 1.4E+00		pCi/L	0	GE
		Nonvolatile beta	2.6E+00 ± 1.2E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.7E+00 ± 1.0E+00		pCi/L	0	GE
		Total activity	4.1E+05 ± 4.6E+03		pCi/L	0	EM
■		Tritium	3.7E+02 ± 2.9E+00		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 45A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75830.0 E54550.1	33.282492 °N 81.670457 °W	126.9-116.9 ft msl	278.9 ft msl	4" PVC	S	U. Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 05/14/93	Time: 9:52
Depth to water: 117.52 ft (35.82 m) below TOC	pH: 7.8
Water elevation: 161.38 ft (49.19 m) msl	Alkalinity: 69 mg/L
Sp. conductance: 181 µS/cm	Water temperature: 19.2 °C
Water evacuated before sampling: 261 gal	Volumes purged: 8.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.0	J	pH	0	GE
		Specific conductance	170		µS/cm	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	<20		µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	34		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	31,400	J2	µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	1,760		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	3.8		µg/L	1	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
•		Endrin	<0.0060	J6	µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	<4.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 45A collected on 05/14/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		Lead	<3.0		µg/L	0	GE
•		Lindane	<0.0050	J6	µg/L	0	GE
		Magnesium	426		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
•		Methoxychlor	<0.50	J6	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	632		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	1,690		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	23,000	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	3,050		µg/L	0	GE
		Sulfate	3,290		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	118,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	8.2		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
•		Toxaphene	<0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	2.6E+00 ± 1.1E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	1.2E+00 ± 3.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 45B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75840.3 E54563.6	33.282536 °N 81.670441 °W	147.0-137.0 ft msl	278.6 ft msl	4" PVC	S	McBean (lib ₁)

FIELD MEASUREMENTS

Sample date: 05/14/93
 Depth to water: 56.51 ft (17.22 m) below TOC
 Water elevation: 222.09 ft (67.69 m) msl
 Sp. conductance: 109 μ S/cm
 Water evacuated before sampling: 46 gal
 The well went dry during purging.

Time: 9:27
 pH: 10.5
 Alkalinity: 26 mg/L
 Water temperature: 18.2 °C
 Volumes purged: 0.8 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	10	J	pH	2	GE
		Specific conductance	183		μ S/cm	0	GE
•		Turbidity	0.86	J	NTU	0	GE
		Acetophenone	<1.0	J1	μ g/L	0	GE
		Aluminum	170		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	39		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	13,700	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,990		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	7.2		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	3.5		μ g/L	1	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
•		Endrin	<0.0060	J6	μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	27		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 45B collected on 05/14/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		Lead	<3.0		µg/L	0	GE
•		Lindane	<0.0050	J6	µg/L	0	GE
		Magnesium	258		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
•		Methoxychlor	<0.50	J6	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	874		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	3,990		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	11,500	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	5,660		µg/L	0	GE
		Sulfate	2,610		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	8.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	62,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
•		Toxaphene	<0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	3.5E+00 ± 1.2E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	6.6E+00 ± 5.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 45C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N75835.0 E54577.4	33.282547 °N 81.670395 °W	200.5-190.5 ft msl	278.6 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 05/14/93
 Depth to water: 52.89 ft (16.12 m) below TOC
 Water elevation: 225.71 ft (68.80 m) msl
 Sp. conductance: 52 μ S/cm
 Water evacuated before sampling: 13 gal
 The well went dry during purging.

Time: 9:11
 pH: 5.9
 Alkalinity: 10 mg/L
 Water temperature: 18.3 °C
 Volumes purged: 0.6 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	6.3	J	pH	0	GE
		Specific conductance	52		μ S/cm	0	GE
•		Turbidity	2.3	J	NTU	0	GE
		Acetophenone	< 10		μ g/L	0	GE
		Acetophenone	< 10		μ g/L	0	GE
		Aluminum	57		μ g/L	2	GE
		Antimony	< 2.0		μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Barium	16		μ g/L	0	GE
		Benzene	< 1.0		μ g/L	0	GE
		Bromodichloromethane	< 1.0		μ g/L	0	GE
		Bromoform	< 1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		μ g/L	0	GE
		Cadmium	< 2.0		μ g/L	0	GE
		Calcium	5,050	J2	μ g/L	0	GE
		Carbon tetrachloride	< 1.0		μ g/L	0	GE
		Chloride	2,260		μ g/L	0	GE
		Chlorobenzene	< 1.0		μ g/L	0	GE
		Chloroethane	< 1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		μ g/L	0	GE
		Chloroform	< 1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		μ g/L	0	GE
		Chromium	< 4.0		μ g/L	0	GE
		Copper	< 4.0		μ g/L	0	GE
		Cyanide	< 5.0		μ g/L	0	GE
		Dibromochloromethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethane	< 1.0		μ g/L	0	GE
		1,2-Dichloroethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethylene	< 1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	4.1		μ g/L	1	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		μ g/L	0	GE
		1,2-Dichloropropane	< 1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
•		Endrin	< 0.0060	J6	μ g/L	0	GE
		Ethylbenzene	< 1.0		μ g/L	0	GE
		Fluoride	< 100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 45C collected on 05/14/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	27		µg/L	0	GE
		Lead	10		µg/L	1	GE
•		Lindane	<0.0050	J6	µg/L	0	GE
		Magnesium	344		µg/L	0	GE
		Manganese	9.4		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
•		Methoxychlor	<0.50	J6	µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	928		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	1,340		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	7,840	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,670		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	2.5		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	38,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	120		µg/L	0	GE
•		Toxaphene	<0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
■		Tritium	5.6E+02 ± 3.5E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 45D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75854.3	33.282603 °N	229.6-209.6 ft msl	278.6 ft msl	4" PVC	S	Water table (IIB ₂)
E54585.6	81.670411 °W					

FIELD MEASUREMENTS

Sample date: 05/13/93
 Depth to water: 47.87 ft (14.59 m) below TOC
 Water elevation: 230.73 ft (70.33 m) msl
 Sp. conductance: 29 μ S/cm
 Water evacuated before sampling: 160 gal

Time: 11:30
 pH: 4.9
 Alkalinity: 0 mg/L
 Water temperature: 18.9 °C
 Volumes purged: 11.5 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.9	J	pH	0	GE
		Specific conductance	25		μ S/cm	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	28		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	8.8		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	937	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,030		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	4.1		μ g/L	1	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
•		Endrin	<0.0060	J6	μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 45D collected on 05/13/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Fluoride	<100		µg/L	0	GE
		Iron	9.9		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
•		Lindane	<0.0050	J6	µg/L	0	GE
		Magnesium	574		µg/L	0	GE
		Manganese	7.6		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
•		Methoxychlor	<0.50	J6	µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,090		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	7,650	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,210		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
•		Total dissolved solids	20,000	JV	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	5.7		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
•		Toxaphene	<0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Total activity	3.5E+05 ± 4.3E+03		pCi/L	0	EM
■		Tritium	3.3E+02 ± 2.7E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 46B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75012.1	33.280511 °N	150.4-140.4 ft msl	265.4 ft msl	4" PVC	S	Barnwell (IIB ₁)
E54444.7	81.669146 °W					

FIELD MEASUREMENTS

Sample date: 05/14/93
 Depth to water: 44.95 ft (13.70 m) below TOC
 Water elevation: 220.45 ft (67.19 m) msl
 Sp. conductance: 63 μ S/cm
 Water evacuated before sampling: 147 gal

Time: 11:08
 pH: 6.4
 Alkalinity: 17 mg/L
 Water temperature: 19.7 °C
 Volumes purged: 2.8 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.0	J	pH	0	GE
		Specific conductance	58		μ S/cm	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	3.6		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	8,270	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,830		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	3.9		μ g/L	1	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
•		Endrin	<0.0060	J6	μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	148		μ g/L	0	GE
		Iron	11		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 46B collected on 05/14/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		Lead	<3.0		µg/L	0	GE
•		Lindane	<0.0050	J6	µg/L	0	GE
		Magnesium	333		µg/L	0	GE
		Manganese	3.3		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
•		Methoxychlor	<0.50	J6	µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	735		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	12,700	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,200		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	39,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	800		µg/L	0	GE
•		Toxaphene	<0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	1.9		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.5E+00 ± 8.0E-01		pCi/L	0	GE
		Radium, total alpha-emitting	1.3E+00 ± 8.0E-01		pCi/L	0	GE
■		Tritium	5.9E+01 ± 1.2E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 46C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75022.2 E54433.9	33.280515 °N 81.669194 °W	188.0-178.0 ft msl	265.1 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 05/14/93
 Depth to water: 42.95 ft (13.09 m) below TOC
 Water elevation: 222.15 ft (67.71 m) msl
 Sp. conductance: 60 μ S/cm
 Water evacuated before sampling: 32 gal
 The well went dry during purging.

Time: 10:42
 pH: 5.9
 Alkalinity: 9 mg/L
 Water temperature: 19.3 °C
 Volumes purged: 1.1 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.2	J	pH	0	GE
		Specific conductance	52		μ S/cm	0	GE
•		Turbidity	12	J	NTU	0	GE
		Acetophenone	< 1.0	J1	μ g/L	0	GE
		Aluminum	51		μ g/L	2	GE
		Antimony	< 2.0		μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Barium	8.0		μ g/L	0	GE
		Benzene	< 1.0		μ g/L	0	GE
		Bromodichloromethane	< 1.0		μ g/L	0	GE
		Bromoform	< 1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		μ g/L	0	GE
		Cadmium	< 2.0		μ g/L	0	GE
		Calcium	1,720	J2	μ g/L	0	GE
		Carbon tetrachloride	< 1.0		μ g/L	0	GE
		Chloride	2,260		μ g/L	0	GE
		Chlorobenzene	< 1.0		μ g/L	0	GE
		Chloroethane	< 1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		μ g/L	0	GE
		Chloroform	< 1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		μ g/L	0	GE
		Chromium	< 4.0		μ g/L	0	GE
		Copper	< 4.0		μ g/L	0	GE
		Cyanide	< 5.0		μ g/L	0	GE
		Dibromochloromethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethane	< 1.0		μ g/L	0	GE
		1,2-Dichloroethane	< 1.0		μ g/L	0	GE
		1,1-Dichloroethylene	< 1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	2.9		μ g/L	1	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		μ g/L	0	GE
		1,2-Dichloropropane	< 1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		μ g/L	0	GE
•		Endrin	< 0.0060	J6	μ g/L	0	GE
		Ethylbenzene	< 1.0		μ g/L	0	GE
		Fluoride	< 100		μ g/L	0	GE
		Iron	168		μ g/L	1	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 46C collected on 05/14/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	6.3		µg/L	0	GE
•		Lindane	<0.0050	J6	µg/L	0	GE
		Magnesium	315		µg/L	0	GE
		Manganese	19		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
•		Methoxychlor	<0.50	J6	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	5.2		µg/L	0	GE
		Nitrate-nitrite as nitrogen	706		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	1,340		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,810	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	8,270		µg/L	0	GE
		Sulfate	6,050		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	2.5		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	35,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
•		Total organic halogens	19	J6	µg/L	0	GE
•		Total organic halogens	22	J	µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
•		Toxaphene	<0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	24		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.5E+00 ± 8.0E-01		pCi/L	0	GE
■		Tritium	7.8E+01 ± 1.4E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 46D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75033.8	33.280518 °N	212.1-202.1 ft msl	265.1 ft msl	4" PVC	S	Water table (IIB ₂)
E54420.0	81.669253 °W					

FIELD MEASUREMENTS

Sample date: 05/13/93
 Depth to water: 36.45 ft (11.11 m) below TOC
 Water elevation: 228.65 ft (69.69 m) msl
 Sp. conductance: 56 μ S/cm
 Water evacuated before sampling: 67 gal

Time: 14:09
 pH: 4.9
 Alkalinity: 0 mg/L
 Water temperature: 20.2 °C
 Volumes purged: 3.8 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.6	J	pH	0	GE
		Specific conductance	40		μ S/cm	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	123		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	8.2		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	775		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	5,470		μ g/L	0	GE
		Chloride	5,960		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
■		Chloroethene (Vinyl chloride)	7.0		μ g/L	2	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	5.2		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
•		Cyanide	<2.5	J6	μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	52		μ g/L	2	GE
		1,2-Dichloroethane	1.0		μ g/L	0	GE
		1,1-Dichloroethylene	2.9		μ g/L	0	GE
		trans-1,2-Dichloroethylene	1.5		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	3.0		μ g/L	1	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.030		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 46D collected on 05/13/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	14	J2	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.025		µg/L	0	GE
		Magnesium	450		µg/L	0	GE
		Manganese	24		µg/L	0	GE
		Mercury	0.51		µg/L	0	GE
		Methoxychlor	<2.5		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,960		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	661		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,650		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	7,410		µg/L	0	GE
		Sulfate	3.5E+06		µg/L	2	GE
		Sulfate	3.5E+06		µg/L	2	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
■		Tetrachloroethylene	20		µg/L	2	GE
		Tin	3.9		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
●		Total dissolved solids	34,000	J	µg/L	0	GE
		Total organic carbon	2,820		µg/L	0	GE
●		Total organic halogens	346	J	µg/L	2	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<1.2		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	68		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	4.6		µg/L	0	GE
		Gross alpha	2.4E+00 ± 1.5E+00		pCi/L	0	GE
		Nonvolatile beta	2.9E+00 ± 1.4E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.4E+00 ± 8.0E-01		pCi/L	0	GE
		Total activity	4.1E+07 ± 3.2E+05		pCi/L	0	EM
■		Tritium	3.9E+04 ± 3.0E+01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 47A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N74728.8	33.280650 °N	96.8-86.8 ft msl	266.9 ft msl	4" PVC	S	U. Congaree (IIA)
E54914.0	81.667360 °W					

FIELD MEASUREMENTS

Sample date: 05/14/93
 Depth to water: 103.81 ft (31.64 m) below TOC
 Water elevation: 163.09 ft (49.71 m) msl
 Sp. conductance: 176 μ S/cm
 Water evacuated before sampling: 190 gal

Time: 14:32
 pH: 8.7
 Alkalinity: 69 mg/L
 Water temperature: 20.0 °C
 Volumes purged: 3.8 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	7.7	J	pH	0	GE
•		pH	7.8	J	pH	0	GE
		Specific conductance	167		μ S/cm	0	GE
		Specific conductance	165		μ S/cm	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	58		μ g/L	2	GE
		Aluminum	58		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	2.4		μ g/L	0	GE
		Barium	50		μ g/L	0	GE
		Barium	50		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	28,900	J2	μ g/L	0	GE
		Calcium	29,100	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,230		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	3.9		μ g/L	1	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 47A collected on 05/14/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
•		Endrin	<0.0060	J6	µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	154		µg/L	0	GE
		Fluoride	158		µg/L	0	GE
		Iron	9.8		µg/L	0	GE
		Iron	9.8		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
•		Lindane	<0.0050	J6	µg/L	0	GE
		Magnesium	598		µg/L	0	GE
		Magnesium	600		µg/L	0	GE
		Manganese	67		µg/L	2	GE
		Manganese	67		µg/L	2	GE
		Mercury	<0.20		µg/L	0	GE
•		Methoxychlor	<0.50	J6	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	3,110		µg/L	0	GE
		Potassium	3,080		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	23,100	J2	µg/L	0	GE
		Silica	23,200	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	3,430		µg/L	0	GE
		Sodium	3,430		µg/L	0	GE
		Sulfate	6,650		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	110,000	V	µg/L	0	GE
		Total dissolved solids	120,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	9.2		µg/L	0	GE
		Total organic halogens	7.1		µg/L	0	GE
		Total phosphates (as P)	310		µg/L	0	GE
•		Toxaphene	<0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<3.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	2.1E+00 ± 9.8E-01		pCi/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 47A collected on 05/14/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Tritium	1.8E+00 ± 3.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

WELL BGO 47C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N74752.0	33.280733 °N	188.6-178.6 ft msl	267.6 ft msl	4" PVC	S	Barnwell (IIB ₁)
E54933.4	81.667354 °W					

FIELD MEASUREMENTS

Sample date: 05/13/93
 Depth to water: 42.21 ft (12.87 m) below TOC
 Water elevation: 225.39 ft (68.70 m) msl
 Sp. conductance: 39 µS/cm
 Water evacuated before sampling: 100 gal

Time: 13:30
 pH: 5.9
 Alkalinity: 5 mg/L
 Water temperature: 20.5 °C
 Volumes purged: 3.3 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.5	J	pH	0	GE
		Specific conductance	35		µS/cm	0	GE
•		Turbidity	< 0.10	J	NTU	0	GE
		Acetophenone	< 10	J1	µg/L	0	GE
		Aluminum	< 20		µg/L	0	GE
		Antimony	< 2.0		µg/L	0	GE
		Arsenic	< 2.0		µg/L	0	GE
		Barium	11		µg/L	0	GE
		Benzene	< 1.0		µg/L	0	GE
		Bromodichloromethane	< 1.0		µg/L	0	GE
		Bromoform	< 1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	< 1.0		µg/L	0	GE
		Cadmium	< 2.0		µg/L	0	GE
		Calcium	2,820	J2	µg/L	0	GE
		Carbon tetrachloride	< 1.0		µg/L	0	GE
		Chloride	1,790		µg/L	0	GE
		Chlorobenzene	< 1.0		µg/L	0	GE
		Chloroethane	< 1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	< 1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	< 1.0		µg/L	0	GE
		Chloroform	1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 47C collected on 05/13/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	3.6		µg/L	1	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
•		Endrin	< 0.0060	J6	µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	4.2		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
•		Lindane	< 0.0050	J6	µg/L	0	GE
		Magnesium	609		µg/L	0	GE
		Manganese	8.5		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
•		Methoxychlor	< 0.50	J6	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,520		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,520		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	806		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	9,570	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	2,070		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
•		Total dissolved solids	30,000	JV	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	9.1		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
•		Toxaphene	< 0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		Tributyl phosphate	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	3.0		µg/L	1	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.0E+00 ± 6.0E-01		pCi/L	0	GE
		Total activity	3.4E+05 ± 4.3E+03		pCi/L	0	EM
■		Tritium	1.0E+03 ± 4.8E+00		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 47D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N74739.7 E54922.9	33.280689 °N 81.667357 °W	213.4-203.4 ft msl	267.4 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/13/93
 Depth to water: 37.87 ft (11.54 m) below TOC
 Water elevation: 229.53 ft (69.96 m) msl
 Sp. conductance: 47 μ S/cm
 Water evacuated before sampling: 81 gal

Time: 13:11
 pH: 5.3
 Alkalinity: 1 mg/L
 Water temperature: 20.2 °C
 Volumes purged: 4.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.1	J	pH	0	GE
		Specific conductance	40		μ S/cm	0	GE
•		Turbidity	0.45	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	32		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	14		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	2,300	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,860		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	4.0		μ g/L	1	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
•		Endrin	<0.0060	J6	μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	8.5		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 47D collected on 05/13/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Lead	< 3.0		µg/L	0	GE
•		Lindane	< 0.0050	J6	µg/L	0	GE
		Magnesium	913		µg/L	0	GE
		Manganese	9.3		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
•		Methoxychlor	< 0.50	J6	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,500		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	< 500		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	8,520	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	3,420		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
•		Total dissolved solids	31,000	JV	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	14		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
•		Toxaphene	< 0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		Tributyl phosphate	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
■		Trichloroethylene	7.6		µg/L	2	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	2.3E+00 ± 9.6E-01		pCi/L	0	GE
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.9E+00 ± 8.0E-01		pCi/L	0	GE
		Total activity	1.1E+06 ± 2.6E+04		pCi/L	0	EM
■		Tritium	3.3E+02 ± 2.8E+00		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 48C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N74599.6	33.280708 °N	186.7-176.7 ft msl	276.6 ft msl	4" PVC	S	Barnwell (IIB ₁)
E55124.4	81.666555 °W					

FIELD MEASUREMENTS

Sample date: 05/13/93
 Depth to water: 50.42 ft (15.37 m) below TOC
 Water elevation: 226.18 ft (68.94 m) msl
 Sp. conductance: 38 μ S/cm
 Water evacuated before sampling: 124 gal

Time: 12:34
 pH: 5.4
 Alkalinity: 1 mg/L
 Water temperature: 20.5 °C
 Volumes purged: 3.8 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.9	J	pH	0	GE
		Specific conductance	30		μ S/cm	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	23		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	15		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	2,680		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,970		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<10		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	4.1	J2	μ g/L	1	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	8.3	J2	μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 48C collected on 05/13/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	636		µg/L	0	GE
		Manganese	11		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,980		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	516		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,230		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,710		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	1.4	J2	µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
•		Total dissolved solids	28,000	J	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
•		Total organic halogens	<5.0	J	µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	3.6	J2	µg/L	1	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	2.6E+00 ± 1.4E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Total activity	2.9E+06 ± 4.0E+04		pCi/L	0	EM
■		Tritium	2.7E+03 ± 7.8E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 48D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N74586.4 E55121.0	33.280673 °N 81.666538 °W	212.0-202.0 ft msl	276.9 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/13/93
 Depth to water: 47.06 ft (14.34 m) below TOC
 Water elevation: 229.84 ft (70.06 m) msl
 Sp. conductance: 80 μ S/cm
 Water evacuated before sampling: 67 gal

Time: 12:11
 pH: 4.6
 Alkalinity: 0 mg/L
 Water temperature: 20.5 °C
 Volumes purged: 3.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.1	J	pH	0	GE
		Specific conductance	62		μ S/cm	0	GE
•		Turbidity	0.15	J	NTU	0	GE
		Acetophenone	< 10	J1	μ g/L	0	GE
		Acetophenone	< 10	J1	μ g/L	0	GE
		Aluminum	166		μ g/L	2	GE
		Antimony	< 2.0		μ g/L	0	GE
		Arsenic	< 2.0		μ g/L	0	GE
		Barium	161		μ g/L	0	GE
		Benzene	< 5.0		μ g/L	0	GE
		Bromodichloromethane	< 5.0		μ g/L	0	GE
		Bromoform	< 5.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	< 5.0		μ g/L	0	GE
		Cadmium	< 2.0		μ g/L	0	GE
		Calcium	976		μ g/L	0	GE
		Carbon tetrachloride	< 5.0		μ g/L	0	GE
		Chloride	10,500		μ g/L	0	GE
		Chlorobenzene	< 5.0		μ g/L	0	GE
		Chloroethane	< 5.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	< 5.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	< 5.0		μ g/L	0	GE
		Chloroform	6.5		μ g/L	0	GE
		Chloromethane (Methyl chloride)	< 5.0		μ g/L	0	GE
		Chromium	< 4.0		μ g/L	0	GE
		Copper	< 4.0		μ g/L	0	GE
		Cyanide	< 10		μ g/L	0	GE
		Dibromochloromethane	< 5.0		μ g/L	0	GE
		1,1-Dichloroethane	5.0		μ g/L	1	GE
		1,2-Dichloroethane	< 5.0		μ g/L	0	GE
		1,1-Dichloroethylene	< 5.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	< 5.0		μ g/L	0	GE
■		Dichloromethane (Methylene chloride)	13		μ g/L	2	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		μ g/L	0	GE
		1,2-Dichloropropane	< 5.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	< 5.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	< 5.0		μ g/L	0	GE
		Endrin	< 0.0060		μ g/L	0	GE
		Ethylbenzene	< 5.0		μ g/L	0	GE
		Fluoride	< 100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 48D collected on 05/13/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	16		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,290		µg/L	0	GE
		Manganese	13		µg/L	0	GE
		Mercury	0.48		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	3,040		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	1,200		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,050		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	8,140		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<5.0		µg/L	0	GE
	■	Tetrachloroethylene	21		µg/L	2	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<5.0		µg/L	0	GE
●		Total dissolved solids	42,000	J	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
●		Total organic halogens	91	J	µg/L	2	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<5.0		µg/L	0	GE
		1,1,2-Trichloroethane	<5.0		µg/L	0	GE
	■	Trichloroethylene	89		µg/L	2	GE
		Trichlorofluoromethane	<5.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<10		µg/L	0	GE
		Gross alpha	9.8E+00 ± 2.6E+00		pCi/L	1	GE
		Nonvolatile beta	4.9E+00 ± 1.6E+00		pCi/L	0	GE
		Radium, total alpha-emitting	9.2E+00 ± 1.8E+00		pCi/L	0	GE
		Total activity	4.1E+07 ± 3.3E+05		pCi/L	0	EM
	■	Tritium	4.1E+04 ± 3.0E+01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 49A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73902.8 E56205.1	33.280930 °N 81.662356 °W	85.1-75.1 ft msl	271.2 ft msl	4" PVC	S	U. Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 05/14/93
 Depth to water: 104.97 ft (32.00 m) below TOC
 Water elevation: 166.23 ft (50.67 m) msl
 Sp. conductance: 195 μ S/cm
 Water evacuated before sampling: 210 gal

Time: 13:38
 pH: 10.3
 Alkalinity: 89 mg/L
 Water temperature: 19.7 °C
 Volumes purged: 3.5 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	9.6	J	pH	1	GE
		Specific conductance	170		μ S/cm	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	510		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	37		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	33,200	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,050		μ g/L	0	GE
		Chloride	2,080		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.1	JV	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
•		Endrin	<0.0060	J6	μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 49A collected on 05/14/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Fluoride	< 100		µg/L	0	GE
		Iron	< 4.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
•		Lindane	< 0.0050	J6	µg/L	0	GE
		Magnesium	488		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
•		Methoxychlor	< 0.50	J6	µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	< 50		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	5,880		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	19,700	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	3,700		µg/L	0	GE
		Sulfate	3,170		µg/L	0	GE
		Sulfate	3,140		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	6.8		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	86,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
•		Total organic halogens	< 5.0	J6	µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
•		Toxaphene	< 0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		Tributyl phosphate	< 10		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	5.0E+00 ± 1.2E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.6E+00 ± 8.0E-01		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 49C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N73917.2 E56202.2	33.280957 °N 81.662391 °W	176.0-166.0 ft msl	271.1 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 05/14/93
 Depth to water: 40.09 ft (12.22 m) below TOC
 Water elevation: 231.01 ft (70.41 m) msl
 Sp. conductance: 76 μ S/cm
 Water evacuated before sampling: 135 gal

Time: 13:13
 pH: 9.3
 Alkalinity: 20 mg/L
 Water temperature: 19.0 °C
 Volumes purged: 3.2 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	8.2	J	pH	1	GE
		Specific conductance	67		μ S/cm	0	GE
•		Turbidity	<0.10	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	85		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	39		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	5,440	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,370		μ g/L	C	GE
		Chloride	2,360		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0	JV	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
•		Endrin	<0.0060	J	μ g/L	0	GE
•		Endrin	<0.0060	J6	μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 49C collected on 05/14/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	5.5		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
•		Lindane	< 0.0050	J	µg/L	0	GE
•		Lindane	< 0.0050	J6	µg/L	0	GE
		Magnesium	173		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
•		Methoxychlor	< 0.50	J	µg/L	0	GE
•		Methoxychlor	< 0.50	J6	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	789		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	4,110		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	8,150	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	5,540		µg/L	0	GE
		Sulfate	1,980		µg/L	0	GE
		Sulfate	1,920		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	6.7		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	42,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
•		Toxaphene	< 0.24	J	µg/L	0	GE
•		Toxaphene	< 0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		Tributyl phosphate	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	3.2E+00 ± 1.1E+00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
■		Tritium	3.6E+01 ± 9.0E-01		pCi/mL	2	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 49D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73931.5 E56198.8	33.280983 °N 81.662428 °W	238.5-218.5 ft msl	271.5 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/14/93
 Depth to water: 32.87 ft (10.02 m) below TOC
 Water elevation: 238.63 ft (72.74 m) msl
 Sp. conductance: 35 μ S/cm
 Water evacuated before sampling: 14 gal
 The well went dry during purging.

Time: 12:38
 pH: 4.9
 Alkalinity: 1 mg/L
 Water temperature: 18.6 °C
 Volumes purged: 1.1 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.4	J	pH	0	GE
		Specific conductance	30		μ S/cm	0	GE
•		Turbidity	2.0	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	63		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	12		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	430	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,730		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0	JV	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
•		Endrin	<0.0060	J6	μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 49D collected on 05/14/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	91		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
•		Lindane	<0.0050	J6	µg/L	0	GE
		Magnesium	349		µg/L	0	GE
		Manganese	2.8		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
•		Methoxychlor	<0.50	J6	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,410		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	6,260	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,280		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	20,000	V	µg/L	0	GE
		Total organic carbon	2,540		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
•		Toxaphene	<0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
■		Tritium	2.1E+01 ± 7.0E-01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 50A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75201.2 E54179.8	33.280497 °N 81.670210 °W	100.5-90.5 ft msl	255.4 ft msl	4" PVC	S	U. Congaree (IIA)

FIELD MEASUREMENTS

Sample date: 05/14/93
 Depth to water: 94.62 ft (28.84 m) below TOC
 Water elevation: 160.78 ft (49.01 m) msl
 Sp. conductance: 595 μ S/cm
 Water evacuated before sampling: 40 gal
 The well went dry during purging.

Time: 11:50
 pH: 11.9
 Alkalinity: 144 mg/L
 Water temperature: 19.3 °C
 Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	11	J	pH	2	GE
		Specific conductance	870		μ S/cm	2	GE
•		Turbidity	0.26	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	650		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	213		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	52,800	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,850		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.0	JV	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
•		Endrin	<0.0060	J6	μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	6.8		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 50A collected on 05/14/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		Lead	< 3.0		µg/L	0	GE
•		Lindane	< 0.0050	J6	µg/L	0	GE
		Magnesium	89		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
•		Methoxychlor	< 0.50	J6	µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	302		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	14,100		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	14,500	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	25,800		µg/L	0	GE
		Sulfate	4,530		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	16		µg/L	1	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	240,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
•		Toxaphene	< 0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		Tributyl phosphate	< 10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	9.6		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	8.5E+00 ± 1.4E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.6E+00 ± 8.0E-01		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 50C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75190.4 E54197.0	33.280501 °N 81.670144 °W	172.5-162.5 ft msl	255.5 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 05/14/93
 Depth to water: 34.34 ft (10.47 m) below TOC
 Water elevation: 221.16 ft (67.41 m) msl
 Sp. conductance: 30 μ S/cm
 Water evacuated before sampling: 39 gal
 The well went dry during purging.

Time: 11:31
 pH: 5.0
 Alkalinity: 1 mg/L
 Water temperature: 19.0 °C
 Volumes purged: 1.0 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.1	J	pH	0	GE
•		pH	5.0	J	pH	0	GE
		Specific conductance	30		μ S/cm	0	GE
		Specific conductance	28		μ S/cm	0	GE
•		Turbidity	5.5	J	NTU	0	GE
•		Turbidity	5.7	J	NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	49		μ g/L	1	GE
		Aluminum	47		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	6.3		μ g/L	0	GE
		Barium	6.1		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	1,330	J2	μ g/L	0	GE
		Calcium	1,310	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,230		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 50C collected on 05/14/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.1	JV	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
•		Endrin	<0.0060	J6	µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	49		µg/L	0	GE
		Iron	49		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
•		Lindane	<0.0050	J6	µg/L	0	GE
		Magnesium	418		µg/L	0	GE
		Magnesium	416		µg/L	0	GE
		Manganese	12		µg/L	0	GE
		Manganese	12		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
•		Methoxychlor	<0.50	J6	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	751		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	9,690	J2	µg/L	0	GE
		Silica	9,710	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,430		µg/L	0	GE
		Sodium	2,430		µg/L	0	GE
		Sulfate	1,480		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	28,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	10		µg/L	0	GE
		Total organic halogens	12		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
•		Toxaphene	<0.24	J6	µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	15		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 50C collected on 05/14/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
	■	Tritium	6.9E+01 ± 1.3E+00		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

WELL BGO 50D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75181.3	33.280501 °N	228.0-208.0 ft msl	256 ft msl	4" PVC	S	Water table (IIB ₂)
E54209.1	81.670095 °W					

FIELD MEASUREMENTS

Sample date: 05/13/93
 Depth to water: 27.58 ft (8.41 m) below TOC
 Water elevation: 228.42 ft (69.62 m) msl
 Sp. conductance: 68 µS/cm
 Water evacuated before sampling: 108 gal

Time: 14:53
 pH: 5.8
 Alkalinity: 11 mg/L
 Water temperature: 19.5 °C
 Volumes purged: 8.1 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.3	J	pH	0	GE
		Specific conductance	48		µS/cm	0	GE
		Specific conductance	48		µS/cm	0	GE
•		Turbidity	1.6	J	NTU	0	GE
•		Turbidity	1.3	J	NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	75		µg/L	2	GE
		Antimony	<2.0		µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	11		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	7,810		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	3,170		µg/L	0	GE
		Chloride	3,240		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 50D collected on 05/13/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloroform	2.0	J2	µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Cyanide	< 10		µg/L	0	GE
		Cyanide	< 10		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	13	J2	µg/L	2	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	1.2	J2	µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.6	J2	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	12		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	446		µg/L	0	GE
		Manganese	4.1		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	990		µg/L	0	GE
		Nitrate-nitrite as nitrogen	940		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	< 500		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	7,290		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	2,420		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	1.5	J2	µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
•		Total dissolved solids	44,000	J	µg/L	0	GE
•		Total dissolved solids	37,000	J	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
•		Total organic halogens	348	J	µg/L	2	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGO 50D collected on 05/13/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		Tributyl phosphate	<10	J1	µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
■		Trichloroethylene	24	J2	µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	3.0E+00 ± 1.6E+00		pCi/L	0	GE
		Gross alpha	2.9E+00 ± 1.5E+00		pCi/L	0	GE
		Nonvolatile beta	2.2E+00 ± 1.3E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	3.8E+00 ± 1.2E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.7E+00 ± 1.0E+00		pCi/L	0	GE
		Total activity	6.9E+06 ± 5.9E+04		pCi/L	0	EM
■		Tritium	6.3E+03 ± 1.2E+01		pCi/mL	2	GE
■		Tritium	6.2E+03 ± 1.2E+01		pCi/mL	2	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP

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WELL BGX 1C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76820.0	33.291289 °N	186.0-176.0 ft msl	291.3 ft msl	4" PVC	S	Barnwell (IIB ₁)
E58599.8	81.661716 °W					

FIELD MEASUREMENTS

Sample date: 05/18/93
 Depth to water: 73.17 ft (22.30 m) below TOC
 Water elevation: 218.13 ft (66.49 m) msl
 Sp. conductance: 1319 μ S/cm
 Water evacuated before sampling: 17 gal
 The well went dry during purging.

Time: 10:07
 pH: 12.0
 Alkalinity: 467 mg/L
 Water temperature: 19.3 °C
 Volumes purged: 0.6 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	12	J	pH	2	GE
•		pH	12	J	pH	2	GE
		Specific conductance	950		μ S/cm	2	GE
		Turbidity	6.8		NTU	0	GE
		Acetophenone	<1.0	J1	μ g/L	0	GE
		Aluminum	478		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	148		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	86,100		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,480		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.4	JV2	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 1C collected on 05/18/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Fluoride	<100		µg/L	0	GE
		Iron	15		µg/L	0	GE
		Lead	7.9		µg/L	1	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	223		µg/L	0	GE
		Manganese	2.8		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	480		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	4,510		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	9,380		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,420		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	241,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	180		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	4.2E+00 ± 7.3E-01		pCi/L	0	GE
		Radium, total alpha-emitting	1.4E+00 ± 8.0E-01		pCi/L	0	GE
		Total activity	1.0E+06 ± 2.5E+04		pCi/L	0	EM
■		Tritium	8.4E+02 ± 4.4E+00		pCi/mL	2	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 1D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76809.5	33.291280 °N	234.7-214.7 ft msl	291.3 ft msl	4" PVC	S	Water table (IIB ₂)
E58608.6	81.661673 °W					

FIELD MEASUREMENTS

Sample date: 05/18/93
 Depth to water: 60.74 ft (18.51 m) below TOC
 Water elevation: 230.56 ft (70.28 m) msl
 Sp. conductance: 75 μ S/cm
 Water evacuated before sampling: 9 gal
 The well went dry during purging.

Time: 10:24
 pH: 5.8
 Alkalinity: 15 mg/L
 Water temperature: 19.6 °C
 Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.6	J	pH	0	GE
		Specific conductance	70		μ S/cm	0	GE
		Turbidity	37		NTU	0	GE
		Turbidity	37		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	312		μ g/L	2	GE
		Aluminum	309		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	33		μ g/L	0	GE
		Barium	33		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	8,570		μ g/L	0	GE
		Calcium	8,520		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,750		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	4.4		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.5	JV	μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

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WELL BGX 1D collected on 05/18/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	147		µg/L	0	GE
		Iron	147		µg/L	0	GE
		Lead	9.0		µg/L	1	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	861		µg/L	0	GE
		Magnesium	858		µg/L	0	GE
		Manganese	71		µg/L	2	GE
		Manganese	70		µg/L	2	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	7.1		µg/L	0	GE
		Nickel	5.4		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,280		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,240		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	1,950		µg/L	0	GE
		Potassium	1,890		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,680		µg/L	0	GE
		Silica	8,630		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,830		µg/L	0	GE
		Sodium	4,830		µg/L	0	GE
		Sulfate	1,880		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	42,000		µg/L	0	GE
		Total dissolved solids	45,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	110		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 1D collected on 05/18/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Nonvolatile beta	7.1E+00 ± 8.6E-01		µCi/L	0	GE
		Radium, total alpha-emitting	1.4E+00 ± 8.0E-01		µCi/L	0	GE
		Total activity	4.2E+05 ± 4.7E+03		µCi/L	0	EM
	■	Tritium	3.8E+02 ± 3.0E+00		µCi/mL	2	GE

WELL BGX 2B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N77203.4	33.291577 °N	147.2-137.2 ft msl	291.3 ft msl	4" PVC	S	McBean (IIB ₁)
E58256.5	81.663365 °W					

FIELD MEASUREMENTS

Sample date: 05/18/93

Depth to water: 76.80 ft (23.41 m) below TOC

Water elevation: 214.50 ft (65.38 m) msl

Sp. conductance: 237 µS/cm

Water evacuated before sampling: 51 gal

The well went dry during purging.

Time: 9:28

pH: 7.6

Alkalinity: 107 mg/L

Water temperature: 19.4 °C

Volumes purged: 1.0 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
●		pH	7.0	J	pH	0	GE
		Specific conductance	215		µS/cm	0	GE
		Turbidity	1.5		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	46		µg/L	1	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	67		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	47,000	J2	µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	2,030		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 2B collected on 05/18/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Dichloromethane (Methylene chloride)	1.1	JV	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	95		µg/L	0	GE
		Lead	3.2		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	620		µg/L	0	GE
		Manganese	7.4		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	490		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	711		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	27,400	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	3,780		µg/L	0	GE
		Sulfate	4,070		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	144,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.3E+00 ± 7.0E-01		pCi/L	0	GE
		Tritium	1.9E+00 ± 3.0E-01		pCi/mL	0	GE

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WELL BGX 2D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N77192.4	33.291567 °N	191.1-181.1 ft msl	291.1 ft msl	4" PVC	S	Barnwell (IIB ₁)
E58265.6	81.663320 °W					

FIELD MEASUREMENTS

Sample date: 05/18/93
 Depth to water: 73.61 ft (22.44 m) below TOC
 Water elevation: 217.49 ft (66.29 m) msl
 Sp. conductance: 37 μ S/cm
 Water evacuated before sampling: 24 gal
 The well went dry during purging.

Time: 9:44
 pH: 5.5
 Alkalinity: 2 mg/L
 Water temperature: 19.5 °C
 Volumes purged: 1.0 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.8	J	pH	0	GE
		Specific conductance	30		μ S/cm	0	GE
		Turbidity	0.94		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	49		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	5.3		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	2,510		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,990		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.0	JV	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE

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WELL BGX 2D collected on 05/18/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Iron	32		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	421		µg/L	0	GE
		Manganese	13		µg/L	0	GE
		Mercury	<2.4		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,580		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	649		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,680		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	1,940		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	29,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	13		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
	■	Trichloroethylene	12		µg/L	2	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
	■	Tritium	8.8E+01 ± 1.4E+00		pCi/mL	2	GE

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WELL BGX 3D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N77577.0 E57780.1	33.291626 °N 81.665346 °W	221.6-201.6 ft msl	291.2 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 05/17/93
 Depth to water: 73.85 ft (22.51 m) below TOC
 Water elevation: 217.35 ft (66.25 m) msl
 Sp. conductance: 33 µS/cm
 Water evacuated before sampling: 49 gal

Time: 14:11
 pH: 5.4
 Alkalinity: 2 mg/L
 Water temperature: 19.0 °C
 Volumes purged: 4.7 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	4.6	J	pH	0	GE
•		pH	4.6	J	pH	0	GE
		Specific conductance	25		µS/cm	0	GE
		Turbidity	0.18		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	<20		µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	11		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	1,220		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	1,840		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	14		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.3	JV	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE

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WELL BGX 3D collected on 05/17/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Iron	19		µg/L	0	GE
		Lead	4.3		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	683		µg/L	0	GE
		Manganese	22		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,080		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,060		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,840		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,260		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	11,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	3.6		µg/L	1	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Total activity	1.2E+06 ± 2.7E+04		pCi/L	0	EM
■		Tritium	1.1E+03 ± 4.9E+00		pCi/mL	2	GE

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WELL BGX 4A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N77879.2	33.291373 °N	116.8-106.8 ft msl	290.9 ft msl	4" PVC	S	U. Congaree (IIA)
E57215.6	81.667419 °W					

FIELD MEASUREMENTS

Sample date: 05/17/93
 Depth to water: 135.38 ft (41.26 m) below TOC
 Water elevation: 155.52 ft (47.40 m) msl
 Sp. conductance: 281 μ S/cm
 Water evacuated before sampling: 115 gal

Time: 13:04
 pH: 7.7
 Alkalinity: 111 mg/L
 Water temperature: 19.8 °C
 Volumes purged: 3.6 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	7.2	J	pH	0	GE
		Specific conductance	282		μ S/cm	1	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	35		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	33		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	49,200		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,290		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE

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WELL BGX 4A collected on 05/17/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0	JV	µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0	JV	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	15		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	1,180		µg/L	0	GE
		Manganese	14		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	2,110		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	35,300		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,730		µg/L	0	GE
		Sulfate	8,610		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	174,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 4A collected on 05/17/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	<7.0E-01		pCi/mL	0	GE

WELL BGX 4C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N77886.2	33.291367 °N	180.7-170.7 ft msl	290.8 ft msl	4" PVC	S	McBean (IIB ₁)
E57202.2	81.667468 °W					

FIELD MEASUREMENTS

Sample date: 05/17/93

Depth to water: 73.65 ft (22.45 m) below TOC

Water elevation: 217.15 ft (66.19 m) msl

Sp. conductance: 86 µS/cm

No water evacuated before sampling.

Time: 13:24

pH: 6.5

Alkalinity: 23 mg/L

Water temperature: 19.6 °C

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	6.1	J	pH	0	GE
		Specific conductance	81		µS/cm	0	GE
		Turbidity	0.14		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	<20		µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	6.5		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	10,800		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	2,090		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 4C collected on 05/17/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.0	JV	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	4.5		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	613		µg/L	0	GE
		Manganese	2.7		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	890		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	10,500		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	3,040		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	47,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	2.5		µg/L	1	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	3.4E+00 ± 4.0E-01		pCi/mL	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 4D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N77893.9 E57186.2	33.291358 °N 81.667525 °W	223.8-203.8 ft msl	290.9 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 05/17/93
 Depth to water: 72.58 ft (22.12 m) below TOC
 Water elevation: 218.32 ft (66.54 m) msl
 Sp. conductance: 40 μ S/cm
 Water evacuated before sampling: 74 gal

Time: 12:46
 pH: 5.6
 Alkalinity: 3 mg/L
 Water temperature: 19.4 °C
 Volumes purged: 7.8 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.1	J	pH	0	GE
		Specific conductance	35		μ S/cm	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	8.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	1,980		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,470		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.0	JV	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 4D collected on 05/17/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Iron	8.5		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	532		µg/L	0	GE
		Manganese	14		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,060		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,480		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	3,290		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	31,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	1.0E+01 ± 6.0E-01		pCi/mL	1	GE
		Tritium	9.4E+00 ± 6.0E-01		pCi/mL	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 5D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N78402.0	33.292681 °N	215.0-195.0 ft msl	285 ft msl	4" PVC	S	Barnwell (IIB ₁)
E57308.6	81.668190 °W					

FIELD MEASUREMENTS

Sample date: 05/17/93
 Depth to water: 73.35 ft (22.36 m) below TOC
 Water elevation: 211.65 ft (64.51 m) msl
 Sp. conductance: 63 μ S/cm
 Water evacuated before sampling: 48 gal

Time: 11:54
 pH: 5.6
 Alkalinity: 2 mg/L
 Water temperature: 20.0 °C
 Volumes purged: 4.4 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.1	J	pH	0	GE
		Specific conductance	58		μ S/cm	0	GE
		Turbidity	0.24		NTU	0	GE
		Acetophenone	<1.0	J1	μ g/L	0	GE
		Aluminum	68		μ g/L	2	GE
		Aluminum	69		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	21		μ g/L	0	GE
		Barium	21		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	2,060		μ g/L	0	GE
		Calcium	2,060		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	3,330		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0	JV	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 5D collected on 05/17/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	14		µg/L	0	GE
		Iron	14		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	898		µg/L	0	GE
		Magnesium	899		µg/L	0	GE
		Manganese	368		µg/L	2	GE
		Manganese	368		µg/L	2	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	5.5		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,060		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	1,210		µg/L	0	GE
		Potassium	1,090		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	7,030		µg/L	0	GE
		Silica	7,040		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	5,270		µg/L	0	GE
		Sodium	5,240		µg/L	0	GE
		Sulfate	7,980		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	35,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	6.4		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Total phosphates (as P)	< 50		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	6.7		µg/L	1	GE
		Vanadium	< 8.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	2.0E+00 ± 1.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.7E+00 ± 8.0E-01		pCi/L	0	GE
■		Tritium	5.5E+01 ± 1.1E+00		pCi/mL	2	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 6D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N78740.1 E57524.9	33.293782 °N 81.668277 °W	211.0-191.0 ft msl	277 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 05/17/93
 Depth to water: 68.38 ft (20.84 m) below TOC
 Water elevation: 208.62 ft (63.59 m) msl
 Sp. conductance: 76 μ S/cm
 Water evacuated before sampling: 44 gal

Time: 9:40
 pH: 6.3
 Alkalinity: 15 mg/L
 Water temperature: 19.1 °C
 Volumes purged: 3.8 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.8	J	pH	0	GE
		Specific conductance	72		μ S/cm	0	GE
		Turbidity	1.2		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	<20		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	26		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	8,250		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,470		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	5.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0	JV	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	142		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 6D collected on 05/17/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Iron	25		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	453		µg/L	0	GE
		Manganese	34		µg/L	1	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	4.5		µg/L	0	GE
		Nitrate-nitrite as nitrogen	830		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	765		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	9,290		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	3,450		µg/L	0	GE
		Sulfate	2,390		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	45,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	570		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Tritium	3.3E+00 ± 4.0E-01		pCi/mL	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 8DR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N77589.6	33.293550 °N	203.1-183.1 ft msl	278.2 ft msl	4" PVC	S	Barnwell (IIB ₁)
E58942.5	81.662309 °W					

FIELD MEASUREMENTS

Sample date: 05/17/93
 Depth to water: 70.13 ft (21.38 m) below TOC
 Water elevation: 208.07 ft (63.42 m) msl
 Sp. conductance: 42 µS/cm
 Water evacuated before sampling: 65 gal

Time: 10:22
 pH: 5.7
 Alkalinity: 5 mg/L
 Water temperature: 19.1 °C
 Volumes purged: 4.0 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.0	J	pH	0	GE
		Specific conductance	35		µS/cm	0	GE
		Specific conductance	35		µS/cm	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	77		µg/L	2	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	38		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	7,530		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	2,170		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	1.2	JV	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 8DR collected on 05/17/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Iron	40		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	615		µg/L	0	GE
		Manganese	33		µg/L	1	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,320		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	8,540		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,160		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	21,000	V	µg/L	0	GE
		Total dissolved solids	19,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	2.3		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Total activity	9.6E+05 ± 6.9E+03		pCi/L	0	EM
■		Tritium	8.9E+02 ± 4.5E+00		pCi/mL	2	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 9D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N76936.0	33.293050 °N	232.4-212.4 ft msl	279.4 ft msl	4" PVC	S	Water table (IIB ₂)
E59522.1	81.659513 °W					

FIELD MEASUREMENTS

Sample date: 05/17/93
 Depth to water: 51.41 ft (15.67 m) below TOC
 Water elevation: 227.99 ft (69.49 m) msl
 Sp. conductance: 27 μ S/cm
 Water evacuated before sampling: 65 gal

Time: 10:55
 pH: 5.0
 Alkalinity: 0 mg/L
 Water temperature: 19.2 °C
 Volumes purged: 6.4 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	4.6	J	pH	0	GE
•		pH	4.6	J	pH	0	GE
		Specific conductance	23		μ S/cm	0	GE
		Specific conductance	23		μ S/cm	0	GE
		Turbidity	<0.10		NTU	0	GE
		Turbidity	<0.10		NTU	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Aluminum	326		μ g/L	2	GE
		Aluminum	324		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	14		μ g/L	0	GE
		Barium	14		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	108		μ g/L	0	GE
		Calcium	108		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,830		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	8.3		μ g/L	0	GE
		Copper	8.5		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 9D collected on 05/17/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Dichloromethane (Methylene chloride)	<1.0	JV	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	254	J2	µg/L	1	GE
		Iron	252	J2	µg/L	1	GE
		Iron	10	J2	µg/L	0	GE
		Iron	8.5	J2	µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	696		µg/L	0	GE
		Magnesium	700		µg/L	0	GE
		Manganese	17		µg/L	0	GE
		Manganese	17		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,160		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	6,140		µg/L	0	GE
		Silica	6,130		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	1,640		µg/L	0	GE
		Sodium	1,650		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	2.6		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	14,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 9D collected on 05/17/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.5E+00 ± 9.0E-01		pCi/L	0	GE
		Tritium	1.0E+01 ± 6.0E-01		pCi/mL	1	GE

WELL BGX 10D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N76183.3	33.291783 °N	236.2-216.2 ft msl	276.9 ft msl	4" PVC	S	Water table (IIB ₂)
E59765.5	81.657410 °W					

FIELD MEASUREMENTS

Sample date: 05/18/93

Depth to water: 49.69 ft (15.15 m) below TOC

Water elevation: 227.21 ft (69.25 m) msl

Sp. conductance: 33 µS/cm

Water evacuated before sampling: 5 gal

The well went dry during purging.

Time: 8:58

pH: 5.8

Alkalinity: 3 mg/L

Water temperature: 18.2 °C

Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.1	J	pH	0	GE
		Specific conductance	30		µS/cm	0	GE
		Turbidity	185		NTU	0	GE
		Acetophenone	<10	J1	µg/L	0	GE
		Aluminum	1,100		µg/L	2	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	25		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	1,090		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	1,650		µg/L	0	GE
		Chloride	1,670		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Copper	46		µg/L	0	GE
		Copper	50.3		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 10D collected on 05/18/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Dichloromethane (Methylene chloride)	< 1.0	JV	µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	1,530		µg/L	2	GE
■		Lead	108		µg/L	2	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	694		µg/L	0	GE
		Manganese	159		µg/L	2	GE
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10	J1	µg/L	0	GE
		Nickel	13		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,540		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	< 500		µg/L	0	GE
		Selenium	< 2.0		µg/L	0	GE
		Silica	8,850		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	3,690		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		Sulfate	< 1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	12,000		µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	520		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.9E+00 ± 1.1E+00		pCi/L	0	GE
		Tritium	8.5E+00 ± 5.0E-01		pCi/mL	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 11D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N75300.7 E59581.4	33.289530 °N 81.656180 °W	236.7-216.7 ft msl	276.3 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/18/93
 Depth to water: 38.45 ft (11.72 m) below TOC
 Water elevation: 237.85 ft (72.50 m) msl
 Sp. conductance: 43 μ S/cm
 Water evacuated before sampling: 10 gal
 The well went dry during purging.

Time: 8:41
 pH: 4.4
 Alkalinity: 0 mg/L
 Water temperature: 19.1 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.7	J	pH	0	GE
		Specific conductance	35		μ S/cm	0	GE
		Turbidity	342		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	1,290		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	20		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	2,130		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	3,260		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.3	JV	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE

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WELL BGX 11D collected on 05/18/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	747		µg/L	2	GE
		Iron	294	J2	µg/L	1	GE
		Lead	5.4		µg/L	0	GE
		Lead	5.5		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	782		µg/L	0	GE
		Manganese	3.9		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	1,810		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	9,040		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,920		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	24,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	180		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	4.0E+00 ± 1.3E+00		pCi/L	0	GE
		Nonvolatile beta	2.4E+00 ± 1.1E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.0E+00 ± 9.0E-01		pCi/L	0	GE
		Tritium	1.8E+01 ± 7.0E-01		pCi/mL	1	GE
		Tritium	<7.0E-01 ± 1.0E+00		pCi/mL	0	GE

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WELL BGX 12C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N74427.9	33.287753 °N	184.1-174.1 ft msl	275.1 ft msl	4" PVC	S	Barnwell (IIB ₁)
E59675.3	81.654237 °W					

FIELD MEASUREMENTS

Sample date: 05/18/93
 Depth to water: 37.68 ft (11.49 m) below TOC
 Water elevation: 237.42 ft (72.37 m) msl
 Sp. conductance: 37 μ S/cm
 Water evacuated before sampling: 131 gal

Time: 13:15
 pH: 5.7
 Alkalinity: 6 mg/L
 Water temperature: 19.8 °C
 Volumes purged: 3.2 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	5.0	J	pH	0	GE
•		pH	5.2	J	pH	0	GE
•		pH	5.7	J	pH	0	WA
•		pH	5.7	J	pH	0	WA
		Specific conductance	28		μ S/cm	0	GE
		Specific conductance	25		μ S/cm	0	GE
•		Specific conductance	30	J	μ S/cm	0	WA
•		Specific conductance	29	J	μ S/cm	0	WA
		Turbidity	1.0		NTU	0	GE
		Turbidity	1.0		NTU	0	GE
•		Turbidity	1.3	J	NTU	0	WA
•		Turbidity	1.1	J	NTU	0	WA
		Acetophenone	<10		μ g/L	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Acetophenone	<11		μ g/L	0	WA
		Acetophenone	<11		μ g/L	0	WA
		Acetophenone	<11		μ g/L	0	WA
		Aluminum	96		μ g/L	2	GE
		Aluminum	92		μ g/L	2	GE
		Aluminum	109		μ g/L	2	GE
		Aluminum	52	J2	μ g/L	2	GE
		Aluminum	49		μ g/L	1	WA
		Aluminum	25	J3	μ g/L	0	WA
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<3.0		μ g/L	0	WA
		Antimony	<3.0		μ g/L	0	WA
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	WA
		Arsenic	<2.0		μ g/L	0	WA
		Barium	6.0		μ g/L	0	GE
		Barium	6.0		μ g/L	0	GE
		Barium	6.0		μ g/L	0	GE
		Barium	5.5	J3	μ g/L	0	WA
		Barium	5.4	J3	μ g/L	0	WA
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<5.0		μ g/L	0	WA

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WELL BGX 12C collected on 05/18/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Benzene	<5.0		µg/L	0	WA
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<5.0		µg/L	0	WA
		Bromodichloromethane	<5.0		µg/L	0	WA
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<5.0		µg/L	0	WA
		Bromoform	<5.0		µg/L	0	WA
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<10		µg/L	0	WA
		Bromomethane (Methyl bromide)	<10		µg/L	0	WA
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	WA
		Cadmium	<2.0		µg/L	0	WA
		Calcium	836		µg/L	0	GE
		Calcium	839		µg/L	0	GE
		Calcium	836		µg/L	0	GE
		Calcium	841	V	µg/L	0	WA
		Calcium	807	V	µg/L	0	WA
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<5.0		µg/L	0	WA
		Carbon tetrachloride	<5.0		µg/L	0	WA
		Chloride	2,220		µg/L	0	GE
		Chloride	2,230		µg/L	0	GE
		Chloride	2,280		µg/L	0	GE
		Chloride	2,190		µg/L	0	WA
		Chloride	2,270		µg/L	0	WA
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<5.0		µg/L	0	WA
		Chlorobenzene	<5.0		µg/L	0	WA
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<10		µg/L	0	WA
		Chloroethane	<10		µg/L	0	WA
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<10		µg/L	0	WA
		Chloroethene (Vinyl chloride)	<10		µg/L	0	WA
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<10		µg/L	0	WA
		2-Chloroethyl vinyl ether	<10		µg/L	0	WA

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WELL BGX 12C collected on 05/18/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Chloroform	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloroform	< 1.0		µg/L	0	GE
		Chloroform	< 5.0		µg/L	0	WA
		Chloroform	< 5.0		µg/L	0	WA
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	< 1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	3.5	J	µg/L	0	WA
		Chloromethane (Methyl chloride)	< 10		µg/L	0	WA
		Chromium	< 4.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	GE
		Chromium	< 4.0		µg/L	0	WA
		Chromium	< 4.0		µg/L	0	WA
		Copper	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	GE
		Copper	< 4.0		µg/L	0	WA
		Copper	< 4.0		µg/L	0	WA
		Cyanide	< 2.5	J6	µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	GE
		Cyanide	< 5.0		µg/L	0	WA
		Cyanide	< 5.0		µg/L	0	WA
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 1.0		µg/L	0	GE
		Dibromochloromethane	< 5.0		µg/L	0	WA
		Dibromochloromethane	< 5.0		µg/L	0	WA
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethane	< 5.0		µg/L	0	WA
		1,1-Dichloroethane	< 5.0		µg/L	0	WA
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 5.0		µg/L	0	WA
		1,2-Dichloroethane	< 5.0		µg/L	0	WA
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 5.0		µg/L	0	WA
		1,1-Dichloroethylene	< 5.0		µg/L	0	WA
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 5.0		µg/L	0	WA
		trans-1,2-Dichloroethylene	< 5.0		µg/L	0	WA
		Dichloromethane (Methylene chloride)	1.2	JV	µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0	JV	µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0	JV	µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 5.0		µg/L	0	WA
■		Dichloromethane (Methylene chloride)	14		µg/L	2	WA
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	< 0.30		µg/L	0	GE

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WELL BGX 12C collected on 05/18/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		2,4-Dichlorophenoxyacetic acid	<1.1		µg/L	0	WA
		2,4-Dichlorophenoxyacetic acid	<1.1		µg/L	0	WA
		2,4-Dichlorophenoxyacetic acid	<2.2		µg/L	0	WA
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<5.0		µg/L	0	WA
		1,2-Dichloropropane	<5.0		µg/L	0	WA
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<5.0		µg/L	0	WA
		cis-1,3-Dichloropropene	<5.0		µg/L	0	WA
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<5.0		µg/L	0	WA
		trans-1,3-Dichloropropene	<5.0		µg/L	0	WA
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.0060		µg/L	0	GE
		Endrin	<0.11		µg/L	0	WA
		Endrin	<0.11		µg/L	0	WA
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<5.0		µg/L	0	WA
		Ethylbenzene	<5.0		µg/L	0	WA
		Fluoride	<100		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Fluoride	<100		µg/L	0	WA
		Fluoride	<100		µg/L	0	WA
		Iron	38		µg/L	0	GE
		Iron	38		µg/L	0	GE
		Iron	46		µg/L	0	GE
		Iron	35	J2	µg/L	0	GE
		Iron	40		µg/L	0	WA
		Iron	33		µg/L	0	WA
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	WA
		Lead	<3.0		µg/L	0	WA
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Lindane	<0.056		µg/L	0	WA
		Lindane	<0.056		µg/L	0	WA
		Magnesium	385		µg/L	0	GE
		Magnesium	387		µg/L	0	GE
		Magnesium	389		µg/L	0	GE
		Magnesium	356	V	µg/L	0	WA
		Magnesium	333	V	µg/L	0	WA
		Manganese	22		µg/L	0	GE
		Manganese	22		µg/L	0	GE
		Manganese	23		µg/L	0	GE
		Manganese	21		µg/L	0	WA

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 12C collected on 05/18/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Manganese	20		µg/L	0	WA
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	WA
		Mercury	<0.20		µg/L	0	WA
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.56		µg/L	0	WA
		Methoxychlor	<0.56		µg/L	0	WA
		Naphthalene	<10		µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	WA
		Nickel	<4.0		µg/L	0	WA
		Nitrate as nitrogen	149		µg/L	0	WA
		Nitrate as nitrogen	138		µg/L	0	WA
		Nitrate-nitrite as nitrogen	170		µg/L	0	GE
		Nitrate-nitrite as nitrogen	170		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	WA
		Phenols	<5.0		µg/L	0	WA
		Phenols	<5.0		µg/L	0	WA
		Potassium	<500		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Potassium	582	J3	µg/L	0	WA
		Potassium	540	J3	µg/L	0	WA
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	WA
		Selenium	<2.0		µg/L	0	WA
		Silica	13,500		µg/L	0	GE
		Silica	13,500		µg/L	0	GE
		Silica	13,600		µg/L	0	GE
		Silica	12,000		µg/L	0	WA
		Silica	11,300		µg/L	0	WA
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	WA
		Silver	<2.0		µg/L	0	WA
		Sodium	4,360		µg/L	0	GE
		Sodium	4,350		µg/L	0	GE
		Sodium	4,410		µg/L	0	GE
		Sodium	4,090	V	µg/L	0	WA
		Sodium	3,810	V	µg/L	0	WA
		Sulfate	1,560		µg/L	0	GE
		Sulfate	1,550		µg/L	0	GE
		Sulfate	1,610		µg/L	0	GE
		Sulfate	1,460		µg/L	0	WA
		Sulfate	1,460		µg/L	0	WA
		Sulfate	1,300		µg/L	0	WA

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WELL BGX 12C collected on 05/18/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<5.0		µg/L	0	WA
		1,1,2,2-Tetrachloroethane	<5.0		µg/L	0	WA
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<5.0		µg/L	0	WA
		Tetrachloroethylene	<5.0		µg/L	0	WA
		Tin	<2.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	<9.5		µg/L	0	WA
		Tin	<9.5		µg/L	0	WA
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<5.0		µg/L	0	WA
		Toluene	<5.0		µg/L	0	WA
		Total dissolved solids	17,000		µg/L	0	GE
		Total dissolved solids	25,000		µg/L	0	GE
		Total dissolved solids	36,000		µg/L	0	WA
		Total dissolved solids	22,000		µg/L	0	WA
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	WA
		Total organic carbon	<1,000		µg/L	0	WA
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	WA
		Total organic halogens	<5.0		µg/L	0	WA
		Total organic halogens	<5.0		µg/L	0	WA
		Total phosphates (as P)	<50		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	WA
		Total phosphates (as P)	<50		µg/L	0	WA
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<1.1		µg/L	0	WA
		Toxaphene	<1.1		µg/L	0	WA
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.55		µg/L	0	WA
		2,4,5-TP (Silvex)	<0.55		µg/L	0	WA
		2,4,5-TP (Silvex)	<1.1		µg/L	0	WA
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<5.0		µg/L	0	WA
		1,1,1-Trichloroethane	<5.0		µg/L	0	WA
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<5.0		µg/L	0	WA

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WELL BGX 12C collected on 05/18/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1,2-Trichloroethane	< 5.0		µg/L	0	WA
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichloroethylene	< 5.0		µg/L	0	WA
		Trichloroethylene	< 5.0		µg/L	0	WA
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 5.0		µg/L	0	WA
		Trichlorofluoromethane	< 5.0		µg/L	0	WA
		Vanadium	< 8.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Vanadium	< 3.0		µg/L	0	WA
		Vanadium	< 3.0		µg/L	0	WA
		Xylenes	< 2.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Xylenes	< 5.0		µg/L	0	WA
		Xylenes	< 5.0		µg/L	0	WA
		Gross alpha	< 2.0E + 00		pCi/L	0	GE
		Gross alpha	< 2.0E + 00		pCi/L	0	GE
		Gross alpha	< 5.0E-01		pCi/L	0	TM
		Gross alpha	< 6.0E-01		pCi/L	0	TM
		Gross alpha	< 6.0E-01		pCi/L	0	TM
		Nonvolatile beta	< 2.0E + 00		pCi/L	0	GE
		Nonvolatile beta	< 2.0E + 00		pCi/L	0	GE
		Nonvolatile beta	< 7.0E-01		pCi/L	0	TM
		Nonvolatile beta	2.7E + 00 ± 1.9E + 00		pCi/L	0	TM
		Nonvolatile beta	4.9E + 00 ± 2.1E + 00		pCi/L	0	TM
		Radium-226	< 2.2E-01		pCi/L	0	TM
		Radium-226	< 2.2E-01		pCi/L	0	TM
		Radium-226	< 2.3E-01		pCi/L	0	TM
		Radium-228	2.1E + 00 ± 1.3E + 00	J2	pCi/L	0	TM
		Radium-228	3.2E + 01 ± 3.1E + 00	J2	pCi/L	2	TM
		Radium-228	3.2E + 00 ± 1.4E + 00	J2	pCi/L	0	TM
		Radium, total alpha-emitting	< 1.0E + 00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E + 00		pCi/L	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Tritium	< 7.0E-01		pCi/mL	0	GE
		Tritium	< 1.5E-01		pCi/mL	0	TM
		Tritium	< 1.5E-01		pCi/mL	0	TM
		Tritium	< 1.5E-01		pCi/mL	0	TM

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WELL BGX 12D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N74410.9 E59674.3	33.287714 °N 81.654207 °W	243.7-223.7 ft msl	275.2 ft msl	4" PVC	S	Water table (IIB ₂)

FIELD MEASUREMENTS

Sample date: 05/18/93
 Depth to water: 32.89 ft (10.02 m) below TOC
 Water elevation: 242.31 ft (73.86 m) msl
 Sp. conductance: 21 μ S/cm
 Water evacuated before sampling: 7 gal
 The well went dry during purging.

Time: 8:23
 pH: 5.0
 Alkalinity: 0 mg/L
 Water temperature: 19.2 °C
 Volumes purged: 0.6 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	4.8	J	pH	0	GE
		Specific conductance	20		μ S/cm	0	GE
		Turbidity	23		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	125		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	17		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	542		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,650		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	7.5		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.4	JV	μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL BGX 12D collected on 05/18/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Iron	230		µg/L	1	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	506		µg/L	0	GE
		Manganese	10.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	90		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	5,670		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	2,060		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	12,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	1.2E+00 ± 7.0E-01		pCi/L	0	GE
		Tritium	1.7E+01 ± 7.0E-01		pCi/mL	1	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HMD 1D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N78731.7 E56973.3	33.292863 °N 81.669714 °W	219.7-199.7 ft msl	264.5 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 04/28/93
 Depth to water: 52.37 ft (15.96 m) below TOC
 Water elevation: 212.13 ft (64.66 m) msl
 Sp. conductance: 70 μ S/cm
 Water evacuated before sampling: 6 gal
 The well went dry during purging.

Time: 12:05
 pH: 6.7
 Alkalinity: 17 mg/L
 Water temperature: 17.2 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.6	J	pH	0	GE
		Specific conductance	71		μ S/cm	0	GE
		Turbidity	32		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	331		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	7.5		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	988	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,350		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	1.1		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	365		μ g/L	2	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HMD 1D collected on 04/28/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Lead	4.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	186		µg/L	0	GE
		Manganese	23		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	190		µg/L	0	GE
		Phenols	6.1		µg/L	0	GE
		Potassium	2,760		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	5,820	J2	µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	10,200		µg/L	0	GE
		Sulfate	7,940		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	7.7		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	49,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	8.7		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Gross alpha	3.2E+00 ± 1.7E+00		pCi/L	0	GE
		Nonvolatile beta	2.0E+00 ± 1.1E+00		pCi/L	0	GE
		Radium, total alpha-emitting	2.6E+00 ± 7.0E-01		pCi/L	0	GE
		Tritium	6.5E+00 ± 5.0E-01		pCi/mL	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HMD 2D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N79665.8 E57269.7	33.295413 °N 81.670748 °W	210.8-190.8 ft msl	261.1 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 04/28/93
 Depth to water: 57.54 ft (17.54 m) below TOC
 Water elevation: 203.56 ft (62.05 m) msl
 Sp. conductance: 71 μ S/cm
 Water evacuated before sampling: 110 gal

Time: 13:11
 pH: 5.8
 Alkalinity: 9 mg/L
 Water temperature: 18.9 °C
 Volumes purged: 13.1 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	6.2	J	pH	0	GE
		Specific conductance	56		μ S/cm	0	GE
		Turbidity	0.68		NTU	0	GE
		Acetophenone	<1.0		μ g/L	0	GE
		Aluminum	38		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	<3.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	232	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,240		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE

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WELL HMD 2D collected on 04/28/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Fluoride	< 100		µg/L	0	GE
		Iron	32		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Magnesium	76		µg/L	0	GE
		Manganese	4.3		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Methoxychlor	< 0.50		µg/L	0	GE
		Naphthalene	< 10		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	190		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	< 500		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	5,670	J2	µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	13,100		µg/L	0	GE
		Sulfate	10,500		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tin	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	48,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	90		µg/L	0	GE
		Toxaphene	< 0.24		µg/L	0	GE
		2,4,5-TP (Silvex)	< 0.090		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Xylenes	< 2.0		µg/L	0	GE
		Gross alpha	< 2.0E+00		pCi/L	0	GE
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Radium, total alpha-emitting	< 1.0E+00		pCi/L	0	GE
		Tritium	7.3E+00 ± 5.0E-01		pCi/mL	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HMD 3D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N79578.7 E57745.2	33.295996 °N 81.669327 °W	207.7-187.7 ft msl	259.5 ft msl	4" PVC	S	Barnwell (IIB ₁)

FIELD MEASUREMENTS

Sample date: 04/29/93
 Depth to water: 56.57 ft (17.24 m) below TOC
 Water elevation: 202.93 ft (61.85 m) msl
 Sp. conductance: 60 μ S/cm
 Water evacuated before sampling: 101 gal

Time: 11:02
 pH: 5.1
 Alkalinity: 0 mg/L
 Water temperature: 18.7 °C
 Volumes purged: 10.1 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.3	J	pH	0	GE
•		pH	5.2	J	pH	0	GE
•		pH	5.4	J	pH	0	GE
•		pH	4.8	J	pH	0	WA
•		pH	4.9	J	pH	0	WA
•		pH	5.0	J	pH	0	WA
		Specific conductance	52		μ S/cm	0	GE
		Specific conductance	51		μ S/cm	0	GE
•		Specific conductance	57	JV	μ S/cm	0	WA
•		Specific conductance	57	JV	μ S/cm	0	WA
•		Specific conductance	57	JV	μ S/cm	0	WA
		Turbidity	6.4		NTU	0	GE
		Turbidity	6.1		NTU	0	GE
		Turbidity	4.3		NTU	0	GE
•		Turbidity	7.1	J	NTU	0	WA
•		Turbidity	7.4	J	NTU	0	WA
•		Turbidity	7.9	J	NTU	0	WA
		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Acetophenone	<10		μ g/L	0	GE
		Acetophenone	<11		μ g/L	0	WA
		Acetophenone	<11		μ g/L	0	WA
		Aluminum	67		μ g/L	2	GE
		Aluminum	59		μ g/L	2	GE
		Aluminum	85		μ g/L	2	GE
		Aluminum	87		μ g/L	2	GE
		Aluminum	116		μ g/L	2	WA
		Aluminum	52		μ g/L	2	WA
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<3.0		μ g/L	0	WA
		Antimony	<3.0		μ g/L	0	WA
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	WA
		Arsenic	<2.0		μ g/L	0	WA
		Barium	9.9		μ g/L	0	GE

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WELL HMD 3D collected on 04/29/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Barium	9.8		µg/L	0	GE
		Barium	10		µg/L	0	GE
		Barium	11		µg/L	0	GE
		Barium	9.1		µg/L	0	WA
		Barium	9.2		µg/L	0	WA
		Benzene	<1.0		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Benzene	<5.0		µg/L	0	WA
		Benzene	<5.0		µg/L	0	WA
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromodichloromethane	<5.0		µg/L	0	WA
		Bromodichloromethane	<5.0		µg/L	0	WA
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromoform	<5.0		µg/L	0	WA
		Bromoform	<5.0		µg/L	0	WA
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<10		µg/L	0	WA
		Bromomethane (Methyl bromide)	<10		µg/L	0	WA
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	WA
		Cadmium	<2.0		µg/L	0	WA
		Calcium	1,030		µg/L	0	GE
		Calcium	1,020		µg/L	0	GE
		Calcium	978		µg/L	0	GE
		Calcium	980		µg/L	0	GE
		Calcium	985		µg/L	0	WA
		Calcium	1,050		µg/L	0	WA
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Carbon tetrachloride	<5.0		µg/L	0	WA
		Carbon tetrachloride	<5.0		µg/L	0	WA
		Chloride	2,720		µg/L	0	GE
		Chloride	2,660		µg/L	0	GE
		Chloride	2,690		µg/L	0	GE
		Chloride	2,450		µg/L	0	WA
		Chloride	2,460		µg/L	0	WA
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chlorobenzene	<5.0		µg/L	0	WA
		Chlorobenzene	<5.0		µg/L	0	WA
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane	<10		µg/L	0	WA
		Chloroethane	<10		µg/L	0	WA
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<10		µg/L	0	WA
		Chloroethene (Vinyl chloride)	<10		µg/L	0	WA
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE

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WELL HMD 3D collected on 04/29/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		2-Chloroethyl vinyl ether	<10		µg/L	0	WA
		2-Chloroethyl vinyl ether	<10		µg/L	0	WA
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloroform	<5.0		µg/L	0	WA
		Chloroform	<5.0		µg/L	0	WA
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<10		µg/L	0	WA
		Chloromethane (Methyl chloride)	<10		µg/L	0	WA
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	WA
		Chromium	<4.0		µg/L	0	WA
		Copper	5.0		µg/L	0	GE
		Copper	4.8		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	WA
		Copper	<4.0		µg/L	0	WA
		Cyanide	<5.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	WA
		Cyanide	<5.0		µg/L	0	WA
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		Dibromochloromethane	<5.0		µg/L	0	WA
		Dibromochloromethane	<5.0		µg/L	0	WA
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<5.0		µg/L	0	WA
		1,1-Dichloroethane	<5.0		µg/L	0	WA
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<5.0		µg/L	0	WA
		1,2-Dichloroethane	<5.0		µg/L	0	WA
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<5.0		µg/L	0	WA
		1,1-Dichloroethylene	<5.0		µg/L	0	WA
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<5.0		µg/L	0	WA
		trans-1,2-Dichloroethylene	<5.0		µg/L	0	WA
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<5.0		µg/L	0	WA
		Dichloromethane (Methylene chloride)	<5.0		µg/L	0	WA
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		µg/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<1.1		µg/L	0	WA
		2,4-Dichlorophenoxyacetic acid	<1.1		µg/L	0	WA
		2,4-Dichlorophenoxyacetic acid	<2.2		µg/L	0	WA
		1,2-Dichloropropane	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HMD 3D collected on 04/29/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 5.0		µg/L	0	WA
		1,2-Dichloropropane	< 5.0		µg/L	0	WA
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 5.0		µg/L	0	WA
		cis-1,3-Dichloropropene	< 5.0		µg/L	0	WA
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 5.0		µg/L	0	WA
		trans-1,3-Dichloropropene	< 5.0		µg/L	0	WA
		Endrin	< 0.0060		µg/L	0	GE
		Endrin	< 0.0060		µg/L	0	GE
		Endrin	< 0.11		µg/L	0	WA
		Endrin	< 0.20		µg/L	0	WA
		Endrin	< 0.11		µg/L	0	WA
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 5.0		µg/L	0	WA
		Ethylbenzene	< 5.0		µg/L	0	WA
		Fluoride	< 100		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Fluoride	< 100		µg/L	0	WA
		Fluoride	< 100		µg/L	0	WA
		Iron	59		µg/L	0	GE
		Iron	57		µg/L	0	GE
		Iron	68	J2	µg/L	0	GE
		Iron	69	J2	µg/L	0	GE
		Iron	107		µg/L	0	WA
		Iron	82		µg/L	0	WA
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Lead	< 3.0		µg/L	0	WA
		Lead	< 3.0		µg/L	0	WA
		Lindane	< 0.0050		µg/L	0	GE
		Lindane	< 0.0050		µg/L	0	GE
		Lindane	< 0.056		µg/L	0	WA
		Lindane	< 0.10		µg/L	0	WA
		Lindane	< 0.056		µg/L	0	WA
		Magnesium	525		µg/L	0	GE
		Magnesium	522		µg/L	0	GE
		Magnesium	527		µg/L	0	GE
		Magnesium	525		µg/L	0	GE
		Magnesium	478		µg/L	0	WA
		Magnesium	508		µg/L	0	WA
		Manganese	19		µg/L	0	GE
		Manganese	19		µg/L	0	GE
		Manganese	18		µg/L	0	GE
		Manganese	18		µg/L	0	GE
		Manganese	18		µg/L	0	WA
		Manganese	20		µg/L	0	WA
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	WA

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HMD 3D collected on 04/29/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Mercury	<0.20		µg/L	0	WA
		Mercury	<0.20		µg/L	0	WA
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.50		µg/L	0	GE
		Methoxychlor	<0.56		µg/L	0	WA
		Methoxychlor	<1.0		µg/L	0	WA
		Methoxychlor	<1.0		µg/L	0	WA
		Methoxychlor	<0.56		µg/L	0	WA
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10	J1	µg/L	0	GE
		Naphthalene	<10		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nickel	<4.0		µg/L	0	WA
		Nickel	5.0	J3	µg/L	0	WA
		Nitrate as nitrogen	522		µg/L	0	WA
		Nitrate as nitrogen	467		µg/L	0	WA
		Nitrate-nitrite as nitrogen	520		µg/L	0	GE
		Nitrate-nitrite as nitrogen	510		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Phenols	<5.0		µg/L	0	WA
		Phenols	<5.0		µg/L	0	WA
		Potassium	564		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Potassium	547		µg/L	0	GE
		Potassium	545		µg/L	0	GE
		Potassium	<500		µg/L	0	WA
		Potassium	609	J3	µg/L	0	WA
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	2.0	J3	µg/L	0	WA
		Selenium	<2.0		µg/L	0	WA
		Silica	7,200		µg/L	0	GE
		Silica	7,150		µg/L	0	GE
		Silica	7,060		µg/L	0	GE
		Silica	7,080		µg/L	0	GE
		Silica	5,850		µg/L	0	WA
		Silica	6,370		µg/L	0	WA
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Silver	<2.0		µg/L	0	WA
		Silver	<2.0		µg/L	0	WA
		Sodium	7,680		µg/L	0	GE
		Sodium	7,660		µg/L	0	GE
		Sodium	7,800		µg/L	0	GE
		Sodium	7,830		µg/L	0	GE
		Sodium	6,840	V	µg/L	0	WA
		Sodium	7,120	V	µg/L	0	WA
		Sulfate	12,800		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HMD 3D collected on 04/29/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Sulfate	12,300		µg/L	0	GE
		Sulfate	12,400		µg/L	0	GE
		Sulfate	12,900		µg/L	0	WA
		Sulfate	12,700		µg/L	0	WA
		Sulfate	12,700		µg/L	0	WA
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<5.0		µg/L	0	WA
		1,1,2,2-Tetrachloroethane	<5.0		µg/L	0	WA
		Tetrachloroethylene	1.2		µg/L	0	GE
		Tetrachloroethylene	2.1		µg/L	0	GE
		Tetrachloroethylene	<5.0		µg/L	0	WA
		Tetrachloroethylene	<5.0		µg/L	0	WA
		Tin	<2.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	2.8		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Tin	<9.5		µg/L	0	WA
		Tin	<9.5		µg/L	0	WA
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<5.0		µg/L	0	WA
		Toluene	<5.0		µg/L	0	WA
		Total dissolved solids	37,000		µg/L	0	GE
		Total dissolved solids	31,000		µg/L	0	GE
		Total dissolved solids	35,000		µg/L	0	GE
		Total dissolved solids	51,000	V	µg/L	0	WA
		Total dissolved solids	55,000	V	µg/L	0	WA
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	WA
		Total organic carbon	<1,000		µg/L	0	WA
		Total organic halogens	7.7		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	WA
		Total organic halogens	<5.0		µg/L	0	WA
		Total organic halogens	<5.0		µg/L	0	WA
		Total phosphates (as P)	70		µg/L	0	GE
		Total phosphates (as P)	60		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	WA
		Total phosphates (as P)	<50		µg/L	0	WA
		Total phosphates (as P)	<50		µg/L	0	WA
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<0.24		µg/L	0	GE
		Toxaphene	<1.1		µg/L	0	WA
		Toxaphene	<2.0		µg/L	0	WA
		Toxaphene	<2.0		µg/L	0	WA
		Toxaphene	<1.1		µg/L	0	WA
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
		2,4,5-TP (Silvex)	<0.55		µg/L	0	WA
		2,4,5-TP (Silvex)	<0.55		µg/L	0	WA
		2,4,5-TP (Silvex)	<1.1		µg/L	0	WA
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE

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WELL HMD 3D collected on 04/29/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1,1-Trichloroethane	<5.0		µg/L	0	WA
		1,1,1-Trichloroethane	<5.0		µg/L	0	WA
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<5.0		µg/L	0	WA
		1,1,2-Trichloroethane	<5.0		µg/L	0	WA
		Trichloroethylene	1.6		µg/L	0	GE
		Trichloroethylene	2.7		µg/L	1	GE
		Trichloroethylene	<5.0		µg/L	0	WA
		Trichloroethylene	<5.0		µg/L	0	WA
		Trichlorofluoromethane	6.9		µg/L	1	GE
		Trichlorofluoromethane	5.9		µg/L	1	GE
		Trichlorofluoromethane	5.0		µg/L	1	WA
		Trichlorofluoromethane	5.3		µg/L	1	WA
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Vanadium	<3.0		µg/L	0	WA
		Vanadium	<3.0		µg/L	0	WA
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<2.0		µg/L	0	GE
		Xylenes	<5.0		µg/L	0	WA
		Xylenes	<5.0		µg/L	0	WA
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Gross alpha	2.0E+00 ± 1.2E+00		pCi/L	0	TM
		Gross alpha	1.9E+00 ± 1.1E+00		pCi/L	0	TM
		Gross alpha	2.7E+00 ± 1.3E+00		pCi/L	0	TM
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	3.3E+00 ± 1.9E+00		pCi/L	0	TM
		Nonvolatile beta	4.3E+00 ± 2.0E+00		pCi/L	0	TM
		Nonvolatile beta	6.1E+00 ± 2.1E+00		pCi/L	0	TM
		Radium-226	<4.5E-01		pCi/L	0	TM
		Radium-226	3.5E-01 ± 2.1E-01		pCi/L	0	TM
		Radium-226	2.7E-01 ± 1.8E-01		pCi/L	0	TM
		Radium-228	8.0E-01 ± 1.0E+00		pCi/L	0	TM
		Radium-228	<4.0E-01		pCi/L	0	TM
		Radium-228	<4.0E-01		pCi/L	0	TM
		Radium, total alpha-emitting	1.3E+00 ± 5.0E-01		pCi/L	0	GE
		Radium, total alpha-emitting	1.7E+00 ± 6.0E-01		pCi/L	0	GE
		Tritium	4.7E+00 ± 4.0E-01		pCi/mL	0	GE
		Tritium	4.5E+00 ± 4.0E-01		pCi/mL	0	GE
		Tritium	6.1E+00 ± 2.1E+00		pCi/mL	0	TM
		Tritium	6.1E+00 ± 2.0E+00		pCi/mL	0	TM
		Tritium	6.1E+00 ± 1.9E+00		pCi/mL	0	TM

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WELL HMD 4D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N79160.4	33.295794 °N	208.9-188.9 ft msl	250.9 ft msl	4" PVC	S	Barnwell (IIB ₁)
E58188.5	81.667346 °W					

FIELD MEASUREMENTS

Sample date: 04/28/93
 Depth to water: 48.05 ft (14.65 m) below TOC
 Water elevation: 202.85 ft (61.83 m) msl
 Sp. conductance: 38 μ S/cm
 Water evacuated before sampling: 8 gal
 The well went dry during purging.

Time: 10:27
 pH: 6.0
 Alkalinity: 6 mg/L
 Water temperature: 18.4 °C
 Volumes purged: 0.9 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	6.2	J	pH	0	GE
		Specific conductance	30		μ S/cm	0	GE
		Turbidity	66		NTU	0	GE
		Acetophenone	<10	J1	μ g/L	0	GE
		Aluminum	143		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	15		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	1,440	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,820		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Copper	24		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		2,4-Dichlorophenoxyacetic acid	<0.30		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Endrin	<0.0060		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HMD 4D collected on 04/28/93, laboratory analyses (cont.)

H D	Analyte	Result	Mod	Unit	Flag	Lab
	Iron	191		µg/L	1	GE
	Lead	6.8		µg/L	0	GE
	Lindane	<0.0050		µg/L	0	GE
	Magnesium	415		µg/L	0	GE
	Manganese	36		µg/L	1	GE
	Mercury	<0.20		µg/L	0	GE
	Methoxychlor	<0.50		µg/L	0	GE
	Naphthalene	<10	J1	µg/L	0	GE
	Nickel	<4.0		µg/L	0	GE
	Nitrate-nitrite as nitrogen	800		µg/L	0	GE
	Phenols	<5.0		µg/L	0	GE
	Potassium	1,650		µg/L	0	GE
	Selenium	<2.0		µg/L	0	GE
	Silica	7,510	J2	µg/L	0	GE
	Silver	<2.0		µg/L	0	GE
	Sodium	3,170		µg/L	0	GE
	Sulfate	<1,000		µg/L	0	GE
	1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
	Tetrachloroethylene	<1.0		µg/L	0	GE
	Tin	<2.0		µg/L	0	GE
	Toluene	<1.0		µg/L	0	GE
	Total dissolved solids	29,000	V	µg/L	0	GE
	Total organic carbon	<1,000		µg/L	0	GE
	Total organic halogens	<5.0		µg/L	0	GE
	Total phosphates (as P)	130		µg/L	0	GE
	Toxaphene	<0.24		µg/L	0	GE
	2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
	2,4,5-TP (Silvex)	<0.090		µg/L	0	GE
	1,1,1-Trichloroethane	<1.0		µg/L	0	GE
	1,1,2-Trichloroethane	<1.0		µg/L	0	GE
	Trichloroethylene	<1.0		µg/L	0	GE
	Trichlorofluoromethane	<1.0		µg/L	0	GE
	Vanadium	<8.0		µg/L	0	GE
	Xylenes	<2.0		µg/L	0	GE
	Gross alpha	2.2E+00 ± 1.3E+00		pCi/L	0	GE
	Nonvolatile beta	2.3E+00 ± 1.1E+00		pCi/L	0	GE
	Radium, total alpha-emitting	2.3E+00 ± 7.0E-01		pCi/L	0	GE
	Tritium	7.5E+00 ± 5.0E-01		pCi/mL	0	GE

WELL HSB 85A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73791.9	33.285152 °N	71.1-61.1 ft msl	294.4 ft msl	4" PVC	S	
E58943.4	81.654930 °W					

FIELD MEASUREMENTS

Sample date: 04/15/93
 Depth to water: 124.73 ft (38.02 m) below TOC
 Water elevation: 169.67 ft (51.72 m) msl
 Sp. conductance: 187 µS/cm
 Water evacuated before sampling: 261 gal

Time: 15:31
 pH: 7.0
 Alkalinity: 46 mg/L
 Water temperature: 19.9 °C
 Volumes purged: 3.7 well volumes

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

LABORATORY ANALYSES for HSB 85A (collected on 04/15/93)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.0	J	pH	0	GE
		Specific conductance	158		µS/cm	0	GE
		Aluminum	<20		µg/L	0	GE
		Antimony	<2.0		µg/L	0	GE
		Arsenic	<2.0		µg/L	0	GE
		Barium	30		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	34,100		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	2,280		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0	JV	µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	13		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Magnesium	835		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	260		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	1,070		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	28,900		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	1,780		µg/L	0	GE
		Sulfate	6,340		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	109,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85A collected on 04/15/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Actinium-228	<3.0E+01		pCi/L	0	GP
		Americium-241	<1.0E+00		pCi/L	0	GP
		Antimony-125	<2.0E+01		pCi/L	0	GP
		Cerium-144	<6.0E+01		pCi/L	0	GP
		Cesium-134	<1.0E+01		pCi/L	0	GP
		Cesium-137	<1.0E+01		pCi/L	0	GP
		Cobalt-57	<1.0E+01		pCi/L	0	GP
		Cobalt-60	<1.0E+01		pCi/L	0	GP
		Curium-242	<1.0E+00		pCi/L	0	GP
		Curium-243/244	<1.0E+00		pCi/L	0	GP
		Curium-245/246	<1.0E+00		pCi/L	0	GP
		Europium-152	<4.0E+01		pCi/L	0	GP
		Europium-154	<2.0E+01		pCi/L	0	GP
		Europium-155	<3.0E+01		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Iodine-129	<2.0E+00		pCi/L	0	GP
		Lead-212	<1.5E+01		pCi/L	0	GP
		Manganese-54	<1.0E+01		pCi/L	0	GP
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Plutonium-238	<1.0E+00		pCi/L	0	GP
		Plutonium-239/240	<1.0E+00		pCi/L	0	GP
		Potassium-40	<1.1E+02		pCi/L	0	GP
		Promethium-144	<1.0E+01		pCi/L	0	GP
		Promethium-146	<1.0E+01		pCi/L	0	GP
		Radium-226	<1.0E+00		pCi/L	0	GP
		Radium-228	1.1E+00 ± 8.0E-01		pCi/L	0	GP
		Radium, total alpha-emitting	1.6E+00 ± 6.0E-01		pCi/L	0	GE
		Ruthenium-106	<9.0E+01		pCi/L	0	GP
		Sodium-22	<1.0E+01		pCi/L	0	GP
		Strontium-89	<2.0E+00		pCi/L	0	GP
		Strontium-90	<2.0E+00		pCi/L	0	GP
		Technetium-99	<3.0E+02		pCi/L	0	GP
		Thorium-228	<1.0E+00		pCi/L	0	GP
		Thorium-230	<1.0E+00		pCi/L	0	GP
		Thorium-232	<1.0E+00		pCi/L	0	GP
		Thorium-234	<3.5E+02		pCi/L	0	GP
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP
		Yttrium-88	<6.0E+01		pCi/L	0	GP
		Zinc-65	<2.0E+01		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N73791.9 E58943.4	33.285152 °N 81.654930 °W	71.1-61.1 ft msl	294.4 ft msl	4" PVC	S	

FIELD MEASUREMENTS

Sample date: 05/04/93
 Depth to water: 124.70 ft (38.01 m) below TOC
 Water elevation: 169.70 ft (51.73 m) msl
 Sp. conductance: 196 μ S/cm
 Water evacuated before sampling: 96 gal

Time: 14:56
 pH: 6.9
 Alkalinity: 63 mg/L
 Water temperature: 20.0 °C
 Volumes purged: 1.3 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	7.1	J	pH	0	GE
		Specific conductance	190		μ S/cm	0	GE
		Aluminum	<20		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	29		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	35,800		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,070		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Cobalt	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85A collected on 05/04/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		1,1-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,2-Dichloroethane	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		1,1-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		1,2-Dichloropropane	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Ethylbenzene	< 1.0		µg/L	0	GE
		Fluoride	< 100		µg/L	0	GE
		Iron	7.6		µg/L	0	GE
		Lead	< 3.0		µg/L	0	GE
		Magnesium	834		µg/L	0	GE
		Manganese	< 2.0		µg/L	0	GE
		Mercury	< 0.20		µg/L	0	GE
		Nickel	< 4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	< 50		µg/L	0	GE
		Phenols	< 5.0		µg/L	0	GE
		Potassium	1,040		µg/L	0	GE
		Selenium	< 2.0	J1	µg/L	0	GE
		Silica	29,200		µg/L	0	GE
		Silver	< 2.0		µg/L	0	GE
		Sodium	1,750		µg/L	0	GE
		Sulfate	6,070		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Tetrachloroethylene	< 1.0		µg/L	0	GE
		Thallium	< 2.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Toluene	< 1.0		µg/L	0	GE
		Total dissolved solids	133,000	V	µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic carbon	< 1,000		µg/L	0	GE
		Total organic halogens	< 5.0		µg/L	0	GE
		Total phosphates (as P)	100		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,1-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		1,1,2-Trichloroethane	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichloroethylene	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Zinc	2.8		µg/L	0	GE
		Actinium-228	< 3.0E + 01		pCi/L	0	GP
		Americium-241	< 1.0E + 00		pCi/L	0	GP

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WELL HSB 85A collected on 05/04/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Americium-241	<1.0E+00		pCi/L	0	GP
		Antimony-125	<2.0E+01		pCi/L	0	GP
		Cerium-144	<6.0E+01		pCi/L	0	GP
		Cesium-134	<1.0E+01		pCi/L	0	GP
		Cesium-137	<1.0E+01		pCi/L	0	GP
		Cobalt-57	<1.0E+01		pCi/L	0	GP
		Cobalt-60	<1.0E+01		pCi/L	0	GP
		Curium-242	<1.0E+00		pCi/L	0	GP
		Curium-242	<1.0E+00		pCi/L	0	GP
		Curium-243/244	<1.0E+00		pCi/L	0	GP
		Curium-243/244	<1.0E+00		pCi/L	0	GP
		Curium-245/246	<1.0E+00		pCi/L	0	GP
		Curium-245/246	<1.0E+00		pCi/L	0	GP
		Europium-152	<4.0E+01		pCi/L	0	GP
		Europium-154	<2.0E+01		pCi/L	0	GP
		Europium-155	<3.0E+01		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Iodine-129	<2.0E+00		pCi/L	0	GP
		Iodine-129	<2.0E+00		pCi/L	0	GP
		Lead-212	<1.5E+01		pCi/L	0	GP
		Manganese-54	<1.0E+01		pCi/L	0	GP
		Nonvolatile beta	2.5E+00 ± 1.1E+00		pCi/L	0	GE
		Plutonium-238	<1.0E+00		pCi/L	0	GP
		Plutonium-239/240	<1.0E+00		pCi/L	0	GP
		Potassium-40	<1.1E+02		pCi/L	0	GP
		Promethium-144	<1.0E+01		pCi/L	0	GP
		Promethium-146	<1.0E+01		pCi/L	0	GP
		Radium-226	<1.0E+00		pCi/L	0	GP
		Radium-228	1.7E+00 ± 1.0E+00		pCi/L	0	GP
		Radium-228	<1.0E+00		pCi/L	0	GP
		Radium, total alpha-emitting	1.7E+00 ± 6.0E-01		pCi/L	0	GE
		Radium, total alpha-emitting	1.8E+00 ± 6.0E-01		pCi/L	0	GE
		Ruthenium-106	<9.0E+01		pCi/L	0	GP
		Sodium-22	<1.0E+01		pCi/L	0	GP
		Strontium-89	<2.0E+00		pCi/L	0	GP
		Strontium-89	<2.0E+00		pCi/L	0	GP
		Strontium-90	<2.0E+00		pCi/L	0	GP
		Strontium-90	<2.0E+00		pCi/L	0	GP
		Technetium-99	<3.0E+02		pCi/L	0	GP
		Thorium-228	<1.0E+00		pCi/L	0	GP
		Thorium-230	<1.0E+00		pCi/L	0	GP
		Thorium-232	<1.0E+00		pCi/L	0	GP
		Thorium-234	<3.5E+02		pCi/L	0	GP
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP
		Yttrium-88	<6.0E+01		pCi/L	0	GP
		Zinc-65	<2.0E+01		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73791.9 E58943.4	33.285152 °N 81.654930 °W	71.1-61.1 ft msl	294.4 ft msl	4" PVC	S	

FIELD MEASUREMENTS

Sample date: 06/10/93
 Depth to water: 124.87 ft (38.06 m) below TOC
 Water elevation: 169.53 ft (51.67 m) msl
 Sp. conductance: 191 μ S/cm
 Water evacuated before sampling: 211 gal

Time: 10:28
 pH: 7.0
 Alkalinity: 26 mg/L
 Water temperature: 20.0 °C
 Volumes purged: 3.0 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	7.1	J	pH	0	GE
		Specific conductance	168		μ S/cm	0	GE
		Aluminum	<20		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	29		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bis(2-ethylhexyl) phthalate	<10	J1	μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	35,900		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,540		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Cobalt	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE
		1,2-Dichloroethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethylene	<1.0		μ g/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		μ g/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		μ g/L	0	GE
		1,2-Dichloropropane	<1.0		μ g/L	0	GE
		cis-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		trans-1,3-Dichloropropene	<1.0		μ g/L	0	GE
		Ethylbenzene	<1.0		μ g/L	0	GE
		Fluoride	<100		μ g/L	0	GE
		Iron	<4.0		μ g/L	0	GE
		Lead	<3.0		μ g/L	0	GE
		Magnesium	828		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85A collected on 06/10/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	<50		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	875		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	29,200		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	1,710		µg/L	0	GE
		Sulfate	6,230		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Thallium	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	131,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	50		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Actinium-228	<3.0E+01		pCi/L	0	GP
		Americium-241	<1.0E+00		pCi/L	0	GP
		Antimony-125	<2.0E+01		pCi/L	0	GP
		Cerium-144	<6.0E+01		pCi/L	0	GP
		Cesium-134	<1.0E+01		pCi/L	0	GP
		Cesium-137	<1.0E+01		pCi/L	0	GP
		Cobalt-57	<1.0E+01		pCi/L	0	GP
		Cobalt-60	<1.0E+01		pCi/L	0	GP
		Curium-242	<1.0E+00		pCi/L	0	GP
		Curium-243/244	<1.0E+00		pCi/L	0	GP
		Curium-245/246	<1.0E+00		pCi/L	0	GP
		Europium-152	<4.0E+01		pCi/L	0	GP
		Europium-154	<2.0E+01		pCi/L	0	GP
		Europium-155	<3.0E+01		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Iodine-129	<2.0E+00		pCi/L	0	GP
		Lead-212	<1.5E+01		pCi/L	0	GP
		Manganese-54	<1.0E+01		pCi/L	0	GP
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Plutonium-238	<1.0E+00		pCi/L	0	GP
		Plutonium-239/240	<1.0E+00		pCi/L	0	GP
		Potassium-40	<1.1E+02		pCi/L	0	GP
		Promethium-144	<1.0E+01		pCi/L	0	GP
		Promethium-146	<1.0E+01		pCi/L	0	GP
		Radium-226	<1.0E+00		pCi/L	0	GP
		Radium-228	2.5E+00 ± 9.0E-01		pCi/L	0	GP
		Radium, total alpha-emitting	1.0E+00 ± 5.0E-01		pCi/L	0	GE
		Ruthenium-106	<9.0E+01		pCi/L	0	GP
		Sodium-22	<1.0E+01		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85A collected on 06/10/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Strontium-89	<2.0E+00		pCi/L	0	GP
		Strontium-90	<2.0E+00		pCi/L	0	GP
		Technetium-99	<3.0E+02		pCi/L	0	GP
		Thorium-228	<1.0E+00		pCi/L	0	GP
		Thorium-230	<1.0E+00		pCi/L	0	GP
		Thorium-232	<1.0E+00		pCi/L	0	GP
		Thorium-234	<3.5E+02		pCi/L	0	GP
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP
		Yttrium-88	<6.0E+01		pCi/L	0	GP
		Zinc-65	<2.0E+01		pCi/L	0	GP

WELL HSB 85B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N73789.3	33.285162 °N	143.2-133.2 ft msl	294.5 ft msl	4" PVC	S	
E58953.3	81.654898 °W					

FIELD MEASUREMENTS

Sample date: 04/23/93
 Depth to water: 58.34 ft (17.78 m) below TOC
 Water elevation: 236.16 ft (71.98 m) msl
 Sp. conductance: 163 μ S/cm
 Water evacuated before sampling: 50 gal
 The well went dry during purging.

Time: 11:22
 pH: 10.8
 Alkalinity: 52 mg/L
 Water temperature: 19.6 °C
 Volumes purged: 0.7 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	11	J	pH	2	GE
		Specific conductance	135		μ S/cm	0	GE
		Aluminum	1,390		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	27		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	16,300	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,770		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85B collected on 04/23/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Cobalt	<4.0		µg/L	0	GE
		Copper	<4.0		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	122		µg/L	0	GE
		Iron	5.3		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	432		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	340		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	3,290		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	13,100		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	7,710		µg/L	0	GE
		Sulfate	3,110		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	7.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	89,000	V	µg/L	0	GE
		Total organic carbon	1,960		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Zinc	<2.0		µg/L	0	GE
		Actinium-228	<3.0E+01		pCi/L	0	GP
		Americium-241	<1.0E+00		pCi/L	0	GP
		Antimony-125	<2.0E+01		pCi/L	0	GP
		Cerium-144	<6.0E+01		pCi/L	0	GP
		Cesium-134	<1.0E+01		pCi/L	0	GP
		Cesium-137	<1.0E+01		pCi/L	0	GP
		Cobalt-57	<1.0E+01		pCi/L	0	GP
		Cobalt-60	<1.0E+01		pCi/L	0	GP
		Curium-242	<1.0E+00		pCi/L	0	GP
		Curium-243/244	<1.0E+00		pCi/L	0	GP
		Curium-245/246	<1.0E+00		pCi/L	0	GP
		Europium-152	<4.0E+01		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85B collected on 04/23/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Europium-154	<2.0E+01		pCi/L	0	GP
		Europium-155	<3.0E+01		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Iodine-129	<2.0E+00		pCi/L	0	GP
		Lead-212	1.9E+01 ± 9.5E+00		pCi/L	0	GP
		Manganese-54	<1.0E+01		pCi/L	0	GP
		Nonvolatile beta	3.1E+00 ± 1.1E+00		pCi/L	0	GE
		Plutonium-238	<1.0E+00		pCi/L	0	GP
		Plutonium-239/240	<1.0E+00		pCi/L	0	GP
		Potassium-40	<1.1E+02		pCi/L	0	GP
		Promethium-144	<1.0E+01		pCi/L	0	GP
		Promethium-146	<1.0E+01		pCi/L	0	GP
		Radium-226	<1.0E+00		pCi/L	0	GP
		Radium-226	<1.0E+00		pCi/L	0	GP
		Radium-228	1.2E+00 ± 7.0E-01		pCi/L	0	GP
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Ruthenium-106	<9.0E+01		pCi/L	0	GP
		Sodium-22	<1.0E+01		pCi/L	0	GP
		Strontium-89	<2.0E+00		pCi/L	0	GP
		Strontium-89	<2.0E+00		pCi/L	0	GP
		Strontium-90	<2.0E+00		pCi/L	0	GP
		Strontium-90	4.9E+00 ± 1.3E+00		pCi/L	1	GP
		Technetium-99	<3.0E+02		pCi/L	0	GP
		Thorium-228	<1.0E+00		pCi/L	0	GP
		Thorium-230	<1.0E+00		pCi/L	0	GP
		Thorium-232	<1.0E+00		pCi/L	0	GP
		Thorium-234	<3.5E+02		pCi/L	0	GP
		Tritium	8.5E-01 ± 3.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP
		Yttrium-88	<6.0E+01		pCi/L	0	GP
		Zinc-65	<2.0E+01		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N73789.3	33.285162 °N	143.2-133.2 ft msl	294.5 ft msl	4" PVC	S	
E58953.3	81.654898 °W					

FIELD MEASUREMENTS

Sample date: 05/12/93
 Depth to water: 58.36 ft (17.79 m) below TOC
 Water elevation: 236.14 ft (71.98 m) msl
 Sp. conductance: 115 μ S/cm
 Water evacuated before sampling: 51 gal
 The well went dry during purging.

Time: 9:30
 pH: 10.1
 Alkalinity: 15 mg/L
 Water temperature: 20.0 °C
 Volumes purged: 0.8 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	9.8	J	pH	1	GE
		Specific conductance	106		μ S/cm	0	GE
		Aluminum	1,300		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	20		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	10,300	J2	μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	1,680		μ g/L	0	GE
		Chloride	1,710		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	<4.0		μ g/L	0	GE
		Cobalt	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE
		1,1-Dichloroethane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85B collected on 05/12/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	110	V	µg/L	0	GE
		Iron	6.1		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	648		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	260		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	2,650		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	11,900		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	7,620		µg/L	0	GE
		Sulfate	3,110		µg/L	0	GE
		Sulfate	3,050		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	2.1		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	64,000	V	µg/L	0	GE
		Total organic carbon	1,330		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85B collected on 05/12/93, laboratory analyses (cont.)

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
		Zinc	2.0		µg/L	0	GE
		Actinium-228	<3.0E+01		pCi/L	0	GP
		Americium-241	<1.0E+00		pCi/L	0	GP
		Antimony-125	<2.0E+01		pCi/L	0	GP
		Cerium-144	<6.0E+01		pCi/L	0	GP
		Cesium-134	<1.0E+01		pCi/L	0	GP
		Cesium-137	<1.0E+01		pCi/L	0	GP
		Cobalt-57	<1.0E+01		pCi/L	0	GP
		Cobalt-60	<1.0E+01		pCi/L	0	GP
		Curium-242	<1.0E+00		pCi/L	0	GP
		Curium-243/244	<1.0E+00		pCi/L	0	GP
		Curium-245/246	<1.0E+00		pCi/L	0	GP
		Europium-152	<4.0E+01		pCi/L	0	GP
		Europium-154	<2.0E+01		pCi/L	0	GP
		Europium-155	<3.0E+01		pCi/L	0	GP
		Gross alpha	<2.0E+00		pCi/L	0	GE
		Iodine-129	<2.0E+00		pCi/L	0	GP
		Lead-212	<1.5E+01		pCi/L	0	GP
		Manganese-54	<1.0E+01		pCi/L	0	GP
		Nonvolatile beta	3.5E+00 ± 1.2E+00		pCi/L	0	GE
		Plutonium-238	<1.0E+00		pCi/L	0	GP
		Plutonium-239/240	<1.0E+00		pCi/L	0	GP
		Potassium-40	<1.1E+02		pCi/L	0	GP
		Promethium-144	<1.0E+01		pCi/L	0	GP
		Promethium-146	<1.0E+01		pCi/L	0	GP
		Radium-226	<1.0E+00		pCi/L	0	GP
		Radium-228	<1.0E+00		pCi/L	0	GP
		Radium, total alpha-emitting	<1.0E+00		pCi/L	0	GE
		Ruthenium-106	<9.0E+01		pCi/L	0	GP
		Sodium-22	<1.0E+01		pCi/L	0	GP
		Strontium-89	<2.0E+00		pCi/L	0	GP
		Strontium-90	<2.0E+00		pCi/L	0	GP
		Technetium-99	<3.0E+02		pCi/L	0	GP
		Thorium-228	<1.0E+00		pCi/L	0	GP
		Thorium-230	<1.0E+00		pCi/L	0	GP
		Thorium-232	<1.0E+00		pCi/L	0	GP
		Thorium-234	<3.5E+02		pCi/L	0	GP
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP
		Yttrium-88	<6.0E+01		pCi/L	0	GP
		Zinc-65	<2.0E+01		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Formation</u>
N73789.3	33.285162 °N	143.2-133.2 ft msl	294.5 ft msl	4" PVC	S	
E58953.3	81.654898 °W					

FIELD MEASUREMENTS

Sample date: 06/10/93
 Depth to water: 58.57 ft (17.85 m) below TOC
 Water elevation: 235.93 ft (71.91 m) msl
 Sp. conductance: 150 μ S/cm
 Water evacuated before sampling: 52 gal
 The well went dry during purging.

Time: 9:57
 pH: 10.3
 Alkalinity: 157 mg/L
 Water temperature: 21.0 °C
 Volumes purged: 0.8 well volumes

LABORATORY ANALYSES

<u>H</u>	<u>D</u>	<u>Analyte</u>	<u>Result</u>	<u>Mod</u>	<u>Unit</u>	<u>Flag</u>	<u>Lab</u>
•		pH	8.7	J	pH	1	GE
		Specific conductance	178		μ S/cm	0	GE
		Aluminum	766		μ g/L	2	GE
		Antimony	<2.0		μ g/L	0	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE
		Barium	26		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Benzene	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromodichloromethane	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromoform	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		μ g/L	0	GE
		Cadmium	<2.0		μ g/L	0	GE
		Calcium	27,400		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Carbon tetrachloride	<1.0		μ g/L	0	GE
		Chloride	2,220		μ g/L	0	GE
		Chloride	2,310		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chlorobenzene	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethane	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		Chloroethene (Vinyl chloride)	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloroform	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		μ g/L	0	GE
		Chromium	4.7		μ g/L	0	GE
		Cobalt	<4.0		μ g/L	0	GE
		Copper	<4.0		μ g/L	0	GE
		Cyanide	<5.0		μ g/L	0	GE
		Dibromochloromethane	<1.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85B collected on 06/10/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	78		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
•		Lindane	<0.0050	J	µg/L	0	GE
		Magnesium	766		µg/L	0	GE
		Manganese	<2.0		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	200		µg/L	0	GE
		Nitrate-nitrite as nitrogen	200		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	2,160		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Selenium	<2.0		µg/L	0	GE
		Silica	15,600		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	6,050		µg/L	0	GE
		Sulfate	1,580		µg/L	0	GE
		Sulfate	1,630		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	2.6		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	125,000	V	µg/L	0	GE
		Total dissolved solids	120,000	V	µg/L	0	GE
		Total organic carbon	1,130		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85B collected on 06/10/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Trichloroethylene	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Trichlorofluoromethane	<1.0		µg/L	0	GE
		Vanadium	<8.0		µg/L	0	GE
		Zinc	11		µg/L	0	GE
		Actinium-228	<3.0E+01		pCi/L	0	GP
		Actinium-228	<3.0E+01		pCi/L	0	GP
		Americium-241	<1.0E+00		pCi/L	0	GP
		Americium-241	<1.0E+00		pCi/L	0	GP
		Antimony-125	<2.0E+01		pCi/L	0	GP
		Antimony-125	<2.0E+01		pCi/L	0	GP
		Cerium-144	<6.0E+01		pCi/L	0	GP
		Cerium-144	<6.0E+01		pCi/L	0	GP
		Cesium-134	<1.0E+01		pCi/L	0	GP
		Cesium-134	<1.0E+01		pCi/L	0	GP
		Cesium-137	<1.0E+01		pCi/L	0	GP
		Cesium-137	<1.0E+01		pCi/L	0	GP
		Cobalt-57	<1.0E+01		pCi/L	0	GP
		Cobalt-57	<1.0E+01		pCi/L	0	GP
		Cobalt-60	<1.0E+01		pCi/L	0	GP
		Cobalt-60	<1.0E+01		pCi/L	0	GP
		Curium-242	<1.0E+00		pCi/L	0	GP
		Curium-242	<1.0E+00		pCi/L	0	GP
		Curium-243/244	<1.0E+00		pCi/L	0	GP
		Curium-243/244	<1.0E+00		pCi/L	0	GP
		Curium-245/246	<1.0E+00		pCi/L	0	GP
		Curium-245/246	<1.0E+00		pCi/L	0	GP
		Europium-152	<4.0E+01		pCi/L	0	GP
		Europium-152	<4.0E+01		pCi/L	0	GP
		Europium-154	<2.0E+01		pCi/L	0	GP
		Europium-154	<2.0E+01		pCi/L	0	GP
		Europium-155	<3.0E+01		pCi/L	0	GP
		Europium-155	<3.0E+01		pCi/L	0	GP
		Gross alpha	2.2E+00 ± 1.9E+00		pCi/L	0	GE
		Iodine-129	<2.0E+00		pCi/L	0	GP
		Iodine-129	<2.0E+00		pCi/L	0	GP
		Lead-212	<1.5E+01		pCi/L	0	GP
		Lead-212	<1.5E+01		pCi/L	0	GP
		Manganese-54	<1.0E+01		pCi/L	0	GP
		Manganese-54	<1.0E+01		pCi/L	0	GP
		Nonvolatile beta	<2.0E+00		pCi/L	0	GE
		Plutonium-238	<1.0E+00		pCi/L	0	GP
		Plutonium-238	<1.0E+00		pCi/L	0	GP
		Plutonium-239/240	<1.0E+00		pCi/L	0	GP
		Plutonium-239/240	<1.0E+00		pCi/L	0	GP
		Potassium-40	<1.1E+02		pCi/L	0	GP
		Potassium-40	<1.1E+02		pCi/L	0	GP
		Promethium-144	<1.0E+01		pCi/L	0	GP
		Promethium-144	<1.0E+01		pCi/L	0	GP
		Promethium-146	<1.0E+01		pCi/L	0	GP
		Promethium-146	<1.0E+01		pCi/L	0	GP
		Radium-226	<1.0E+00		pCi/L	0	GP
		Radium-226	<1.0E+00		pCi/L	0	GP
		Radium-228	<1.0E+00		pCi/L	0	GP
		Radium-228	<1.0E+00		pCi/L	0	GP
		Radium, total alpha-emitting	1.1E+00 ± 6.0E-01		pCi/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85B collected on 06/10/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Ruthenium-106	<9.0E+01		pCi/L	0	GP
		Ruthenium-106	<9.0E+01		pCi/L	0	GP
		Sodium-22	<1.0E+01		pCi/L	0	GP
		Sodium-22	<1.0E+01		pCi/L	0	GP
		Strontium-89	<2.0E+00		pCi/L	0	GP
		Strontium-89	<2.0E+00		pCi/L	0	GP
		Strontium-90	<2.0E+00		pCi/L	0	GP
		Strontium-90	<2.0E+00		pCi/L	0	GP
		Technetium-99	<3.0E+02		pCi/L	0	GP
		Technetium-99	<3.0E+02		pCi/L	0	GP
		Thorium-228	<1.0E+00		pCi/L	0	GP
		Thorium-228	<1.0E+00		pCi/L	0	GP
		Thorium-230	<1.0E+00		pCi/L	0	GP
		Thorium-230	<1.0E+00		pCi/L	0	GP
		Thorium-232	<1.0E+00		pCi/L	0	GP
		Thorium-232	<1.0E+00		pCi/L	0	GP
		Thorium-234	<3.5E+02		pCi/L	0	GP
		Thorium-234	<3.5E+02		pCi/L	0	GP
		Tritium	<7.0E-01		pCi/mL	0	GE
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-233/234	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-235	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP
		Uranium-238	<1.0E+00		pCi/L	0	GP
		Yttrium-88	<6.0E+01		pCi/L	0	GP
		Yttrium-88	<6.0E+01		pCi/L	0	GP
		Zinc-65	<2.0E+01		pCi/L	0	GP
		Zinc-65	<2.0E+01		pCi/L	0	GP

WELL HSB 85C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73802.3	33.285182 °N	224.2-214.2 ft msl	294.1 ft msl	4" PVC	S	
E58947.4	81.654939 °W					

FIELD MEASUREMENTS

Sample date: 04/15/93
 Depth to water: 52.22 ft (15.92 m) below TOC
 Water elevation: 241.88 ft (73.73 m) msl
 Sp. conductance: 34 μ S/cm
 Water evacuated before sampling: 88 gal

Time: 15:00
 pH: 4.8
 Alkalinity: 0 mg/L
 Water temperature: 20.4 °C
 Volumes purged: 4.8 well volumes

LABORATORY ANALYSES

H	D	Analyte	Result	Mod	Unit	Flag	Lab
•		pH	5.2	J	pH	0	GE
		Specific conductance	30		μ S/cm	0	GE
		Aluminum	39		μ g/L	1	GE
		Antimony	<2.0		μ g/L	0	GE
		Arsenic	<2.0		μ g/L	0	GE

• = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85C collected on 04/15/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Barium	5.3		µg/L	0	GE
		Benzene	<1.0		µg/L	0	GE
		Bromodichloromethane	<1.0		µg/L	0	GE
		Bromoform	<1.0		µg/L	0	GE
		Bromomethane (Methyl bromide)	<1.0		µg/L	0	GE
		Cadmium	<2.0		µg/L	0	GE
		Calcium	126		µg/L	0	GE
		Carbon tetrachloride	<1.0		µg/L	0	GE
		Chloride	1,990		µg/L	0	GE
		Chlorobenzene	<1.0		µg/L	0	GE
		Chloroethane	<1.0		µg/L	0	GE
		Chloroethane (Vinyl chloride)	<1.0		µg/L	0	GE
		2-Chloroethyl vinyl ether	<1.0		µg/L	0	GE
		Chloroform	<1.0		µg/L	0	GE
		Chloromethane (Methyl chloride)	<1.0		µg/L	0	GE
		Chromium	<4.0		µg/L	0	GE
		Cobalt	<4.0		µg/L	0	GE
		Copper	21		µg/L	0	GE
		Cyanide	<5.0		µg/L	0	GE
		Dibromochloromethane	<1.0		µg/L	0	GE
		1,1-Dichloroethane	<1.0		µg/L	0	GE
		1,2-Dichloroethane	<1.0		µg/L	0	GE
		1,1-Dichloroethylene	<1.0		µg/L	0	GE
		trans-1,2-Dichloroethylene	<1.0		µg/L	0	GE
		Dichloromethane (Methylene chloride)	3.9		µg/L	1	GE
		1,2-Dichloropropane	<1.0		µg/L	0	GE
		cis-1,3-Dichloropropene	<1.0		µg/L	0	GE
		trans-1,3-Dichloropropene	<1.0		µg/L	0	GE
		Ethylbenzene	<1.0		µg/L	0	GE
		Fluoride	<100		µg/L	0	GE
		Iron	<4.0		µg/L	0	GE
		Lead	<3.0		µg/L	0	GE
		Lindane	<0.0050		µg/L	0	GE
		Magnesium	112		µg/L	0	GE
		Manganese	2.4		µg/L	0	GE
		Mercury	<0.20		µg/L	0	GE
		Nickel	<4.0		µg/L	0	GE
		Nitrate-nitrite as nitrogen	2,200		µg/L	0	GE
		Phenols	<5.0		µg/L	0	GE
		Potassium	<500		µg/L	0	GE
		Selenium	<2.0	J1	µg/L	0	GE
		Silica	6,700		µg/L	0	GE
		Silver	<2.0		µg/L	0	GE
		Sodium	4,120		µg/L	0	GE
		Sulfate	<1,000		µg/L	0	GE
		1,1,2,2-Tetrachloroethane	<1.0		µg/L	0	GE
		Tetrachloroethylene	<1.0		µg/L	0	GE
		Tin	<2.0		µg/L	0	GE
		Toluene	<1.0		µg/L	0	GE
		Total dissolved solids	12,000	V	µg/L	0	GE
		Total organic carbon	<1,000		µg/L	0	GE
		Total organic halogens	<5.0		µg/L	0	GE
		Total phosphates (as P)	<50		µg/L	0	GE
		1,1,1-Trichloroethane	<1.0		µg/L	0	GE
		1,1,2-Trichloroethane	<1.0		µg/L	0	GE
		Trichloroethylene	<1.0		µg/L	0	GE

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

WELL HSB 85C collected on 04/15/93, laboratory analyses (cont.)

H	D	Analyte	Result	Mod	Unit	Flag	Lab
		Trichlorofluoromethane	< 1.0		µg/L	0	GE
		Vanadium	< 8.0		µg/L	0	GE
		Zinc	< 2.0		µg/L	0	GE
		Actinium-228	< 3.0E+01		pCi/L	0	GP
		Americium-241	< 1.0E+00		pCi/L	0	GP
		Antimony-125	< 2.0E+01		pCi/L	0	GP
		Cerium-144	< 6.0E+01		pCi/L	0	GP
		Cesium-134	< 1.0E+01		pCi/L	0	GP
		Cesium-137	< 1.0E+01		pCi/L	0	GP
		Cobalt-57	< 1.0E+01		pCi/L	0	GP
		Cobalt-60	< 1.0E+01		pCi/L	0	GP
		Curium-242	< 1.0E+00		pCi/L	0	GP
		Curium-243/244	< 1.0E+00		pCi/L	0	GP
		Curium-245/246	< 1.0E+00		pCi/L	0	GP
		Europium-152	< 4.0E+01		pCi/L	0	GP
		Europium-154	< 2.0E+01		pCi/L	0	GP
		Europium-155	< 3.0E+01		pCi/L	0	GP
		Gross alpha	3.3E+00 ± 1.5E+00		pCi/L	0	GE
		Iodine-129	< 2.0E+00		pCi/L	0	GP
		Lead-212	< 1.5E+01		pCi/L	0	GP
		Manganese-54	< 1.0E+01		pCi/L	0	GP
		Nonvolatile beta	< 2.0E+00		pCi/L	0	GE
		Plutonium-238	< 1.0E+00		pCi/L	0	GP
		Plutonium-239/240	< 1.0E+00		pCi/L	0	GP
		Potassium-40	< 1.1E+02		pCi/L	0	GP
		Promethium-144	< 1.0E+01		pCi/L	0	GP
		Promethium-146	< 1.0E+01		pCi/L	0	GP
		Radium-226	1.9E+00 ± 2.4E-01		pCi/L	0	GP
		Radium-228	1.1E+00 ± 8.0E-01		pCi/L	0	GP
		Radium, total alpha-emitting	3.4E+00 ± 9.0E-01		pCi/L	0	GE
		Ruthenium-106	< 9.0E+01		pCi/L	0	GP
		Sodium-22	< 1.0E+01		pCi/L	0	GP
		Strontium-89	< 2.0E+00		pCi/L	0	GP
		Strontium-90	< 2.0E+00		pCi/L	0	GP
		Technetium-99	< 3.0E+02		pCi/L	0	GP
		Thorium-228	< 1.0E+00		pCi/L	0	GP
		Thorium-230	< 1.0E+00		pCi/L	0	GP
		Thorium-232	< 1.0E+00		pCi/L	0	GP
		Thorium-234	< 3.5E+02		pCi/L	0	GP
		Tritium	5.6E+00 ± 4.0E-01		pCi/mL	0	GE
		Uranium-233/234	< 1.0E+00		pCi/L	0	GP
		Uranium-235	< 1.0E+00		pCi/L	0	GP
		Uranium-238	< 1.0E+00		pCi/L	0	GP
		Yttrium-88	< 6.0E+01		pCi/L	0	GP
		Zinc-65	< 2.0E+01		pCi/L	0	GP

● = exceeded holding time. ■ = exceeded screening level or final primary drinking water standard.

Appendix E – Data Quality/Useability Assessment

Data Quality/Useability Assessment

Quality assurance/quality control (QA/QC) procedures relating to accuracy and precision of analyses performed on groundwater samples are followed in the field and laboratory and are reviewed prior to publication of results. The Environmental Protection Department/Environmental Monitoring Section's (EPD/EMS) review of the volume of analytical data acquired each quarter and presented in various reports is an ongoing process; its review of the QA/QC data cannot be completed in time to meet the deadlines for the reports required by the Resource Conservation and Recovery Act and associated regulations. Other site and regulatory personnel can obtain further information on the data quality and useability in a variety of ways, including those described below.

Data Qualification

The contract laboratories continually assess their own accuracy and precision according to U.S. Environmental Protection Agency (EPA) guidelines. They submit sample- or batch-specific QA/QC information either at the same time as analytical results or in a quarterly summary. Properly defined and used result modifiers (also referred to as qualifiers) can be a key component in assessing data useability. Result modifiers designed by EPD/EMS and used by the primary laboratories are presented in Appendix D.

Assessment of Accuracy of the Data

Accuracy, or the nearness of the reported result to the true concentration of a constituent in a sample, can be assessed in several ways.

A laboratory's general accuracy can be judged by analysis of results obtained from known samples. The non-radionuclide contract laboratories analyze commercial reference samples every quarter at EPD/EMS' request. The results of these analyses are presented in the EPD/EMS quarterly report, *The Savannah River Site's Groundwater Monitoring Program*. The primary laboratories also seek or maintain state certification by participating periodically in performance studies; reference samples and analysis of results are provided by EPA. Results of these studies also are published in the EPD/EMS quarterly reports.

Analysis of blanks provides a tool for assessing the accuracy of both sampling and laboratory analysis. Results for all field blanks for the quarter can be found in the EPD/EMS quarterly reports. Any field or laboratory blanks that exceeded established minimums are identified in the same reports, in tables associating them with groundwater samples analyzed in the same batches.

Surrogates, organic compounds similar in chemical behavior to the compounds of interest but not normally found in environmental samples, are used to monitor the effect of the matrix on the accuracy of analyses for organic parameters. For example, for analyses of volatile organics by EPA Method 8240, three surrogate compounds are added to all samples

and blanks in each analytical batch. In analyses of semivolatile organics, three to four acid compounds and three to four base/neutral compounds are used. Other surrogates are used in pesticides analyses. Percent recoveries for surrogate analyses are calculated by laboratory personnel, reported to EPD/EMS, reviewed, and entered into the database, but they are not published. If recoveries are not within specified limits, the laboratory is expected to re-run the samples or attach result qualifiers to the data identifying the anomalous results.

Sample-specific accuracy for both organic and inorganic parameters can be assessed by examination of matrix spike/matrix spike duplicate results. A sample is analyzed unspiked to determine a baseline set of values. A second portion of sample is spiked with known concentrations of compounds appropriate to the analyses being performed, typically 5 volatile organic compounds for volatile organics analyses, 11 semivolatile compounds for semivolatiles, 6 pesticide compounds for pesticides, all metals for metals analyses, and a known quantity of cyanide for cyanide analysis. The percentage of the spike compound that is recovered (i.e., measured in excess of the value obtained for the unspiked sample) is a direct measure of analytical accuracy. EPA requires matrix spike/matrix spike duplicates to be run at least once per 20 samples of similar matrix.

Matrix spike/matrix spike duplicate results are reported to EPD/EMS but are not published. For organic compounds, according to EPA guidelines, no action is taken on the basis of matrix spike/matrix spike duplicate data alone (i.e., no result modifiers are assigned solely on the basis of matrix spike results); however, the results can indicate if a lab is having a systematic problem in the analysis of one or more analytes.

In the case of inorganic compounds, such as metals, the matrix spike sample analysis provides information about the effect of each sample matrix on the digestion and measurement methodology. Data qualifiers can be assigned on the basis of the percentage of spike recovery and are reported in the published results tables.

Assessment of Precision

Precision of the analyses, or agreement of a set of replicate results among themselves, is assessed through the use of duplicates (laboratory-initiated) and blind replicates (provided by EPD/EMS). The results of duplicate and replicate analyses are presented in the results tables of the first, second, and third quarter reports. Duplicate and replicate results are not presented in fourth quarter reports; the results tables present instead only the highest result for each analyte for each quarter of the year.

The laboratories assess precision by calculating the relative percent difference, or RPD, for each pair of laboratory-initiated duplicate results. During 1992, at least one of the contract laboratories used a data qualifier (J3) to modify metals analyses when the RPD for laboratory duplicates was greater than 20%.

Additional statistical comparisons of laboratory duplicate and blind replicate results, both intra- and interlaboratory, are presented in the EPD/EMS quarterly reports. The calculation used for these reports is the MRD, or mean relative difference, which is similar to EPA's RPD except that the MRD provides a single value for all of the analyses of a particular com-

pound, either inter- or intralaboratory, during one quarter. Because detection limits may vary among samples, the MRD requires calculation of a reference detection limit, which is the detection limit at the 90th percentile of the array of limits in the population of all replicate and duplicate analyses for a given analyte during a particular quarter. The MRD is not method-specific.

Method-Specific Accuracy and Precision

The contract laboratories' EPA-approved laboratory procedures include QA/QC requirements as an integral part of the methods. Thus, knowledge of the method used in obtaining data is an important component of determining data useability. EPA has conducted extensive research and development on the methods approved for the analysis of water and waste water; information on the accuracy and precision of the method is available from EPA publications, as is full information on required QA/QC procedures. A listing of the methods used by the primary laboratories during first quarter 1992 is given below along with the source for the method description. Many, if not all, of these sources include presentations of representative accuracy and precision results.

<u>Method</u>	<u>Used to Analyze</u>	<u>Source</u>
EPA120.1	Specific conductance	EPA EMSL 1983
EPA150.1	pH	EPA EMSL 1983
EPA160.1	Filterable residue (total dissolved solids)	EPA EMSL 1983
EPA160.2	Nonfilterable residue	EPA EMSL 1983
EPA180.1	Turbidity	EPA EMSL 1983
EPA200.7	Trace elements	EPA EMSL 1983
EPA206.2	Arsenic	EPA EMSL 1983
EPA208.2	Barium	EPA EMSL 1983
EPA239.2	Lead	EPA EMSL 1983
EPA245.1	Mercury	EPA EMSL 1983
EPA270.2	Selenium	EPA EMSL 1983
EPA279.2	Thallium	EPA EMSL 1983
EPA300.0	Inorganics, non-metals	EPA EMSL 1991
EPA310.1	Alkalinity	EPA EMSL 1983
EPA325.2	Chloride	EPA EMSL 1983
EPA335.3	Cyanide	EPA EMSL 1983
EPA340.2	Fluoride	EPA EMSL 1983
EPA353.1	Nitrogen, nitrate-nitrite	EPA EMSL 1983
EPA353.2	Nitrogen, nitrate, nitrite, or combined	EPA EMSL 1983
EPA353.3	Nitrogen, nitrate-nitrite, or nitrite only	EPA EMSL 1983
EPA354.1	Nitrogen, nitrite	EPA EMSL 1983
EPA365.1	Phosphorus, all forms (reported as total phosphates)	EPA EMSL 1983
EPA365.2	Phosphorus, all forms (reported as total phosphates)	EPA EMSL 1983
EPA375.4	Sulfate, turbidimetric	EPA EMSL 1983
EPA376.2	Sulfide	EPA EMSL 1983
APHA403	Alkalinity	APHA 1985
EPA413.1	Oil & grease	EPA EMSL 1983
APHA415A	Iodine	APHA 1985
EPA415.1	Total organic carbon	EPA EMSL 1983
EPA418.1	Petroleum hydrocarbons	EPA EMSL 1983
EPA420.1	Phenolics	EPA EMSL 1983
EPA420.2	Phenolics	EPA EMSL 1983
APHA705	Total alpha-emitting radium	APHA 1985

<u>Method</u>	<u>Used to Analyze</u>	<u>Source</u>
ASTMD3869C	Iodide	ASTM 1992
APHA5320	Dissolved organic halogen	APHA 1989
EPA6010	Metals	EPA 1986
EPA7041	Antimony	EPA 1986
EPA7060	Arsenic	EPA 1986
EPA7421	Lead	EPA 1986
EPA7470	Mercury	EPA 1986
EPA7740	Selenium	EPA 1986
EPA7841	Thallium	EPA 1986
EPA8010	Halogenated volatile organics	EPA 1986
EPA8020	Aromatic volatile organics	EPA 1986
EPA8080	Organochlorine pesticides and PCBs	EPA 1986
EPA8140	Organophosphorus pesticides	EPA 1986
EPA8150	Chlorinated herbicides	EPA 1986
EPA8240	GCMS VOA	EPA 1986
EPA8270	GCMS semivolatiles	EPA 1986
EPA8280	Dioxins and furans	EPA 1986
EPA9012	Total cyanide	EPA 1986
EPA9020	Total organic halides	EPA 1986
EPA9030	Sulfides	EPA 1986

An example of the available method-specific QA/QC information is that for the analysis of metals by EPA Method 6010/200.7 (EPA, 1986/EPA EMSL, 1983). The primary laboratories, General Engineering Laboratories (GE) and Roy F. Weston, Inc. (Weston), use this inductively coupled plasma (ICP) atomic emission spectrometric method.

The following precision and accuracy data are based on the experience of seven laboratories that applied the ICP technique to acid-distilled water matrices that had been dosed with various metal concentrates. (Note: not all seven laboratories analyzed all 14 elements.) The references give results for samples having three concentration ranges; the results here are for samples having the lowest values, similar to actual groundwater results for SRS.

ICP Precision and Accuracy Data

<u>Element</u>	<u>True value (µg/L)</u>	<u>Mean reported value (µg/L)</u>	<u>Mean percent RSD^a</u>
Aluminum	60	62	33
Arsenic	22	19	23
Beryllium	20	20	9.8
Cadmium	2.5	2.9	16
Chromium	10	10	18
Cobalt	20	20	4.1
Copper	11	11	40
Iron	20	19	15
Lead	24	30	32
Manganese	15	15	6.7
Nickel	30	28	11
Selenium	6	8.5	42

Element	True value ($\mu\text{g/L}$)	Mean reported value ($\mu\text{g/L}$)	Mean percent RSD ^a
Vanadium	70	69	2.9
Zinc	16	19	45

Note: In EPA (1986), the column heading is Mean Standard Deviation (%).

^a Relative standard deviation.

As another example, EPA Method 601/8010 (EPA, 1991/EPA, 1986) is used by both GE and Weston for analyses of halogenated volatile organics. In the presentation of the method in both references, the following table gives method-specific accuracy and precision as functions of concentration. Contract laboratories are expected to achieve or at least approach these limits.

Accuracy and Precision as Functions of Concentration for EPA Method 601/8010

Parameter	Accuracy as recovery, X' ^a ($\mu\text{g/L}$)	Single analyst precision ($\mu\text{g/L}$) ^b	Overall precision ($\mu\text{g/L}$) ^c
Bromodichloromethane	$1.12C - 1.02^d$	$0.11\bar{X} + 0.04^e$	$0.20\bar{X} + 1.00$
Bromoform	$0.96C - 2.05$	$0.12\bar{X} + 0.58$	$0.21\bar{X} + 2.41$
Bromomethane	$0.76C - 1.27$	$0.28\bar{X} + 0.27$	$0.36\bar{X} + 0.94$
Carbon tetrachloride	$0.98C - 1.04$	$0.15\bar{X} + 0.38$	$0.20\bar{X} + 0.39$
Chlorobenzene	$1.00C - 1.23$	$0.15\bar{X} - 0.02$	$0.18\bar{X} + 1.21$
Chloroethane	$0.99C - 1.53$	$0.14\bar{X} - 0.13$	$0.17\bar{X} + 0.63$
2-Chloroethyl vinyl ether ^f	$1.00C$	$0.20\bar{X}$	$0.35\bar{X}$
Chloroform	$0.93C - 0.39$	$0.13\bar{X} + 0.15$	$0.19\bar{X} - 0.02$
Chloromethane	$0.77C + 0.18$	$0.28\bar{X} - 0.31$	$0.52\bar{X} + 1.31$
Dibromochloromethane	$0.94C + 2.72$	$0.11\bar{X} + 1.10$	$0.24\bar{X} + 1.68$
1,2-Dichlorobenzene	$0.93C + 1.70$	$0.20\bar{X} + 0.97$	$0.13\bar{X} + 6.13$
1,3-Dichlorobenzene	$0.95C + 0.43$	$0.14\bar{X} + 2.33$	$0.26\bar{X} + 2.34$
1,4-Dichlorobenzene	$0.93C - 0.09$	$0.15\bar{X} + 0.29$	$0.20\bar{X} + 0.41$
1,1-Dichloroethane	$0.95C - 1.08$	$0.09\bar{X} + 0.17$	$0.14\bar{X} + 0.94$
1,2-Dichloroethane	$1.04C - 1.06$	$0.11\bar{X} + 0.70$	$0.15\bar{X} + 0.94$
1,1-Dichloroethene	$0.98C - 0.87$	$0.21\bar{X} - 0.23$	$0.29\bar{X} - 0.40$
trans-1,2-Dichloroethene	$0.97C - 0.16$	$0.11\bar{X} + 1.46$	$0.17\bar{X} + 1.46$
1,2-Dichloropropane ^f	$1.00C$	$0.13\bar{X}$	$0.23\bar{X}$
cis-1,3-Dichloropropene ^f	$1.00C$	$0.18\bar{X}$	$0.32\bar{X}$
trans-1,3-Dichloropropene ^f	$1.00C$	$0.18\bar{X}$	$0.32\bar{X}$
Methylene chloride	$0.91C - 0.93$	$0.11\bar{X} + 0.33$	$0.21\bar{X} + 1.43$
1,1,2,2-Tetrachlorethane	$0.95C + 0.19$	$0.14\bar{X} + 2.41$	$0.23\bar{X} + 2.79$
Tetrachloroethylene	$0.94C + 0.06$	$0.14\bar{X} + 0.38$	$0.18\bar{X} + 2.21$
1,1,1-Trichloroethane	$0.90C - 0.16$	$0.15\bar{X} + 0.04$	$0.20\bar{X} + 0.37$
1,1,2-Trichloroethane	$0.86C + 0.30$	$0.13\bar{X} - 0.14$	$0.19\bar{X} + 0.67$
Trichloroethylene	$0.87C + 0.48$	$0.13\bar{X} - 0.03$	$0.23\bar{X} + 0.30$
Trichlorofluoromethane	$0.89C - 0.07$	$0.15\bar{X} + 0.67$	$0.26\bar{X} + 0.91$
Vinyl chloride	$0.97C - 0.36$	$0.13\bar{X} + 0.65$	$0.27\bar{X} + 0.40$

^a X' = expected recovery for one or more measurements of a sample containing a concentration of C , in $\mu\text{g/L}$.

^b Expected single analyst standard deviation of measurements.

- ^c Expected interlaboratory standard deviation of measurements.
- ^d C = true value for the concentration, in $\mu\text{g/L}$.
- ^e $\bar{X}$ = average recovery found for measurements of samples containing a concentration of C , in $\mu\text{g/L}$.
- ^f Estimates based on performance in a single laboratory.

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Appendix F – Time Series Plots

pH Well Cluster BGO 6

WSRC-TR-93-390

Note: W = Water Table (IIB2); M = McBean (IIB1); B = Barnwell (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

pH Well Cluster BGO 8

WSRC-TR-93-390

Note: W = Water Table (IIB2); M = McBean (IIB1); B = Barnwell (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

pH Well Cluster BGO 14

Note: W = Water Table (IIB2); M = McBean (IIB1); B = Barnwell (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); Lower Congaree (IIA)

pH Well Cluster BGO 16

WSRC-TR-93-390

Note: W = Water Table (IIB2); M = McBean (IIB1); B = Barnwell (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

pH Well Cluster BGO 26

Note: W = Water Table (IIB2); M = McBean (IIB1); B = Barnwell (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); Lower Congaree (IIA)

pH
Well BGO 28D

WSRC-TR-93-390

Note: W = Water Table (IIB2); M = McPean (IIB1); B = Barnwell (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

pH

Well Cluster BGO 30

Note: W = Water Table (IIB2); M = McBean (IIB1); B = Barnwell (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 6

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGO 7D

PDWS 5 µg/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

WSRC-TR-93-390

Trichloroethylene Concentrations Well Cluster BGO 8

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 10

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGO 11D

PDWS 5 µg/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 12

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 13

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 14

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGO 15D

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 16

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 18

PDWS 5 µg/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 22

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGO 23D

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

5 of 6

WSRC-TR-93-390

Trichloroethylene Concentrations Well Cluster BGO 26

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 27

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGO 28D

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 29

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 30

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 31

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGO 32D

PDWS 5 µg/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 33

PDWS 5 µg/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 35

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 37

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGO 40D

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGO 41A

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGO 42C

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 43

PDWS 5 µg/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 44

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 46

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 47

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 48

PDWS 5 µg/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGO 50

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGX 2

PDWS 5 µg/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGX 3D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGX 4

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGX 5D

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well BGX 7D

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGX 8

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well Cluster BGX 12

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Trichloroethylene Concentrations Well HMD 3D

PDWS 5 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

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Tritium Activities Well BGO 1D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 2D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 3D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 4D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 5

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 6

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 7D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 8

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 9

Tritium Activities Well Cluster BGO 10

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 11D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 12

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 13

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 14

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 15D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 16

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well BGO 17DR

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 18

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well BGO 19D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 20D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 21D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 22

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 23D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 24D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 26

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 27

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well BGO 28D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 29

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 30

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 31

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 32D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 33

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well BGO 34D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 35

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 36D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 37

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 38D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 39D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 40D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGO 42C

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 43

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 44

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 45

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 46

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 47

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 48

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 49

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGO 50

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster BGX 1

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGX 2

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGX 3D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGX 4

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGX 5D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGX 6D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGX 7D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGX 8

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well BGX 9D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGX 10D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well BGX 11D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster BGX 12

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HMD 1D

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HMD 2D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well HMD 3D

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HMD 4D

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well Cluster HSB 85

PDWS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Appendix G – Hydrographs

Hydrograph Well BGO 1D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

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Hydrograph Well BGO 2D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 3D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 4D

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 5

WSRC-TR-93-390

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster BGO 6

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 7D

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 8

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 9

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 10

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 11D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 12

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 13

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 14

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 15D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

WSRC-TR-93-390

Hydrograph Well Cluster BGO 16

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 17

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 18

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 19D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 20D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 21D

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 22

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 23D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 24D

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 25A

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 26

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 27

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well BGO 28D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 29

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 30

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 31

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 32D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 33

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 34D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 35

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 36D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 37

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 38D

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 39D

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 40D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 41A

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGO 42C

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 43

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

WSRC-TR-93-390

Hydrograph Well Cluster BGO 44

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 45

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 46

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 47

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 48

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 49

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGO 50

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGX 1

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGX 2

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGX 3D

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGX 4

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGX 5D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGX 6D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGX 7D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGX 8

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGX 9D

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGX 10D

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well BGX 11D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster BGX 12

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well HMD 1D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well HMD 2D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

WSRC-TR-93-390

Hydrograph Well HMD 3D

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

WSRC-TR-93-390

Hydrograph Well HMD 4D

WSRC-TR-93-390

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Hydrograph Well Cluster HSB 85

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

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