1 of 6

FIRST AND SECOND QUARTERS 1993

H-AREA SEEPAGE BASINS GROUNDWATER MONITORING REPORT (U)

Volume I

PUBLICATION DATE: SEPTEMBER 1993

Authorized Derivative Classifier:

Michael Bullington

WESTINGHOUSE SAVANNAH RIVER COMPANY
SAVANNAH RIVER SITE
AIKEN, SC 29808

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

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KEY WORDS

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PUBLICATION DATE: SEPTEMBER 1993

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SAVANNAH RIVER SITE
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Abstract

During the first half of 1993, the groundwater at the H-Area Seepage Basins (HASB) was monitored in compliance with the September 30, 1992, modification of South Carolina Hazardous Waste Permit SC1-890-008-989. Samples were collected from 130 wells that monitor the three separate hydrostratigraphic units that make up the uppermost aquifer beneath the HASB. A detailed description of the uppermost aquifer is included in the Resource Conservation and Recovery Act Part B Post-Closure Care Permit Application for the H-Area Hazardous Waste Management Facility submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) in December 1990.

Beginning in the first quarter of 1993, the HASB's Groundwater Protection Standard (GWPS), established in Appendix IIID-A of the cited permit, is the standard for comparison. Historically, as well as currently, gross alpha, nitrate, nonvolatile beta, and tritium have been among the primary constituents to exceed standards. Other radionuclides and hazardous constituents also exceeded the GWPS in the groundwater at the HASB, notably aluminum, iodine-129, mercury, nickel-63, strontium-89, strontium-90, technetium 99, and zinc during the first half of 1993. Elevated constituents are found primarily in Aquifer Zone IIB₂ (Water Table) and in the upper portion of Aquifer Zone IIB₁ (Barnwell/McBean). However, constituents exceeding standards also occur in several wells screened in the lower portion of Aquifer Zone IIB₁ (Barnwell/McBean) and Aquifer Unit IIA (Congaree).

Isoconcentration/isoactivity maps included in this report indicate both the concentration/activity and extent of the primary contaminants in each of the three hydrostratigraphic units during the first half of 1993. Water-level maps indicate that the groundwater flow rates and directions at the HASB have remained relatively constant since the basins ceased to be active in 1988.

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Executive Summary

Currently, 130 wells of the HSB series monitor the groundwater in the uppermost aquifer beneath the H-Area Seepage Basins (HASB) at the Savannah River Site (SRS) as required by the facility's South Carolina Hazardous Waste Permit. The wells are sampled and analyzed quarterly for certain heavy metals, indicator parameters, radionuclides, volatile organic compounds, and other constituents. This groundwater monitoring report describes the analytical results that exceeded Groundwater Protection Standards (GWPS) and SRS flagging criteria during first and second quarters 1993. Beginning first quarter 1993, groundwater monitoring reports are submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) semiannually as required by the HASB Hazardous Waste Permit effective November 2, 1992 (SCDHEC, 1992).

During first quarter 1993, the following parameters exceeded the GWPS in wells at the HASB: aluminum, arsenic, cobalt-60, copper, gross alpha, iodine-129, lead, mercury, nickel, nickel-63, nitrate, nonvolatile beta, pH, radium-226, radium-228, strontium-89, strontium-90, technetium-99, tin, trichloroethylene, tritium, uranium-233/234, uranium-238, vanadium, and zinc.

Aluminum, gross alpha, iodine-129, mercury, nickel-63, nitrate, nonvolatile beta, strontium-89, strontium-90, technetium-99, tritium, and zinc exceeded the GWPS most frequently. pH exceeded the GWPS in over 70% of the wells for both first and second quarters 1993, most frequently exceeding the acidic standard. Trichloroethylene exceeded the standard in one well. Upgradient Congaree wells HSB140A and 146A did not contain any radioactive or other constituents that exceeded the GWPS. Elevated levels of aluminum, strontium-89, strontium-90, tin, tritium, or zinc were found in one or more of the remaining upgradient wells.

Elevated constituents were found primarily in Aquifer Zone IIB₂ (Water Table) and in Aquifer Zone IIB₁ (Barnwell/McBean). However, aluminum, nitrate, nonvolatile beta, strontium-90, technetium-99, tin, tritium, and zinc in levels exceeding the GWPS occurred in one or more wells in Aquifer Unit IIA (Congaree).

According to universal transverse Mercator (UTM) grid coordinates, groundwater flow in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) is generally to the south toward Fourmile Branch. Flow in Aquifer Unit IIA (Congaree) is northwest toward Upper Three Runs Creek. Flow directions and flow rates have remained relatively consistent in recent years.

Introduction

Description of Facilities

The four H-Area Seepage Basins (HASB) are located in the Separations Area in the central part of the Savannah River Site (SRS) (Figures 1 and 2, Appendix C). The following description outlines important events in the history of the HASB:

- In 1955, three seepage basins (H-1, H-2, and H-3) were constructed in H Area to contain waste water from the H-Area Separations Facility. In 1962, another basin (H-4) was constructed to replace Basin H-3 due to the slow seepage of waste water from Basin H-3. These unlined, hydraulically connected basins received waste water containing elevated amounts of nitrate, tritium, and other constituents. Primary sources for this waste water included the nitric acid recovery overheads, the general purpose evaporator overheads, overheads from the two waste tank farm evaporators, cooling water from the tritium facilities, and retention basin transfers (Heffner and Exploration Resources, 1991).
- The Resource Conservation and Recovery Act (RCRA) Part A post-closure care permit application was submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) on September 29, 1980, and the Part B permit application was submitted on February 6, 1985.
- In Administrative Consent Order 85-70-SW (November 7, 1985), DOE agreed to comply with the South Carolina Hazardous Waste Management Regulations (SCHWMR) (SCDHEC, 1990) and to continue quarterly groundwater monitoring at the HASB.
- In Settlement Agreement 86-52-SW (June 20, 1986), SCDHEC required DOE to submit groundwater monitoring reports to address groundwater contamination at the HASB.
- On May 1, 1987, Settlement Agreement 87-27-SW became effective. In this agreement, SCDHEC required DOE to submit a revised Part B post-closure care permit application by April 15, 1988, to address a Notice of Deficiency issued by SCDHEC November 21, 1985.
- DOE submitted a revised Part B post-closure care permit application on April 15, 1988, in compliance with Settlement Agreement 87-27-SW.
- Under the Consent Decree of June 1, 1988 (Natural Resources Defense Council et al., Civil Action 1:85-2583-6, U.S. District Court, District of South Carolina, Aiken Division), the HASB was placed on Interim Status.
- Discharge of waste water to the HASB was discontinued on November 7, 1988.

- On December 3, 1990, DOE submitted a revised Part B post-closure care permit application to SCDHEC that includes an implementable plan for groundwater remediation (WSRC, 1990).
- Closure caps for the HASB were completed on January 4, 1991. These low permeability caps prevent infiltration of rainwater through the basin sediments and minimize migration of contaminants into the groundwater. The basins were certified closed April 26, 1991, in accordance with SCHWMR (SCDHEC, 1990).
- A revised Part B post-closure care permit application was submitted to SCDHEC on January 22, 1991.
- In March 1992, a revised Part B post-closure care permit application (WSRC, 1992a) was submitted to SCDHEC.
- SCDHEC issued a modification with conditions to hazardous waste permit SC1-890-008-989 on September 30, 1992 (SCDHEC, 1992). The permit, effective November 2, 1992, requires that a detailed corrective action plan for groundwater remediation at the HASB be submitted.

The groundwater at the HASB contains elevated levels of tritium and nitrate and other low-level radionuclides and chemicals from 30 years of operation. The Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) monitors the groundwater quarterly as part of the SRS Groundwater Monitoring Program. The Environmental Restoration Department provides semiannual reports to SCDHEC as required by the HASB Hazardous Waste Permit issued November 2, 1992 (SCDHEC, 1992).

Hydrostratigraphic Units

Historically, groundwater monitoring reports for the HASB have used the nomenclature *Water Table*, *Barnwell*, *McBean*, and *Congaree* to identify hydrostratigraphic 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 rather than lithostratigraphic designations. Figure 4 (Appendix C) shows a correlation of these designations. For clarity, this report uses the newer nomenclature and also includes the older names used in earlier reports. The HASB RCRA Part B Post-Closure Care Permit Application, submitted December 1990 (WSRC, 1990), includes an in-depth explanation of the new nomenclature.

The HASB well network monitors three distinct hydrostratigraphic units in the uppermost aquifer beneath the facility: Aquifer Zone IIB₂ (Water Table), which is supported by Confining Zone IIB₁-IIB₂ (Tan Clay); the poorly confined Aquifer Zone IIB₁ (Barnwell/McBean); and the semi-confined Aquifer Unit IIA (Congaree), which is separated from the overlying Aquifer Zone IIB₁ (Barnwell/McBean) by Confining Unit IIA-IIB (Green Clay). The base of the uppermost aquifer is defined as the uppermost bed of Confining System I-II (Ellenton

Formation), which lies approximately 300 ft below the surface of the area. The HASB RCRA Part B Post-Closure Care Permit Application includes a detailed description of the geologic and hydrogeologic systems at the HASB.

Discussion

Groundwater Monitoring Data

The EPD/EMS sampling procedure (WSRC, 1992b) 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 the groundwater quality.

Variable-speed pumps have been installed in wells that have a history of elevated metals. Samples from wells with variable-speed pumps can be collected at a slower rate to minimize turbidity, which has been associated with elevated metal levels. Decreased aluminum and iron concentrations as well as lower turbidity values have been observed for samples from wells with variable-speed pumps.

During first and second quarters 1993, samples from wells at the HASB were analyzed for indicator parameters, heavy metals, radionuclides, and other constituents. Monitoring results that exceeded the Groundwater Protection Standard (GWPS) (Appendix A) or the SRS flagging criteria (Appendix B) are discussed in this report. The GWPS concentration/activity limits are based on standards listed in section 264.94 of SCHWMR (SCDHEC, 1990); practical quantitation limits identified in Appendix IX of the *Code of Federal Regulations* (EPA, 1992a) or established by the contract laboratories; primary and secondary drinking water standards (EPA, 1992b; 1992c); and the SRS flagging criteria (Appendix B). The SRS flagging criteria are based on the Safe Drinking Water Act final Primary Drinking Water Standards (PDWS) established by the U.S. Environmental Protection Agency (EPA), the proposed PDWS, Secondary Drinking Water Standards, and method detection limits. For simplicity, results that either equaled or exceeded standards are described as *elevated* or as *exceeding* or *above* standards.

The SCDHEC permit requires that all of the radionuclides except gross alpha, nonvolatile beta, total radium, and tritium be compared to activities found in SRS background wells. The studies to obtain background activities will not be completed until November 1993. Thus, SRS Flag 2 criteria are used in this report as interim standards for radionuclides requiring background activity standards.

Currently, EPD/EMS does not provide analyses for several of the required radionuclides. Americium-243, nickel-63, plutonium-241, and plutonium-242 activities are not determined because their determinations require difficult methodologies which yield questionable results. SRS has requested that nickel-63 be removed from the GWPS due to demonstrated analytical

uncertainty. In this report, the activities of these four radionuclides were calculated as ratios of measured activities of chemically similar radionuclides. The activity ratios are as follows: americium-243:curium-244 $\approx 3\text{E-}03$; nickel-63:cobalt-60 ≈ 1 ; plutonium-241:plutonium-239 ≈ 4 ; and plutonium-242:plutonium-239 $\approx 2\text{E-}05$ (Environmental Restoration Department memorandum WSRC-RP-93-0723 from H. P. Holcomb to C. M. Lewis, May 14, 1993). During first and second quarters 1993, curium-244 and plutonium-239 activities were not determined by the analytical laboratory. Therefore, curium-243/244 and plutonium-239/240 activities were used to calculate the activities of americium-243, plutonium-241, and plutonium-242. Detection limit values for curium-243/244, cobalt-60, and plutonium-239/240 were treated as real numbers in calculations. Results calculated from detection limit values are preceded by less than (<) signs in the data tables.

Also, total radium (radium-226 and radium-228) and curium-246, required by the SCDHEC permit, are not determined by the analytical laboratory. Total radium activities were not calculated for this report because of problems inherent in summing the numerous detection limit values obtained for radium-226 and radium-228. Individual results for radium-226 and radium-228 are reported. Curium-245/246 activities are reported as an upper limit estimate for curium-246 activities.

Integrity of the Monitoring Well Network

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

- 58 Aquifer Zone IIB₂ (Water Table) wells (Figure 5, Appendix C): HSB 65, 65C, 66, 67, 68, 69, 70, 71, 83D, 84D, 85C, 86D, 100D, 101D, 102D, 103D, 104D, 105D, 106D, 107D, 108D, 109D, 110D, 111D, 111E, 112D, 112E, 113D, 114D, 115D, 116D, 117D, 125D, 126D, 127D, 129D, 130D, 131D, 132D, 133D, 134D, 135D, 136D, 137D, 138D, 139D, 140D, 141D, 142D, 143D, 145D, 146D, 147D, 148D, 149D, 150D, 151D, 152D
- 46 wells screened in the upper portion of Aquifer Zone IIB₁ (Barnwell/McBean) (Figure 6, Appendix C): HSB 68C, 70C, 71C, 83C, 84C, 86C, 100C, 101C, 102C, 103C, 104C, 105C, 106C, 107C, 108C, 109C, 110C, 111C, 112C, 113C, 114C, 115C, 116C, 117C, 125C, 126C, 127C, 129C, 130C, 131C, 132C, 133C, 134C, 135C, 136C, 137C, 139C, 140C, 141C, 142C, 143C, 145C, 146C, 148C, 151C, 152C
- 6 wells screened in the lower portion of Aquifer Zone IIB₁ (Barnwell/McBean) (Figure 6, Appendix C): HSB 65B, 68B, 83B, 84B, 85B, 86B
- 20 Aquifer Unit IIA (Congaree) wells (Figure 7, Appendix C): HSB 85A, 118A, 119A, 120A, 121A, 122A, 123A, 124AR, 139A, 140A, 141A, 144A, and 146A in the upper portion; HSB 69A, 83A, and 117A in the middle portion; HSB 65A, 68A, 84A, and 86A in the lower portion

The designated background wells are HSB 66, 83A, and 85B.

The designated point-of-compliance wells are as follows:

- Aquifer Zone IIB₂ (Water Table): HSB100D, 101D, 102D, 103D, 104D, 105D, 106D, 107D, 108D, 109D, 110D, 111D, 111E, 112D, 112E, 113D, 114D, 115D, 116D
- Aquifer Zone IIB₁ (Barnwell/McBean): HSB100C, 101C, 102C, 103C, 104C, 105C, 106C, 107C, 108C, 109C, 110C, 111C, 112C, 113C, 114C, 115C, 116C
- Aquifer Unit IIA (Congaree): HSB119A, 120A, 121A, 122A, 123A, 124AR

Variable-speed pumps have been installed in wells HSB 68, 69, 84A, 84D, 86C, 86D, 101D, 102D, 103D, 104D, 105D, 106D, 107D, 108D, 110D, 111D, 111E, 112D, 112E, 113D, 114D, 116C, 116D, 125D, and 136D at the HASB.

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 HASB is found in the EPD/EMS well inventory (EPD/EMS, 1993). The most recent well construction activity at this location occurred during 1991.

Table 3 (Appendix D) lists the number of well volumes purged from each of the HSB wells during first and second quarters 1993. Incomplete or unsuccessful purging events occurred as follows:

- Wells that went dry during purging and were revisited within 24 hours: HSB 68B, 68C, 70C, 71C, 84B, 84C, 85B, 101D, 102D, 112E, 115D, 119A, 126D, 129C, 132C, 132D, 136C, 137C, 138D, 139C, 141C, 141D, 142D, 146D, 147D, 148C, 148D, and 152D during first quarter 1993; HSB 68B, 68C, 70C, 71C, 84B, 84C, 85B, 101D, 112E, 115D, 119A, 123A, 126D, 129C, 132C, 132D, 136C, 137C, 138D, 139C, 141D, 142D, 146D, 147D, 148C, 148D, 150D, and 152D during second quarter 1993.
- Well HSB123A could not be sampled during first quarter because of mechanical problems.
- 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: HSB 68, 102D, 108D, 116D, 141C during second quarter.

Analytical Results Exceeding Standards

Results for analytes that exceeded the GWPS (see Appendix A) during first and second quarters 1993 are summarized in Table 1 (Appendix D) and below. During both quarters, the maximum levels for the constituents that occurred most frequently were detected in Aquifer Zone IIB₂ (Water Table). These values are indicated along with the wells in which they were detected. The results for analytes exceeding the GWPS during first quarter 1993 are listed below.

Aquifer Zone IIB₂ (Water Table)

- Laboratory measurements of pH were outside the range of the GWPS in all 58 wells.
- Aluminum was elevated in 48 wells, with a maximum concentration of 13,000 $\mu\text{g/L}$ in well HSB102D
- Tritium was elevated in 45 wells, with a maximum activity of $1.2\text{E}+04$ pCi/mL in well HSB112D
- Strontium-90 was elevated in 30 wells, with a maximum activity of $2.5\text{E}+03$ pCi/L in well HSB116D
- Technetium-99 was elevated in 29 wells, with a maximum activity of $2.5\text{E}+04$ pCi/L in well HSB112D
- Nonvolatile beta was elevated in 26 wells, with a maximum activity of $9.2\text{E}+03$ pCi/L in well HSB116D
- Nitrate was elevated in 25 wells, with a maximum concentration of 86,000 $\mu\text{g/L}$ in well HSB 69
- Iodine-129 was elevated in 19 wells, with a maximum activity of $1.1\text{E}+02$ pCi/L in well HSB114D
- Strontium-89 was elevated in 16 wells
- Gross alpha was elevated in 15 wells
- Mercury and nickel-63 were elevated in 10 wells
- Cobalt-60 was elevated in 5 wells
- Copper was elevated in 4 wells
- Radium-226 was elevated in 2 wells
- A number of constituents were detected above the GWPS in one well each: arsenic, lead, radium-228, uranium-233/234, uranium-238, and vanadium

Upper portion of Aquifer Zone IIB₁ (Barnwell/McBean)

Forty-five wells exhibited parameters that exceeded the GWPS:

- Laboratory measurements of pH were outside of range in 36 wells
- Tritium was elevated in 34 wells, with a maximum activity of $1.6\text{E}+04$ pCi/mL in well HSB 86C

- Aluminum was elevated in 25 wells
- Technetium-99 was elevated in 20 wells
- Nitrate was elevated in 19 wells, with a maximum concentration of 64,000 $\mu\text{g/L}$ in well HSB 137C
- Zinc was elevated in 11 wells
- Nonvolatile beta was elevated in 10 wells, with a maximum activity of $7.5\text{E} + 02$ pCi/L in well HSB 86C
- Iodine-129 was elevated in 8 wells
- Tin was elevated in 6 wells
- Gross alpha, with a maximum activity of $3.0\text{E} + 01$ pCi/L, and strontium-90 were elevated in 3 wells
- Copper, nickel, nickel-63, and strontium-89 were elevated in 1 well each

Lower portion of Aquifer Zone IIB, (Barnwell/McBean)

Five wells exhibited parameters that exceeded the GWPS:

- Aluminum was elevated in 4 wells
- Tritium, with a maximum activity of $6.6\text{E} + 01$ pCi/mL, and pH exceeded the standards in 2 wells each
- Strontium-89, tin, and zinc were elevated in 1 well each

Aquifer Unit IIA (Congaree)

Eight wells exhibited parameters that exceeded the GWPS:

- pH exceeded the standard in 5 wells
- Tritium, with a maximum activity of $7.1\text{E} + 03$ pCi/mL, and aluminum were elevated in 4 wells each
- Technetium-99 was elevated in 3 wells
- Nonvolatile beta, nitrate, strontium-90, tin, and zinc were elevated in 1 well each

The results for analytes exceeding the GWPS during second quarter 1993 are listed below.

Aquifer Zone IIB₂ (Water Table)

Fifty-three wells exhibited parameters that exceeded the GWPS:

- pH exceeded the standards in 52 wells
- Tritium was elevated in 44 wells, with a maximum activity of $1.0\text{E}+04$ pCi/mL in wells HSB112D and HSB115D
- Aluminum was elevated in 41 wells, with a maximum concentration of $8,200\text{ }\mu\text{g/L}$ in well HSB113D
- Technetium-99 was elevated in 27 wells (HSB115D at $2.5\text{E}+04$ pCi/L)
- Strontium-90 was elevated in 25 wells (HSB 69 at $1.8\text{E}+03$ pCi/L)
- Nonvolatile beta was elevated in 22 wells (HSB 69 at $4.9\text{E}+03$ pCi/L)
- Nitrate was elevated in 19 wells (HSB126D at $52,000\text{ }\mu\text{g/L}$)
- Zinc was elevated in 18 wells
- Iodine-129 and strontium-89 were elevated in 14 wells each
- Gross alpha was elevated in 13 wells
- Mercury was elevated in 7 wells
- Cobalt-60 and nickel-63 were elevated in 5 wells each
- Copper and radium-226 were elevated in 2 wells each
- Arsenic, nickel, and vanadium were elevated in 1 well each

Upper portion of Aquifer Zone IIB₁ (Barnwell/McBean)

Forty-five wells exhibited parameters that exceeded the GWPS:

- pH exceeded the standards in 38 wells
- Tritium was elevated in 33 wells, with a maximum activity of $1.6\text{E}+04$ in well HSB 86C
- Aluminum was elevated in 26 wells
- Technetium-99 was elevated in 21 wells

- Nitrate was elevated in 19 wells, with a maximum concentration of 58,000 $\mu\text{g/L}$ in well HSB137C
- Zinc was elevated in 11 wells
- Iodine-129 was elevated in 9 wells
- Nonvolatile beta was elevated in 8 wells, with a maximum activity of $1.2\text{E}+03$ pCi/L in well HSB 86C
- Gross alpha, with a maximum activity of $4.8\text{E}+01$ pCi/L in well HSB 86C, strontium-90, and tin were elevated in 5 wells each
- Strontium-89 was elevated in 2 wells
- Copper nickel-63, and trichloroethylene were elevated in 1 well each

Lower portion of Aquifer Zone IIB, (Barnwell/McBean)

Four wells exhibited parameters that exceeded the GWPS:

- Aluminum was elevated in 4 wells
- Tritium, with a maximum activity of $2.4\text{E}+02$ pCi/mL in well HSB 68B, and pH were elevated in 2 wells each
- Zinc was elevated in 1 well

Aquifer Unit IIA (Congaree)

Six wells exhibited parameters that exceeded the GWPS:

- Tritium, with a maximum activity of $8.3\text{E}+03$ pCi/mL in well HSB118A, and pH were elevated in 3 wells
- Aluminum, technetium-99, and tin were elevated in 2 wells each
- Nonvolatile beta, nitrate, strontium-90, and zinc were elevated in 1 well each

Results for analytes that exceeded SRS flagging criteria (see Appendix B) during first and second quarters 1993 are summarized in Table 2 (Appendix D).

Table 3 (Appendix D) shows field water quality results, water elevations, and laboratory analytical data for all of the constituents required by section IIID.H.10.b.i of the permit. Table 3 also identifies the results that received modifiers (which help identify laboratory accuracy and precision) or that exceeded the EPA-approved holding time, the GWPS, or the SRS flagging criteria during the first half of 1993. Appendix E provides an assessment of the quality and useability of data.

Isoconcentration Maps and Time Series Plots

The areal distributions of gross alpha, mercury, nitrate, nonvolatile beta, radium-226, radium-228, and tritium in the different hydrostratigraphic units beneath the HASB during first and second quarters 1993 are presented in Figures 8 through 28 (Appendix C). Large-scale (1 in. = 500 ft) isoconcentration maps for these constituents during second quarter 1993, required by section IIID.H.10.b.iv of the permit, are located in Volume II of this report.

Appendix F contains time series plots for gross alpha, mercury, nitrate, nonvolatile beta, radium-226, radium-228, and tritium for selected HSB wells, as required in section IIID.H.10.b.iii of the permit. These wells were selected to delineate the extent of the plume, to monitor the migration of the plume, and to follow trends of constituents present in high levels.

Water Levels

Hydrographs showing the water elevations for the HSB wells, required by section IIID.H.10.b.ii of the permit, are provided in Appendix G. Rainfall recharge data for the period of this report, required by section IIID.H.10.b.viii of the permit, are presented below. Rainfall in F-Area (200-F) is compared with SRS average rainfall for the same period and with the SRS average normal rainfall for the same period in past years.

Rainfall Recharge During First and Second Quarters of 1993 (in.)

	Rainfall at 200-F	SRS Average Rainfall	Deviation from Normal
January	8.90	8.55	+ 4.41
February	5.09	4.05	-0.33
March	8.48	7.83	+ 2.96
April	1.37	1.75	-1.67
May	1.56	1.96	-2.04
June	6.03	4.87	+ 0.45
Six-month total	31.43	29.01	+ 3.60

Average water elevations in the three hydrostratigraphic units beneath the HASB for the past four quarters are shown in the following table.

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

Unit	3Q92	4Q92	1Q93	2Q93
Aquifer Zone IIB ₂ (Water Table)	222.37	222.17	225.09	223.00
Aquifer Zone IIB ₁ (Barnwell/McBean, upper portion)	216.92	216.87	219.19	217.70
Aquifer Zone IIB ₁ (Barnwell/McBean, lower portion)	221.80	221.90	224.04	223.01
Aquifer Unit IIA	171.15	171.33	172.86	171.94

During first quarter 1993, the average water elevation in Aquifer Zone IIB₂ (Water Table) rose 2.92 ft compared to fourth quarter 1992; the average water level in the upper portion of Aquifer Zone IIB₁ (Barnwell/McBean) rose 2.32 ft; the average water level in the lower portion of Aquifer Zone IIB₁ (Barnwell/McBean) rose 2.14 ft; and the average water level in Aquifer Unit IIA (Congaree) rose 1.53 ft.

During second quarter 1993, the average water elevation in Aquifer Zone IIB₂ (Water Table) declined 2.09 ft compared to first quarter 1993; the average water level in the upper portion of Aquifer Zone IIB₁ (Barnwell/McBean) declined 1.49 ft; the average water level in the lower portion of Aquifer Zone IIB₁ (Barnwell/McBean) fell 1.03 ft; and the average water level in Aquifer Unit IIA (Congaree) fell 0.92 ft.

A consistent downward vertical head relationship exists between the hydrostratigraphic zones and units monitored at the HASB. Flow potential is downward from Aquifer Zone IIB₂ (Water Table) to Aquifer Zone IIB₁ (Barnwell/McBean) (although at several well clusters, the head difference is very small) and downward from Aquifer Zone IIB₁ (Barnwell/McBean) to Aquifer Unit IIA (Congaree). These hydrostratigraphic zones have exhibited consistent head relationships since 1988. There are no wells screened in the lower portion of Aquifer Unit IIA (Congaree) to evaluate the head relationship in this unit.

Groundwater Flow Rates and Directions

Groundwater flow directions beneath the HASB have remained relatively unchanged by closure activities. Water-contour maps (Figures 29 through 34, Appendix C) for the monitored water-bearing units illustrate groundwater flow patterns for first and second quarters 1993. Large-scale potentiometric maps for these hydrostratigraphic units during the first half of 1993, required by section IIID.H.10.b.v of the permit, are located in Volume II of this report. Prior to 1993, maps were drawn on SRS grid coordinates, and flow directions were described according to SRS north. Using universal transverse Mercator (UTM) grid coordinates, flow in Aquifer Zone IIB₂ (Water Table) generally is to the south toward Fourmile Branch; flows in the upper and lower portions of Aquifer Zone IIB₁ (Barnwell/McBean) are south-southeast. Flow in Aquifer Unit IIA (Congaree) is northwest toward Upper Three Runs Creek. Flow in Aquifer Zone IIB₂ (Water Table) was south to

southeast during first and second quarters 1993. Flow in Aquifer Zone IIB₁ (Barnwell/McBean) was southeast during first and second quarters 1993. Flow in the Aquifer Unit IIA (Congaree) was northwest toward Upper Three Runs Creek during both quarters, consistent with previous quarters. Horizontal flow rate estimates for the 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 HASB

Unit	3Q92	4Q92	1Q93	2Q93
Aquifer Zone IIB ₂ (Water Table)	110-470	120-470	150-300	190-270
Aquifer Zone IIB ₁ (Barnwell/McBean, upper portion)	220-470	200-550	220-470	230-470
Aquifer Zone IIB ₁ (Barnwell/McBean, lower portion)	55-120	55-110	-	-
Aquifer Unit IIA (Congaree)	690	330	350	350

Horizontal flow rate calculations provide estimates of the transport rate of constituents originating from the HASB. Flow rates in Aquifer Zone IIB₂ (Water Table) and the upper and lower portions of Aquifer Zone IIB₁ (Barnwell/McBean) are calculated along two paths (designated flow paths A and B) to characterize the approximate maximum and minimum groundwater flow rates within these units in areas downgradient from the basins. The flow rate is calculated along a single flow path for Aquifer Unit IIA (Congaree). Flow rates are estimated using the following equation:

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

The hydraulic conductivity (Kh) constants are 10 ft/day for Aquifer Zone IIB₂ (Water Table), 10 ft/day for the upper portion of Aquifer Zone IIB₁ (Barnwell/McBean), 5.3 ft/day for the lower portion of Aquifer Zone IIB₁ (Barnwell/McBean), and 65 ft/day for Aquifer Unit IIA (Congaree) (Geraghty & Miller, 1990). An effective porosity value of 20% is used for each hydrostratigraphic unit (Jaegge et al., 1987). 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 path B of Aquifer Zone IIB₂ (Water Table) 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 upon 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.

Groundwater flow rates for first quarter 1993 were calculated as follows:

- Aquifer Zone IIB₂ (Water Table) (see Figure 29, Appendix C):

Flow path A

$$\frac{10}{0.20} \times \frac{26}{1600} \approx 0.81 \text{ ft/day}$$

$$0.81 \text{ ft/day} \times 365 \text{ days} \approx 300 \text{ ft/yr}$$

Flow path B

$$\frac{10}{0.20} \times \frac{14}{1750} \approx 0.40 \text{ ft/day}$$

$$0.40 \text{ ft/day} \times 365 \text{ days} \approx 150 \text{ ft/yr}$$

- Aquifer Zone IIB₁ (Barnwell/McBean) (see Figure 31, Appendix C):

Flow path A

$$\frac{10}{0.20} \times \frac{18}{700} \approx 1.3 \text{ ft/day}$$

$$1.3 \text{ ft/day} \times 365 \text{ days} \approx 470 \text{ ft/yr}$$

Flow path B

$$\frac{10}{0.20} \times \frac{18}{1500} \approx 0.60 \text{ ft/day}$$

$$0.60 \text{ ft/day} \times 365 \text{ days} \approx 220 \text{ ft/yr}$$

- Aquifer Unit IIA (Congaree) (see Figure 33, Appendix C):

$$\frac{65}{0.20} \times \frac{7}{2400} \approx 0.95 \text{ ft/day}$$

$$0.95 \text{ ft/day} \times 365 \text{ days} \approx 350 \text{ ft/yr}$$

Groundwater flow rates for second quarter 1993 were calculated as follows:

- Aquifer Zone IIB₂ (Water Table) (see Figure 30, Appendix C):

Flow path A

$$\frac{10}{0.20} \times \frac{22}{1500} \approx 0.73 \text{ ft/day}$$

$$0.73 \text{ ft/day} \times 365 \text{ days} \approx 270 \text{ ft/yr}$$

Flow path B

$$\frac{10}{0.20} \times \frac{18}{1700} \approx 0.53 \text{ ft/day}$$

$$0.53 \text{ ft/day} \times 365 \text{ days} \approx 190 \text{ ft/yr}$$

- Aquifer Zone IIB₁ (Barnwell/McBean) (see Figure 31, Appendix C):

Flow path A

$$\frac{10}{0.20} \times \frac{18}{700} \approx 1.3 \text{ ft/day}$$

$$1.3 \text{ ft/day} \times 365 \text{ days} \approx 470 \text{ ft/yr}$$

Flow path B

$$\frac{10}{0.20} \times \frac{14}{1100} \approx 0.64 \text{ ft/day}$$

$$0.64 \text{ ft/day} \times 365 \text{ days} \approx 230 \text{ ft/yr}$$

- Aquifer Unit IIA (Congaree) (see Figure 34, Appendix C):

$$\frac{65}{0.20} \times \frac{8}{2700} \approx 0.96 \text{ ft/day}$$

$$0.96 \text{ ft/day} \times 365 \text{ days} \approx 350 \text{ ft/yr}$$

Upgradient and Background Results

Wells HSB 65C, 66, and 85C are upgradient wells for Aquifer Zone IIB₂ (Water Table) (Figures 29 and 30, Appendix C). No wells monitor upgradient water quality in the upper portion of Aquifer Zone IIB₁ (Barnwell/McBean) (Figures 31 and 32, Appendix C). The upgradient wells in the lower portion of Aquifer Zone IIB₁ (Barnwell/McBean) are HSB 65B and

85B (Figures 31 and 32, Appendix C). The upgradient wells in Aquifer Unit IIA (Congaree) wells are HSB140A, 141A, and 146A (Figures 33 and 34, Appendix C).

During the first half of 1993, no constituent exceeded the GWPS in upgradient wells HSB140A and HSB146A. Laboratory measurements of pH in upgradient wells HSB 65C, HSB 66, HSB 85B, HSB 85C, and HSB141A were outside the range of the GWPS. Upgradient wells HSB 65C, HSB 66, HSB 85B, and HSB141A contained elevated levels of aluminum; upgradient wells HSB 85B and HSB141A contained elevated levels of tin; upgradient wells HSB 65C and HSB 66 contained elevated levels of tritium; upgradient well HSB 65B contained elevated levels of strontium-89; upgradient well HSB 65C contained elevated levels of strontium-90; and upgradient well HSB 66 contained elevated levels of zinc.

Wells HSB 66, 83A, and 85B are the designated background wells for the HASB. During the first half of 1993, only well HSB 83A contained no elevated constituents.

Conclusions

The groundwater at the HASB contains elevated levels of radionuclides and chemicals from 30 years of receiving contaminated waste water from the H-Area Separations Facility. During the first half of 1993, 25 constituents exceeded the GWPS in wells at the HASB. Samples from 116 of the 130 groundwater monitoring wells exhibited parameters exceeding the GWPS during first quarter 1993; samples from 108 wells exhibited parameters exceeding the GWPS during second quarter 1993.

During the first half of 1993, iodine-129, nonvolatile beta, strontium-90, technetium-99, and tritium were the primary radioactive analytes detected in elevated levels at the HASB, each occurring in 20 or more wells at least one quarter. These constituents exhibited the following maximum activities: iodine-129 ($1.1\text{E}+02$ pCi/L) during first quarter 1993 in well HSB114D; nonvolatile beta ($9.2\text{E}+03$ pCi/L) during first quarter 1993 in well HSB116D; strontium-90 ($2.5\text{E}+03$ pCi/L) during first quarter 1993 in well HSB116D; technetium-99 ($3.6\text{E}+04$ pCi/L) during second quarter 1993 in well HSB 86C; and tritium ($1.6\text{E}+04$ pCi/mL) during first and second quarters 1993 in well HSB 86C. Elevated activities of cobalt-60, nickel-63 (as calculated), gross alpha, radium-226, radium-228, strontium-89, uranium-233/234, and uranium-238 also were detected during this period but less frequently.

Aluminum and zinc were the primary metals that exceeded the GWPS during the first half of 1993, occurring in 25 or more wells each quarter. Aluminum occurred in a maximum concentration of $13,000\text{ }\mu\text{g/L}$ in well HSB102D during first quarter 1993, and zinc was found at a maximum concentration of $230\text{ }\mu\text{g/L}$ in well HSB 68C during first quarter 1993. Arsenic, copper, lead, mercury, nickel, tin, and vanadium also exceeded the GWPS in one or more HSB wells during the first half of 1993.

Nitrate and pH, which, along with aluminum, are monitored as water quality indicators exceeded the GWPS in numerous wells during the first half of 1993. Nitrate occurred at a maximum concentration of $86,000\text{ }\mu\text{g/L}$ in well HSB 69 during first quarter 1993. Most of the pH results were below pH 6.8, thus exceeding the acidic standard. The minimum pH was 3.7 in well HSB102D during the first quarter 1993; the maximum pH was 12 in well HSB141A during both first and second quarters and in well HSB123A during second quarter 1993.

Comparison of numbers of analyses above standards between current and historical data is inappropriate because standards were changed from final Primary Drinking Water Standards to SCDHEC's GWPS beginning first quarter 1993. Also, the list of constituents currently being analyzed has changed; for example, prior to 1993, most of the individual radionuclides were not routinely analyzed. However, comparison of current with historical data does indicate that gross alpha, nitrate, nonvolatile beta, and tritium continue to occur frequently in the HSB wells.

As in previous quarters, elevated constituents were found primarily in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean). Also as in previous quarters, several constituents at levels exceeding the GWPS occurred in one or more wells in Aquifer Unit IIA (Congaree), indicating that vertical pathways into the deeper water-bearing units exist at the HASB. A current groundwater flow model for the General Separations Area indicates that the vertical component beneath this area is important (GeoTrans, Inc., 1992).

During the first half of 1993, upgradient Aquifer Unit IIA (Congaree) wells HSB140A and HSB146A contained no elevated constituents. The remaining upgradient wells contained elevated levels of aluminum, strontium-89, strontium-90, tin, tritium, or zinc. Downgradient wells contained elevated levels of numerous metals and radionuclides and other constituents. 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 flow directions beneath the HASB have remained relatively unchanged for several years. Flows in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) are generally south to southeast toward Fourmile Branch (using UTM grid coordinates). Flow in Aquifer Unit IIA (Congaree) is generally northwest toward Upper Three Runs Creek.

The estimated groundwater flow rates during first quarter 1993 ranged from approximately 150 ft/yr to 300 ft/yr and from 220 ft/yr to 470 ft/yr in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean), respectively. The estimated flow rate in Aquifer Unit IIA (Congaree) was 350 ft/yr. Flow rates during second quarter 1993 ranged from approximately 190 ft/yr to 270 ft/yr and from 230 ft/yr to 470 ft/yr in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean), respectively; and 350 ft/yr in Aquifer Unit IIA (Congaree).

Errata

Third Quarter 1992:

- Prior to third quarter 1992, the results for 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).
- Page D-65, Well HSB 84D: The result for cobalt-60 of $5.4\text{E}+02 \pm 1.3\text{E}+02$ pCi/L is incorrect. The correct result is $5.4\text{E}+01 \pm 1.3\text{E}+01$ pCi/L. The corrected result does not exceed the standard for cobalt-60 presented in Appendix A.
- Page D-79, Well HSB 86D: The result for cobalt-60 of $7.8\text{E}+02 \pm 1.5\text{E}+02$ pCi/L is incorrect. The correct result is $7.8\text{E}+01 \pm 1.5\text{E}+01$ pCi/L. The corrected result does not exceed the standard for cobalt-60 presented in Appendix A.
- Page D-106, Well HSB108D: The result for cobalt-60 of $1.4\text{E}+02 \pm 1.4\text{E}+03$ pCi/L is incorrect. The correct result is $1.4\text{E}+02 \pm 2.1\text{E}+01$ pCi/L.
- Page D-108, Well HSB109D: The result for cobalt-60 of $2.6\text{E}+02 \pm 5.1\text{E}+03$ pCi/L is incorrect. The correct result is $2.6\text{E}+01 \pm 1.4\text{E}+01$ pCi/L. The corrected result does not exceed the standard for cobalt-60 presented in Appendix A.
- Page D-109, Well HSB109D: The result for niobium-95 should be deleted.
- Page D-121, Well HSB112E: The result for cobalt-60 of $1.8\text{E}+02 \pm 8.3\text{E}+01$ pCi/L is not correct. The correct result is $1.8\text{E}+01 \pm 8.3\text{E}+00$ pCi/L. The corrected result does not exceed the standard for cobalt-60 presented in Appendix A.

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 database); (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.

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Appendix A – Groundwater Protection Standard

Groundwater Protection Standard

Established for the H-Area Seepage Basins by the September 30, 1992, modification of South Carolina Hazardous Waste Permit SC1-890-008-989.

Analyte	Unit	Concentration/Activity Limit

SCHWMR 264.94 Table 1 Hazardous Constituents

Arsenic	µg/L	50
Barium	µg/L	1,000
Cadmium	µg/L	10
Chromium	µg/L	50
Lead	µg/L	50
Lindane	µg/L	4
Mercury	µg/L	2
Selenium	µg/L	10
Silver	µg/L	50

SCHWMR 261 Appendix VIII/CFR 264 Appendix IX Hazardous Constituents

Antimony	µg/L	30
Benzene	µg/L	5
Cobalt	µg/L	70
Copper	µg/L	60
Cyanide	µg/L	5 ^a
Nickel	µg/L	50
Tin	µg/L	10 ^b
Trichloroethylene	µg/L	5
Trichlorofluoromethane	µg/L	5
Vanadium	µg/L	80
Zinc	µg/L	20

Water Quality Indicator Parameters

Aluminum	µg/L	50–200 ^c
Nitrate	µg/L	10,000
pH	pH	6.8–8.5

Common Laboratory Contaminants

Bis (2-ethylhexyl) phthalate	µg/L	10
Dichloromethane (Methylene chloride)	µg/L	5

Radiological Indicator Parameters

Gross alpha	pCi/L	15
Nonvolatile beta	pCi/L	50 ^d

Measured Radionuclides*

Americium-241	pCi/L	6.34E+00
Cobalt-60	pCi/L	1E+02
Curium-242	pCi/L	1.33E+02
Curium-243/244	pCi/L	8.3E+00

<u>Analyte</u>	<u>Unit</u>	<u>Concentration/Activity Limit</u>
Curium-245/246	pCi/L	6.23E+00
Curium-246	pCi/L	6.27E+00
Iodine-129	pCi/L	1E+00
Plutonium-238	pCi/L	7.02E+00
Plutonium-239/240	pCi/L	6.21E+01
Radium-226	pCi/L	2E+01
Radium-228	pCi/L	2E+01
Radium, total (Radium-226 and -228)	pCi/L	5E+00
Strontium-89	pCi/L	2E+01
Strontium-90	pCi/L	8E+00
Technetium-99	pCi/L	9E+02
Thorium-228	pCi/L	1.25E+02
Thorium-230	pCi/L	7.92E+01
Thorium-232	pCi/L	8.8E+01
Thorium-234	pCi/L	4.01E+02
Tritium	pCi/mL	2.0E+01
Uranium-233/234	pCi/L	1.38E+01
Uranium-235	pCi/L	1.45E+01
Uranium-238	pCi/L	1.46E+01

Calculated Radionuclides^f

Americium-243	pCi/L	6.37E+00
Nickel-63	pCi/L	5E+01
Plutonium-241	pCi/L	6.26E+01
Plutonium-242	pCi/L	6.54E+01

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- ^a The suggested analytical method for cyanide in Appendix IX (EPA, 1992) is 9010, with a PQL of 40 µg/L; however, the method specified in the SRS contract with the analytical laboratory for analyzing cyanide in the Appendix IX suite is 9012, with a PQL of 5 µg/L.
  - ^b The suggested analytical method for tin in Appendix IX (EPA, 1992) is 7870, with a PQL of 8,000 µg/L; however, the method specified in the SRS contract with the analytical laboratory for analyzing tin in the Appendix IX suite is 6010, with a PQL of 10 µg/L.
  - ^c SRS takes a conservative approach by flagging aluminum results at the bottom of this range.
  - ^d 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.
  - ^e The activity limits used in this report are final or proposed drinking water standards. When radionuclide analyses are combined, the lower standard of the two isotopes is used. The GWPS is based on background levels, not drinking water standards. A study to establish such levels at SRS is being conducted; results are expected for use in the 1993 annual report.
  - ^f The activities of these radionuclides were calculated as ratios of measured activities of other radionuclides. The activity ratios are as follows: americium-243/curium-243/244 ≈ 3E-03; nickel-63/cobalt-60 ≈ 1; plutonium-241/plutonium-239/240 ≈ 4; and plutonium-242/plutonium-239/240 ≈ 2E-05.

References Cited

- EPA (U.S. Environmental Protection Agency), 1992. *Appendix IX—Ground-Water Monitoring List. Code of Federal Regulations*, Title 40, Part 264, pp. 324–330. Washington, DC.
- SCDHEC (South Carolina Department of Health and Environmental Control), 1992 (modification effective date). **Hazardous Waste Permit SC1-890-008-989**. Office of Environmental Quality Control, Bureau of Solid and Hazardous Waste Management, Columbia, SC.

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 625
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-sec-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 ^o	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 ^o	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
Methapyriline	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	3E+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 8280
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 ^d	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 H-Area Seepage Basins at the Savannah River Site

Figure 2. Location of the Groundwater Monitoring Wells at the H-Area Seepage Basins

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						
	Congaree/ Fishburne Formations				Aquifer Unit IIA		
	Williamsburg Formation				Confining System I-II		
	Ellenton Formation						

Aadland, 1990

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	A Q U I F E R U N I T I/II	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	TOBACCO RD FM			ZONE 7	7a						AQUIFER UNIT I/IC			
			DRY BRANCH FM				7b									
							7c									
	McBEAN AQUITARD GREEN CLAY	McBEAN FORMATION GREEN CLAY				ZONE 6										
	CONGAREE AQUIFER	CONGAREE		AQUIFER 3	ZONE 5	5b	CONFINING UNIT IIA-IIB				AQUIFER UNIT IIA	CONFINING SYSTEM I-II				
ELLENTON AQUITARD	WILLIAMSBURG FORMATION		AQUITARD 2	ZONE 4	5a											
	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/IC	AQUIFER UNIT I/IIB	AQUIFER UNIT IB	AQUIFER SYSTEM I		
	MID TUSCALOOSA AQUITARD	BLACK CREEK FORMATION				AQUITARD 1	CONFINING UNIT								ZONE 2	3a
	LOWER TUSCALOOSA AQUIFER	MIDDENDORF FORMATION		AQUIFER 1	MIDDENDORF AQUIFER											2c
	BASAL CLAY AQUITARD	CAPE FEAR FORMATION		BASE OF MODEL	CONFINING UNIT	ZONE 1	2b									
							2a									
TRIASSIC OR PALEOZOIC BASEMENT											PALEOZOIC - TRIASSIC BASEMENT HYDROLOGIC SYSTEM					

Figure 4. Regional Correlation of Hydrostratigraphic and Lithostratigraphic Nomenclatures

Figure 5. Location of Aquifer Zone IIB₂ (Water Table) Groundwater Monitoring Wells at the H-Area Seepage Basins

Figure 6. Location of Aquifer Zone IIB₁ (Barnwell/McBean) Groundwater Monitoring Wells at the H-Area Seepage Basins

Figure 7. Location of Aquifer Unit IIA (Congaree) Groundwater Monitoring Wells at the H-Area Seepage Basins

Figure 8. Gross Alpha Activities in Aquifer Zone IIB₂ (Water Table) at the H-Area Seepage Basins, Second Quarter 1993

Figure 9. Gross Alpha Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the H-Area Seepage Basins, Second Quarter 1993

Figure 10. Gross Alpha Activities in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Second Quarter 1993

Figure 11. Mercury Concentrations in Aquifer Zone IIB₂ (Water Table) at the H-Area Seepage Basins, Second Quarter 1993

Figure 12. Mercury Concentrations in Aquifer Zone IIB₁ (Barnwell/McBean) at the H-Area Seepage Basins, Second Quarter 1993

Figure 13. Mercury Concentrations in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Second Quarter 1993

Figure 14. Nitrate Concentrations in Aquifer Zone IIB₁ (Water Table) at the H-Area Seepage Basins, Second Quarter 1993

Figure 15. Nitrate Concentrations in Aquifer Zone IIB₁ (Barnwell/McBean) at the H-Area Seepage Basins, Second Quarter 1993

Figure 16. Nitrate Concentrations in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Second Quarter 1993

Figure 18. Nonvolatile Beta Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the H-Area Seepage Basins, Second Quarter 1993

Figure 19. Nonvolatile Beta Activities in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Second Quarter 1993

Figure 21. Radium-226 Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the H-Area Seepage Basins, Second Quarter 1993

Figure 22. Radium-226 Activities in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Second Quarter 1993

Figure 23. Radium-228 Activities in Aquifer Zone IIB₂ (Water Table) at the H-Area Seepage Basins, Second Quarter 1993

Figure 25. Radium-228 Activities in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Second Quarter 1993

Figure 26. Tritium Activities in Aquifer Zone IIB₂ (Water Table) at the H-Area Seepage Basins, Second Quarter 1993

Figure 27. Tritium Activities in Aquifer Zone IIB, (Barnwell/McBean) at the H-Area Seepage Basins, Second Quarter 1993

Figure 28. Tritium Activities in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Second Quarter 1993

Figure 31. Potentiometric Surface Map of Aquifer Zone IIB₁ (Barnwell/McBean) at the H-Area Seepage Basins, First Quarter 1993

Figure 32. Potentiometric Surface Map of Aquifer Zone IIB₁ (Barnwell/McBean) at the H-Area Seepage Basins, Second Quarter 1993

Figure 33. Potentiometric Surface Map of Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, First Quarter 1993

Figure 34. Potentiometric Surface Map of Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Second Quarter 1993

Figure 35. pH Levels in Aquifer Zone IIB₂ (Water Table) at the H-Area Seepage Basins, Second Quarter 1993

Figure 36. pH Levels in Aquifer Zone IIB, (Barnwell/McBean) at the H-Area Seepage Basins, Second Quarter 1993

Figure 37. pH Levels in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Second Quarter 1993

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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., $1.1\text{E}-09 = 1.1 \times 10^{-9} = 0.0000000011$)
 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
 MSL = 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.
 $\mu\text{g/L}$ = micrograms per liter
 $\mu\text{S/cm}$ = microsiemens per centimeter

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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 Groundwater Protection Standard.**Aquifer Zone IIB₂ (Water table)**

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 65	Aluminum	µg/L	65		- ^a	
	pH	pH	5.0	J	5.1	J
	Tritium	pCi/mL	3.2E + 01		4.0E + 01	
HSB 65C	Aluminum	µg/L	67		-	
	pH	pH	5.1	J	5.3	J
	Strontium-90	pCi/L	-		1.1E + 01	
	Tritium	pCi/mL	2.5E + 01		-	
HSB 66	Aluminum	µg/L	200		85	
	pH	pH	5.3	J	5.5	J
	Tritium	pCi/mL	-		3.1E + 01	
	Zinc	µg/L	-		23	
HSB 67	Aluminum	µg/L	1,300		590	
	Gross alpha	pCi/L	2.1E + 01		2.1E + 01	
	Nitrate as nitrogen	µg/L	37,000		-	
	Nonvolatile beta	pCi/L	1.2E + 03		2.9E + 02	
	pH	pH	4.2	J	4.6	J
	Strontium-89	pCi/L	4.3E + 02		-	
	Strontium-90	pCi/L	4.3E + 02		1.6E + 02	
	Technetium-99	pCi/L	4.0E + 03		3.5E + 03	
	Tritium	pCi/mL	1.9E + 03		1.3E + 03	
HSB 68	Aluminum	µg/L	3,600		NA ^b	
	Gross alpha	pCi/L	2.3E + 01		NA	
	Mercury	µg/L	2.2		NA	
	Nickel-63	pCi/L	8.8E + 01	C	NA	
	Nitrate as nitrogen	µg/L	38,000		NA	
	Nonvolatile beta	pCi/L	5.6E + 03		NA	
	pH	pH	3.8	J	NA	
	Strontium-89	pCi/L	8.7E + 02		NA	
	Strontium-90	pCi/L	1.5E + 03		NA	
	Technetium-99	pCi/L	9.2E + 03		NA	
	Tritium	pCi/mL	5.2E + 03		NA	
	Zinc	µg/L	56		NA	
HSB 69	Aluminum	µg/L	4,400		4,800	
	Cobalt-60	pCi/L	1.6E + 02		1.5E + 02	
	Gross alpha	pCi/L	1.9E + 01		3.3E + 01	
	Iodine-129	pCi/L	-		1.1E + 01	
	Nickel-63	pCi/L	1.6E + 02	C	1.5E + 02	C
	Nitrate as nitrogen	µg/L	86,000		18,000	
	Nonvolatile beta	pCi/L	4.5E + 03		4.9E + 03	
	pH	pH	3.9	J	4.0	J
	Strontium-89	pCi/L	1.6E + 02		6.9E + 02	
	Strontium-90	pCi/L	2.1E + 03		1.8E + 03	
	Technetium-99	pCi/L	1.6E + 03		-	
	Tritium	pCi/mL	3.5E + 02		2.0E + 02	
	Zinc	µg/L	65		23	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 70	Aluminum	µg/L	100		130	
	Copper	µg/L	1,500		-	
	pH	pH	5.3	J	5.9	J
	Tritium	pCi/mL	-		4.4E+01	
	Zinc	µg/L	36		-	
HSB 71	Aluminum	µg/L	83		-	
	pH	pH	6.2	J	5.4	J
	Tritium	pCi/mL	4.3E+01		6.5E+01	
HSB 83D	Aluminum	µg/L	99		56	
	pH	pH	5.4	J	5.6	J
	Strontium-90	pCi/L	9.6E+00		-	
	Technetium-99	pCi/L	2.0E+03		1.4E+03	
	Tritium	pCi/mL	7.1E+02		6.0E+02	
	Zinc	µg/L	28		-	
HSB 84D	Aluminum	µg/L	480		380	
	Nonvolatile beta	pCi/L	3.8E+02		2.4E+02	
	pH	pH	4.4	J	5.2	J
	Strontium-89	pCi/L	1.0E+02		8.6E+01	
	Strontium-90	pCi/L	5.7E+01		1.3E+02	
	Tritium	pCi/mL	4.2E+02		2.9E+02	
HSB 85C	pH	pH	5.1	J	5.2	J
HSB 86D	Aluminum	µg/L	2,100		920	
	Gross alpha	pCi/L	2.3E+01		-	
	Iodine-129	pCi/L	5.7E+00		-	
	Nickel-63	pCi/L	5.4E+01	C	-	
	Nitrate as nitrogen	µg/L	20,000		13,000	
	Nonvolatile beta	pCi/L	9.7E+02		5.3E+02	
	pH	pH	4.8	J	4.5	J
	Radium-226	pCi/L	-		2.3E+01	
	Strontium-89	pCi/L	2.4E+02		3.3E+01	
	Strontium-90	pCi/L	1.3E+02		2.7E+02	
	Technetium-99	pCi/L	5.4E+03		5.2E+03	
	Tritium	pCi/mL	3.0E+03		2.3E+03	
	Zinc	µg/L	33		-	
HSB100D	pH	pH	5.5	J	5.5	J
	Strontium-90	pCi/L	9.2E+00		2.5E+01	
	Technetium-99	pCi/L	1.1E+03		1.7E+03	
	Tritium	pCi/mL	7.0E+02		1.2E+03	
	Zinc	µg/L	82		70	
HSB101D	Aluminum	µg/L	770		630	
	Arsenic	µg/L	76		100	
	Gross alpha	pCi/L	-		1.5E+01	
	Mercury	µg/L	4.0		5.6	
	Nitrate as nitrogen	µg/L	45,000		41,000	
	pH	pH	9.5	J	9.5	J
	Strontium-90	pCi/L	7.9E+01		8.2E+00	
	Technetium-99	pCi/L	2.4E+04		2.1E+04	
	Tritium	pCi/mL	1.1E+04		9.9E+03	
	Vanadium	µg/L	360		430	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB102D	Aluminum	µg/L	13,000		NA	
	Copper	µg/L	70		NA	
	Gross alpha	pCi/L	1.7E+02		NA	
	Mercury	µg/L	3.9		NA	
	Nickel-63	pCi/L	7.6E+01	C	NA	
	Nitrate as nitrogen	µg/L	40,000		NA	
	Nonvolatile beta	pCi/L	4.6E+03		NA	
	pH	pH	3.7	J	NA	
	Strontium-89	pCi/L	3.9E+02		NA	
	Strontium-90	pCi/L	1.6E+03		NA	
	Technetium-99	pCi/L	1.8E+04		NA	
	Tritium	pCi/mL	8.8E+03		NA	
	Uranium-233/234	pCi/L	5.4E+01		NA	
	Uranium-238	pCi/L	5.8E+01		NA	
	Zinc	µg/L	110		NA	
HSB103D	Aluminum	µg/L	1,500		740	
	Gross alpha	pCi/L	2.4E+01		1.7E+01	
	Iodine-129	pCi/L	1.5E+01		1.3E+01	
	Nitrate as nitrogen	µg/L	19,000		23,000	
	Nonvolatile beta	pCi/L	7.3E+02		4.1E+02	
	pH	pH	4.4	J	4.6	J
	Strontium-89	pCi/L	1.3E+02		2.8E+01	
	Strontium-90	pCi/L	2.7E+02		2.2E+02	
	Technetium-99	pCi/L	4.6E+03		2.6E+03	
	Tritium	pCi/mL	2.1E+03		1.5E+03	
HSB104D	Aluminum	µg/L	4,700		3,900	
	Gross alpha	pCi/L	4.7E+01		1.8E+01	
	Iodine-129	pCi/L	3.1E+00		2.1E+00	
	Nitrate as nitrogen	µg/L	15,000		15,000	
	Nonvolatile beta	pCi/L	2.2E+03		2.0E+03	
	pH	pH	4.2	J	4.3	J
	Strontium-89	pCi/L	1.2E+03		2.4E+02	
	Strontium-90	pCi/L	5.3E+02		8.9E+02	
	Technetium-99	pCi/L	2.4E+03		2.8E+03	
	Tritium	pCi/mL	1.0E+03		8.8E+02	
	Zinc	µg/L	25		77	
HSB105D	Aluminum	µg/L	5,100		5,300	
	Gross alpha	pCi/L	2.8E+01		3.5E+03	
	Iodine-129	pCi/L	1.6E+01		5.8E+00	
	Mercury	µg/L	4.1		3.7	
	Nitrate as nitrogen	µg/L	30,000		33,000	
	Nonvolatile beta	pCi/L	3.1E+03		1.4E+03	
	pH	pH	4.0	J	4.1	J
	Strontium-89	pCi/L	2.5E+02		5.0E+02	
	Strontium-90	pCi/L	9.6E+02		5.1E+02	
	Technetium-99	pCi/L	1.2E+04		7.0E+03	
	Tritium	pCi/mL	4.9E+03		3.0E+03	
	Zinc	µg/L	42		50	
HSB106D	Aluminum	µg/L	560		430	
	Nonvolatile beta	pCi/L	2.9E+02		2.0E+02	
	pH	pH	4.3	J	4.4	J
	Radium-228	pCi/L	5.6E+01	Y	NA	
	Strontium-90	pCi/L	1.4E+02	Y	NA	
	Tritium	pCi/mL	7.3E+02		4.9E+02	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB107D	Aluminum	µg/L	110		110	
	Gross alpha	pCi/L	-		4.1E+03	
	Iodine-129	pCi/L	5.9E+00		2.5E+00	
	Mercury	µg/L	3.0		3.2	
	Nitrate as nitrogen	µg/L	24,000		25,000	
	Nonvolatile beta	pCi/L	2.6E+03		1.7E+03	
	pH	pH	5.3	J	5.0	J
	Strontium-89	pCi/L	6.7E+02		1.8E+02	
	Strontium-90	pCi/L	6.3E+02		1.0E+03	
	Technetium-99	pCi/L	9.1E+03		5.6E+03	
	Tritium	pCi/mL	3.1E+03		2.4E+03	
HSB108D	Aluminum	µg/L	1,600		NA	
	Gross alpha	pCi/L	3.4E+01		NA	
	Iodine-129	pCi/L	7.6E+00		NA	
	Mercury	µg/L	3.5		NA	
	Nickel-63	pCi/L	8.5E+01	C	NA	
	Nitrate as nitrogen	µg/L	20,000		NA	
	Nonvolatile beta	pCi/L	3.2E+03		NA	
	pH	pH	4.4	J	NA	
	Strontium-89	pCi/L	8.9E+02		NA	
	Strontium-90	pCi/L	1.0E+03		NA	
	Technetium-99	pCi/L	3.8E+03		NA	
	Tritium	pCi/mL	2.0E+03		NA	
	Zinc	µg/L	34		NA	
HSB109D	Aluminum	µg/L	810		670	
	Iodine-129	pCi/L	4.0E+00		-	
	Nonvolatile beta	pCi/L	9.6E+02		8.3E+02	
	pH	pH	4.3	J	4.5	J
	Strontium-89	pCi/L	3.5E+01		5.7E+01	
	Strontium-90	pCi/L	6.7E+02		3.7E+02	
	Technetium-99	pCi/L	-		1.7E+03	
	Tritium	pCi/mL	2.0E+02		2.5E+02	
	Zinc	µg/L	25		24	
HSB110D	Aluminum	µg/L	120		210	
	Nonvolatile beta	pCi/L	5.8E+01		7.4E+01	
	pH	pH	5.7	J	6.0	J
	Strontium-89	pCi/L	2.4E+01		-	
	Strontium-90	pCi/L	1.3E+01		4.0E+01	
	Tritium	pCi/mL	2.3E+01		2.4E+01	
HSB111D	Aluminum	µg/L	260		190	
	Iodine-129	pCi/L	6.7E+00		-	
	Nitrate as nitrogen	µg/L	59,000		51,000	
	Nonvolatile beta	pCi/L	6.9E+01		1.0E+02	
	pH	pH	5.2	J	5.4	J
	Technetium-99	pCi/L	2.0E+04		2.0E+04	
	Tritium	pCi/mL	1.1E+04		1.0E+04	
HSB111E	Aluminum	µg/L	420		340	
	Nonvolatile beta	pCi/L	2.4E+02		1.6E+02	
	pH	pH	4.5	J	4.6	J
	Strontium-90	pCi/L	1.1E+02		8.5E+01	
	Technetium-99	pCi/L	6.6E+03		8.1E+03	
	Tritium	pCi/mL	2.9E+03		4.3E+03	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB112D	Aluminum	µg/L	90		83	
	Iodine-129	pCi/L	9.7E+00		7.0E+00	
	Nitrate as nitrogen	µg/L	46,000		38,000	
	Nonvolatile beta	pCi/L	5.3E+01		-	
	pH	pH	5.0	J	5.7	J
	Technetium-99	pCi/L	2.5E+04		2.1E+04	
	Tritium	pCi/mL	1.2E+04		1.0E+04	
HSB112E	Aluminum	µg/L	330		240	
	Iodine-129	pCi/L	5.5E+00		-	
	Nitrate as nitrogen	µg/L	34,000		21,000	
	Nonvolatile beta	pCi/L	2.0E+02		1.4E+02	
	pH	pH	5.3	J	5.1	J
	Strontium-90	pCi/L	1.4E+02		8.5E+01	
	Technetium-99	pCi/L	1.1E+04		7.7E+03	
	Tritium	pCi/mL	6.5E+03		3.8E+03	
	Zinc	µg/L	26		28	
HSB113D	Aluminum	µg/L	7,400		8,200	
	Cobalt-60	pCi/L	1.5E+02		1.6E+02	
	Gross alpha	pCi/L	4.0E+01		7.3E+01	
	Iodine-129	pCi/L	2.7E+01		3.1E+01	
	Nickel-63	pCi/L	1.5E+02	C	1.6E+02	C
	Nitrate as nitrogen	µg/L	34,000		38,000	
	Nonvolatile beta	pCi/L	3.1E+03		2.9E+03	
	pH	pH	3.8	J	3.8	J
	Strontium-89	pCi/L	2.5E+02		1.6E+02	
	Strontium-90	pCi/L	1.4E+03		1.1E+03	
	Technetium-99	pCi/L	1.2E+04		1.6E+04	
	Tritium	pCi/mL	5.2E+03		7.8E+03	
	Zinc	µg/L	64		77	
HSB114D	Aluminum	µg/L	5,900		5,700	
	Cobalt-60	pCi/L	1.2E+02		1.2E+02	
	Gross alpha	pCi/L	5.0E+01		6.3E+01	
	Iodine-129	pCi/L	1.1E+02		4.8E+01	
	Nickel-63	pCi/L	1.2E+02	C	1.2E+02	C
	Nitrate as nitrogen	µg/L	27,000		35,000	
	Nonvolatile beta	pCi/L	2.5E+03		2.2E+03	
	pH	pH	4.2	J	4.1	J
	Radium-226	pCi/L	-		3.0E+01	
	Strontium-89	pCi/L	-		1.8E+02	
	Strontium-90	pCi/L	8.7E+02		9.1E+02	
	Technetium-99	pCi/L	7.2E+03		2.0E+04	
	Tritium	pCi/mL	3.1E+03		9.3E+03	
	Zinc	µg/L	82		75	
HSB115D	Aluminum	µg/L	4,800		4,000	
	Cobalt-60	pCi/L	-		1.5E+02	
	Gross alpha	pCi/L	5.6E+01		4.7E+01	
	Iodine-129	pCi/L	4.7E+00		2.2E+01	
	Nickel	µg/L	-		51	
	Nickel-63	pCi/L	9.3E+01	C	1.5E+02	C
	Nitrate as nitrogen	µg/L	34,000		37,000	
	Nonvolatile beta	pCi/L	3.1E+03		2.2E+03	
	pH	pH	4.0	J	4.1	J
	Strontium-89	pCi/L	-		2.0E+02	
	Strontium-90	pCi/L	9.9E+02		1.2E+03	
	Technetium-99	pCi/L	1.8E+04		2.5E+04	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
	Tritium	pCi/mL	7.4E + 03		1.0E + 04	
	Zinc	µg/L	140		110	
HSB116D	Aluminum	µg/L	2,200		NA	
	Cobalt-60	pCi/L	2.1E + 02		NA	
	Gross alpha	pCi/L	2.2E + 01		NA	
	Iodine-129	pCi/L	1.2E + 01		NA	
	Nickel-63	pCi/L	2.1E + 02	C	NA	
	Nitrate as nitrogen	µg/L	34,000		NA	
	Nonvolatile beta	pCi/L	9.2E + 03		NA	
	pH	pH	4.1	J	NA	
	Radium-226	pCi/L	2.1E + 01		NA	
	Strontium-89	pCi/L	4.0E + 02		NA	
	Strontium-90	pCi/L	2.5E + 03		NA	
	Technetium-99	pCi/L	2.7E + 03		NA	
	Tritium	pCi/mL	1.5E + 03		NA	
	Zinc	µg/L	73		NA	
HSB117D	pH	pH	5.4	J	5.3	J
	Tritium	pCi/mL	8.1E + 01		6.9E + 01	
HSB125D	Aluminum	µg/L	76		88	
	Iodine-129	pCi/L	2.1E + 00		4.1E + 00	
	Mercury	µg/L	3.3		4.3	
	Nitrate as nitrogen	µg/L	-		40,000	
	pH	pH	5.2	J	5.3	J
	Strontium-90	pCi/L	1.7E + 01		1.6E + 01	
	Technetium-99	pCi/L	6.2E + 03		9.3E + 03	
	Tritium	pCi/mL	1.8E + 03		3.9E + 03	
HSB126D	Aluminum	µg/L	400		420	
	Iodine-129	pCi/L	3.0E + 00		1.1E + 01	
	Mercury	µg/L	6.2		6.2	
	Nitrate as nitrogen	µg/L	55,000		52,000	
	pH	pH	4.8	J	5.3	J
	Technetium-99	pCi/L	1.2E + 04		7.5E + 03	
	Tritium	pCi/mL	4.7E + 03		4.6E + 03	
HSB127D	Aluminum	µg/L	160		97	
	Iodine-129	pCi/L	-		6.7E + 00	
	Mercury	µg/L	4.0		3.9	
	Nitrate as nitrogen	µg/L	28,000		22,000	
	Nonvolatile beta	pCi/L	-		6.7E + 01	
	pH	pH	4.9	J	4.9	J
	Strontium-90	pCi/L	1.9E + 01		1.5E + 01	
	Technetium-99	pCi/L	5.1E + 03		1.4E + 04	
	Tritium	pCi/mL	6.7E + 03		4.9E + 03	
HSB129D	Aluminum	µg/L	780		150	
	Iodine-129	pCi/L	5.0E + 00		2.2E + 00	
	Nitrate as nitrogen	µg/L	33,000		35,000	
	Nonvolatile beta	pCi/L	5.9E + 01		6.5E + 01	
	pH	pH	4.9	J	4.9	J
	Technetium-99	pCi/L	1.1E + 04		1.1E + 04	
	Tritium	pCi/mL	4.4E + 03		4.4E + 03	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB130D	pH	pH	6.8	J	-	
HSB131D	Aluminum	µg/L	240		-	
	pH	pH	5.4	J	5.4	J
	Tritium	pCi/mL	2.0E + 01		-	
HSB132D	Aluminum	µg/L	72		71	
	pH	pH	5.3	J	5.8	J
	Tritium	pCi/mL	-		2.7E + 01	
	Zinc	µg/L	24		37	
HSB133D	Gross alpha	pCi/L	-		2.3E + 01	
	pH	pH	5.8	J	5.9	J
	Strontium-90	pCi/L	-		1.7E + 01	
	Tritium	pCi/mL	2.8E + 01		3.3E + 01	
HSB134D	Aluminum	µg/L	490		570	
	Nitrate as nitrogen	µg/L	14,000		-	
	Nonvolatile beta	pCi/L	6.9E + 02		5.8E + 02	
	pH	pH	4.6	J	4.6	J
	Strontium-89	pCi/L	-		2.4E + 01	
	Strontium-90	pCi/L	4.7E + 02		2.2E + 02	
	Technetium-99	pCi/L	2.8E + 03		1.9E + 03	
	Tritium	pCi/mL	1.1E + 03		3.5E + 02	
HSB135D	Aluminum	µg/L	-		53	
	pH	pH	5.2	J	5.7	J
	Strontium-90	pCi/L	9.2E + 00		-	
	Tritium	pCi/mL	9.2E + 01		1.4E + 02	
HSB136D	Aluminum	µg/L	3,300		4,500	
	Cobalt-60	pCi/L	1.5E + 02		1.3E + 02	
	Gross alpha	pCi/L	4.9E + 01		7.4E + 01	
	Iodine-129	pCi/L	6.8E + 00		3.3E + 00	
	Nickel-63	pCi/L	1.5E + 02	C	1.3E + 02	C
	Nitrate as nitrogen	µg/L	19,000		24,000	
	Nonvolatile beta	pCi/L	2.9E + 03		2.5E + 03	
	pH	pH	4.3	J	4.1	J
	Radium-226	pCi/L	4.8E + 01		-	
	Strontium-89	pCi/L	3.7E + 01		1.4E + 02	
	Strontium-90	pCi/L	7.0E + 02		1.1E + 03	
	Technetium-99	pCi/L	6.7E + 03		7.8E + 03	
	Tritium	pCi/mL	2.5E + 03		3.5E + 03	
	Zinc	µg/L	44		54	
HSB137D	Aluminum	µg/L	79		78	
	Copper	µg/L	74		-	
	Nitrate as nitrogen	µg/L	11,000		-	
	pH	pH	5.7	J	5.3	J
	Strontium-90	pCi/L	1.7E + 01		1.4E + 01	
	Technetium-99	pCi/L	1.2E + 04		3.9E + 03	
	Tritium	pCi/mL	2.4E + 03		1.6E + 03	
	Zinc	µg/L	80		41	
HSB138D	Aluminum	µg/L	-		59	
	pH	pH	6.0	J	6.4	J
	Tritium	pCi/mL	5.6E + 01		2.6E + 01	
	Zinc	µg/L	61		30	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB139D	pH	pH	5.5	J	5.4	J
	Tritium	pCi/mL	-		4.8E+01	
HSB140D	pH	pH	5.1	J	5.6	J
HSB141D	Aluminum	µg/L	830		170	
	pH	pH	5.3	J	5.3	J
	Technetium-99	pCi/L	-		2.4E+04	
	Zinc	µg/L	26		-	
HSB142D	Aluminum	µg/L	1,500		260	
	pH	pH	4.8	J	5.2	J
	Tritium	pCi/mL	3.6E+02		3.6E+02	
	Zinc	µg/L	22		-	
HSB143D	pH	pH	5.1	J	5.0	J
HSB145D	Aluminum	µg/L	1,000		1,100	
	Gross alpha	pCi/L	3.9E+01		3.8E+01	
	Iodine-129	pCi/L	7.8E+00		1.1E+01	
	Mercury	µg/L	3.0		3.3	
	Nitrate as nitrogen	µg/L	45,000		41,000	
	Nonvolatile beta	pCi/L	4.0E+02		3.6E+02	
	pH	pH	6.2	J	6.0	J
	Strontium-89	pCi/L	-		4.8E+01	
	Strontium-90	pCi/L	1.5E+02		1.6E+02	
	Technetium-99	pCi/L	1.6E+04		1.7E+04	
	Tritium	pCi/mL	7.0E+03		8.3E+03	
HSB146D	Aluminum	µg/L	200		2,000	
	Copper	µg/L	-		84	
	pH	pH	6.1	J	5.8	J
	Technetium-99	pCi/L	-		1.6E+04	
	Zinc	µg/L	-		100	
HSB147D	Aluminum	µg/L	1,000		740	
	pH	pH	5.5	J	5.5	J
	Zinc	µg/L	79		140	
HSB148D	Aluminum	µg/L	450		370	
	pH	pH	8.9	J	-	
	Zinc	µg/L	-		24	
HSB149D	Aluminum	µg/L	70		57	
	pH	pH	5.2	J	5.0	J
	Tritium	pCi/mL	2.1E+01		2.5E+01	
HSB150D	Aluminum	µg/L	770		1,200	
	pH	pH	5.2	J	5.4	J
	Tritium	pCi/mL	-		4.4E+01	
HSB151D	Aluminum	µg/L	59		-	
	pH	pH	5.5	J	5.7	J
	Tritium	pCi/mL	1.1E+02		1.7E+02	
	Zinc	µg/L	21		-	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB152D	Aluminum	µg/L	2,300		1,100	
	Copper	µg/L	300		160	
	Lead	µg/L	150		-	
	pH	pH	5.5	J	5.3	J
	Tritium	pCi/mL	4.0E + 01		5.7E + 01	
	Zinc	µg/L	200		120	

Aquifer Zone IIB₁ (Barnwell/McBean, upper portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 68C	Aluminum	µg/L	77		-	
	Copper	µg/L	2,200		100	
	Nitrate as nitrogen	µg/L	10,000		10,000	
	pH	pH	5.6	J	6.0	J
	Technetium-99	pCi/L	4.3E + 03		9.5E + 03	
	Tritium	pCi/mL	2.9E + 03		3.2E + 03	
	Zinc	µg/L	230		170	
HSB 70C	Aluminum	µg/L	-		120	
	Nitrate as nitrogen	µg/L	31,000		30,000	
	Nonvolatile beta	pCi/L	1.2E + 02		6.1E + 01	
	pH	pH	8.7	J	11	J
	Technetium-99	pCi/L	7.2E + 03		9.8E + 03	
	Tin	µg/L	-		13	
	Tritium	pCi/mL	3.9E + 03		3.3E + 03	
HSB 71C	Aluminum	µg/L	920		3,900	
	Gross alpha	pCi/L	-		2.0E + 01	
	Iodine-129	pCi/L	4.3E + 00		4.7E + 00	
	Nitrate as nitrogen	µg/L	51,000		44,000	
	Nonvolatile beta	pCi/L	1.4E + 02		1.3E + 02	
	pH	pH	11	J	10	J
	Technetium-99	pCi/L	1.7E + 04		1.6E + 04	
	Tin	µg/L	12		-	
	Tritium	pCi/mL	6.7E + 03		5.9E + 03	
	Zinc	µg/L	-		56	
HSB 83C	pH	pH	5.7	J	5.7	J
HSB 84C	Aluminum	µg/L	-		130	
	Tritium	pCi/mL	4.0E + 02		4.0E + 02	
	Zinc	µg/L	140		140	
HSB 86C	Aluminum	µg/L	940		1,300	
	Gross alpha	pCi/L	2.5E + 01		4.8E + 01	
	Iodine-129	pCi/L	1.2E + 01		1.1E + 01	
	Nickel	µg/L	51		-	
	Nickel-63	pCi/L	5.8E + 01	C	5.9E + 01	C
	Nitrate as nitrogen	µg/L	47,000		46,000	
	Nonvolatile beta	pCi/L	7.5E + 02		1.2E + 03	
	pH	pH	4.4	J	3.8	J
	Strontium-89	pCi/L	1.7E + 02		1.0E + 02	
	Strontium-89/90	pCi/L	7.1E + 02			
	Strontium-90	pCi/L	1.1E + 02		7.0E + 02	
	Technetium-99	pCi/L	3.1E + 04		3.6E + 04	

Aquifer Zone IIB₁ (Barnwell/McBean, upper portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
	Tritium	pCi/mL	1.6E + 04		1.6E + 04	
	Zinc	µg/L	44		42	
HSB100C	pH	pH	5.9	J	6.1	J
HSB101C	pH	pH	6.3	J	6.4	J
HSB102C	Aluminum	µg/L	-		56	
	Nitrate as nitrogen	µg/L	16,000		16,000	
	pH	pH	6.2	J	6.1	J
	Tritium	pCi/mL	1.8E + 02		2.0E + 02	
HSB103C	Aluminum	µg/L	200		180	
	Nitrate as nitrogen	µg/L	23,000		23,000	
	pH	pH	5.3	J	5.6	J
	Technetium-99	pCi/L	1.4E + 03		1.1E + 03	
	Tritium	pCi/mL	7.1E + 02		6.6E + 02	
HSB104C	Aluminum	µg/L	420		450	
	pH	pH	10	J	10	J
	Strontium-90	pCi/L	-		8.7E + 00	
	Tin	µg/L	18		18	
	Tritium	pCi/mL	2.7E + 02		2.6E + 02	
HSB105C	pH	pH	5.8	J	6.2	J
	Tritium	pCi/mL	9.1E + 01		9.6E + 01	
HSB106C	pH	pH	5.8	J	5.9	J
	Tritium	pCi/mL	3.1E + 02		3.0E + 02	
HSB107C	Technetium-99	pCi/L	-		2.2E + 03	
	Tritium	pCi/mL	4.0E + 02		3.4E + 02	
HSB108C	Technetium-99	pCi/L	-		1.2E + 03	
	Tritium	pCi/mL	3.0E + 02		2.8E + 02	
HSB109C	pH	pH	6.1	J	6.4	J
	Tritium	pCi/mL	6.4E + 01		6.5E + 01	
HSB110C	Aluminum	µg/L	53		-	
	pH	pH	5.7	J	5.7	J
	Strontium-90	pCi/L	-		2.9E + 01	
	Tritium	pCi/mL	2.7E + 01		2.5E + 01	
HSB111C	Aluminum	µg/L	190		180	
	Nitrate as nitrogen	µg/L	20,000		21,000	
	pH	pH	5.2	J	5.3	J
	Technetium-99	pCi/L	5.8E + 03		5.0E + 03	
	Tritium	pCi/mL	2.8E + 03		2.8E + 03	
	Zinc	µg/L	30		30	
HSB112C	Aluminum	µg/L	120		95	
	Nitrate as nitrogen	µg/L	13,000		14,000	
	pH	pH	6.5	J	6.4	J
	Technetium-99	pCi/L	4.0E + 03		NA	
	Tritium	pCi/mL	1.8E + 03		1.7E + 03	
	Zinc	µg/L	25		26	

Aquifer Zone IIB₁ (Barnwell/McBean, upper portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB113C	Aluminum	µg/L	160		170	
	Nitrate as nitrogen	µg/L	16,000		15,000	
	pH	pH	5.6	J	5.6	J
	Technetium-99	pCi/L	3.1E+03		3.8E+03	
	Tritium	pCi/mL	1.5E+03		1.5E+03	
	Zinc	µg/L	30		37	
HSB114C	Aluminum	µg/L	670		510	
	Gross alpha	pCi/L	3.0E+01		3.3E+01	
	Iodine-129	pCi/L	6.1E+00		4.0E+00	
	Nitrate as nitrogen	µg/L	63,000		57,000	
	Nonvolatile beta	pCi/L	1.8E+02		1.3E+02	
	pH	pH	4.4	J	4.2	J
	Technetium-99	pCi/L	2.7E+04		2.3E+04	
	Tritium	pCi/mL	1.2E+04		1.2E+04	
	Zinc	µg/L	48		41	
HSB115C	Aluminum	µg/L	240		240	
	Gross alpha	pCi/L	1.6E+01		1.8E+01	
	Iodine-129	pCi/L	7.9E+00		9.1E+00	
	Nitrate as nitrogen	µg/L	48,000		44,000	
	Nonvolatile beta	pCi/L	1.1E+02		8.2E+01	
	pH	pH	6.5	J	6.6	J
	Strontium-90	pCi/L	1.1E+01		8.5E+00	
	Technetium-99	pCi/L	2.8E+04		3.1E+04	
	Tritium	pCi/mL	1.3E+04		1.3E+04	
HSB116C	Aluminum	µg/L	170		160	
	Gross alpha	pCi/L	-		1.9E+01	
	Iodine-129	pCi/L	3.4E+00		1.2E+01	
	Nitrate as nitrogen	µg/L	61,000		52,000	
	Nonvolatile beta	pCi/L	6.8E+01		7.7E+01	
	pH	pH	5.2	J	5.3	J
	Technetium-99	pCi/L	3.2E+04		3.1E+04	
	Tritium	pCi/mL	1.3E+04		1.2E+04	
HSB117C	Aluminum	µg/L	430		450	
	Iodine-129	pCi/L	2.4E+00		4.9E+00	
	Nitrate as nitrogen	µg/L	45,000		44,000	
	Nonvolatile beta	pCi/L	7.9E+01		-	
	pH	pH	4.9	J	5.0	J
	Technetium-99	pCi/L	1.6E+04		2.1E+04	
HSB125C	Tritium	pCi/mL	6.6E+03		7.1E+03	
	pH	pH	6.0	J	5.9	J
HSB126C	Nitrate as nitrogen	µg/L	22,000		-	
	Tritium	pCi/mL	2.9E+02		3.0E+02	
HSB127C	pH	pH	-		8.7	J
	Technetium-99	pCi/L	3.0E+03		2.3E+03	
	Tritium	pCi/mL	1.0E+03		9.5E+02	
HSB129C	Aluminum	µg/L	99		160	
	Nitrate as nitrogen	µg/L	18,000		13,000	
	pH	pH	5.9	J	-	
	Technetium-99	pCi/L	1.0E+04		3.6E+03	
	Trichloroethylene	µg/L	-		8.6	

Aquifer Zone IIB₁ (Barnwell/McBean, upper portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
	Tritium	pCi/mL	1.9E+03		1.6E+03	
	Zinc	µg/L	190		170	
HSB130C	pH	pH	-		8.8	J
HSB131C	Tritium	pCi/mL	1.6E+02		1.7E+02	
HSB132C	Aluminum	µg/L	130		84	
	pH	pH	5.3	J	5.8	J
	Strontium-89	pCi/L	-		4.1E+01	
	Tritium	pCi/mL	2.1E+01		-	
	Zinc	µg/L	25		-	
HSB133C	pH	pH	6.2	J	6.4	J
HSB134C	Aluminum	µg/L	-		53	
	pH	pH	-		5.9	J
	Tritium	pCi/mL	3.7E+01		3.9E+01	
HSB135C	Aluminum	µg/L	84		110	
	pH	pH	5.5	J	9.5	J
	Tritium	pCi/mL	6.7E+01		5.3E+01	
HSB136C	Aluminum	µg/L	130		110	
	Iodine-129	pCi/L	4.4E+00		3.4E+00	
	Nitrate as nitrogen	µg/L	41,000		38,000	
	Nonvolatile beta	pCi/L	1.0E+02		9.2E+01	
	pH	pH	9.8	J	10	J
	Technetium-99	pCi/L	2.0E+04		1.8E+04	
	Tin	µg/L	13		12	
	Tritium	pCi/mL	8.2E+03		7.8E+03	
HSB137C	Aluminum	µg/L	79		91	
	Iodine-129	pCi/L	6.2E+00		8.4E+00	
	Nitrate as nitrogen	µg/L	64,000		58,000	
	Nonvolatile beta	pCi/L	1.2E+02		1.2E+02	
	pH	pH	-		9.4	J
	Technetium-99	pCi/L	2.7E+04		2.5E+04	
	Tin	µg/L	-		11	
	Tritium	pCi/mL	1.1E+04		1.1E+04	
HSB139C	Aluminum	µg/L	180		140	
	Iodine-129	pCi/L	-		2.9E+00	
	Nitrate as nitrogen	µg/L	52,000		46,000	
	pH	pH	5.9	J	5.8	J
	Technetium-99	pCi/L	6.8E+03		6.4E+03	
	Tritium	pCi/mL	2.8E+03		2.7E+03	
	Zinc	µg/L	50		51	
HSB140C	pH	pH	5.9	J	6.1	J
HSB141C	Aluminum	µg/L	1,900		NA	
	pH	pH	11	J	NA	
	Tin	µg/L	16		NA	
HSB142C	pH	pH	6.0	J	5.7	J

Aquifer Zone IIB, (Barnwell/McBean, upper portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB143C	pH	pH	5.0	J	5.9	J
HSB145C	Aluminum	µg/L	1,100		280	
	Nitrate as nitrogen	µg/L	34,000		34,000	
	Nonvolatile beta	pCi/L	5.6E + 01		-	
	pH	pH	6.2	J	6.4	J
	Strontium-90	pCi/L	8.0E + 00		1.4E + 01	
	Technetium-99	pCi/L	4.2E + 03		3.5E + 03	
	Tin	µg/L	21		-	
	Tritium	pCi/mL	1.7E + 03		1.7E + 03	
	Zinc	µg/L	150		42	
HSB146C	Aluminum	µg/L	94		240	
	pH	pH	-		9.2	J
HSB148C	Aluminum	µg/L	700		670	
	pH	pH	11	J	11	J
	Tin	µg/L	14		17	
HSB151C	Aluminum	µg/L	110		110	
	pH	pH	5.7	J	5.0	J
	Technetium-99	pCi/L	3.8E + 03		3.0E + 03	
	Tritium	pCi/mL	1.6E + 03		1.5E + 03	
HSB152C	Aluminum	µg/L	86		88	
	Nitrate as nitrogen	µg/L	-		11,000	
	pH	pH	5.0	J	5.3	J
	Technetium-99	pCi/L	3.0E + 03		4.3E + 03	
	Tritium	pCi/mL	1.2E + 03		1.1E + 03	

Aquifer Zone IIB, (Barnwell/McBean, lower portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 65B	Strontium-89	pCi/L	3.4E + 01	4	-	
HSB 68B	Aluminum	µg/L	62		100	
	Tritium	pCi/mL	3.5E + 01		2.4E + 02	
	Zinc	µg/L	31		29	
HSB 83B	Aluminum	µg/L	60		75	
HSB 84B	Aluminum	µg/L	73		360	
	pH	pH	9.6	J	9.5	J
	Tritium	pCi/mL	6.6E + 01		1.4E + 02	
HSB 85B	Aluminum	µg/L	1,800		1,400	
	pH	pH	11	J	11	J
	Tin	µg/L	10		-	

Aquifer Unit IIA (Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 68A	Aluminum	µg/L	75		-	
HSB 84A	Nonvolatile beta	pCi/L	1.2E + 02		6.9E + 01	
	pH	pH	6.5	J	6.6	J
	Strontium-90	pCi/L	3.0E + 01		4.2E + 01	
	Tritium	pCi/mL	2.7E + 01		-	
HSB 86A	pH	pH	6.5	J	-	
HSB118A	Nitrate as nitrogen	µg/L	24,000		62,000	
	pH	pH	6.4	J	6.7	J
	Technetium-99	pCi/L	1.7E + 04		2.2E + 04	
	Tritium	pCi/mL	7.1E + 03		8.3E + 03	
HSB119A	Aluminum	µg/L	70		-	
	Technetium-99	pCi/L	1.0E + 03		NA	
	Tritium	pCi/mL	3.5E + 02		3.6E + 02	
	Zinc	µg/L	27		32	
HSB120A	Aluminum	µg/L	51		-	
HSB123A	Aluminum	µg/L	NA		140	
	pH	pH	NA		12	J
	Tin	µg/L	NA		27	
HSB141A	Aluminum	µg/L	2,500		2,800	
	pH	pH	12	J	12	J
	Tin	µg/L	30		25	
HSB144A	pH	pH	6.6	J	-	
	Technetium-99	pCi/L	1.6E + 03		1.1E + 03	
	Tritium	pCi/mL	5.6E + 02		4.5E + 02	

Note: This table presents the highest value for duplicate/replicate results.

^a - = analyzed but not above the final PDWS.

^b NA = not analyzed.

Table 2. Maximum Levels of Constituents Exceeding the SRS Flag 2 Criteria**Aquifer Zone IIB₂ (Water table)**

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 65	Aluminum	µg/L	65		- ^a	
	Tritium	pCi/mL	3.2E + 01		4.0E + 01	
HSB 65C	Aluminum	µg/L	67		-	
	Strontium-90	pCi/L	-		1.1E + 01	
	Tritium	pCi/mL	2.5E + 01		-	
HSB 66	Aluminum	µg/L	200		85	
	Tritium	pCi/mL	-		3.1E + 01	
HSB 67	Aluminum	µg/L	1,300		590	
	Gross alpha	pCi/L	2.1E + 01		2.1E + 01	
	Nitrate as nitrogen	µg/L	37,000		-	
	Nonvolatile beta	pCi/L	1.2E + 03		2.9E + 02	
	Strontium-89	pCi/L	4.3E + 02		-	
	Strontium-90	pCi/L	4.3E + 02		1.6E + 02	
	Technetium-99	pCi/L	4.0E + 03		3.5E + 03	
	Tritium	pCi/mL	1.9E + 03		1.3E + 03	
HSB 68	Aluminum	µg/L	3,600		NA ^b	
	Gross alpha	pCi/L	2.3E + 01		NA	
	Mercury	µg/L	2.2		NA	
	Nickel-63	pCi/L	8.8E + 01	C	NA	
	Nitrate as nitrogen	µg/L	38,000		NA	
	Nonvolatile beta	pCi/L	5.6E + 03		NA	
	Strontium-89	pCi/L	8.7E + 02		NA	
	Strontium-90	pCi/L	1.5E + 03		NA	
	Technetium-99	pCi/L	9.2E + 03		NA	
	Tritium	pCi/mL	5.2E + 03		NA	
HSB 69	Aluminum	µg/L	4,400		4,800	
	Cobalt-60	pCi/L	1.6E + 02		1.5E + 02	
	Gross alpha	pCi/L	1.9E + 01		3.3E + 01	
	Iodine-129	pCi/L	-		1.1E + 01	
	Nickel-63	pCi/L	1.6E + 02	C	1.5E + 02	C
	Nitrate as nitrogen	µg/L	86,000		18,000	
	Nonvolatile beta	pCi/L	4.5E + 03		4.9E + 03	
	Strontium-89	pCi/L	1.6E + 02		6.9E + 02	
	Strontium-90	pCi/L	2.1E + 03		1.8E + 03	
	Technetium-99	pCi/L	1.6E + 03		-	
	Tritium	pCi/mL	3.5E + 02		2.0E + 02	
HSB 70	Aluminum	µg/L	100		130	
	Copper	µg/L	1,500		-	
	Lead	µg/L	29		-	
	Tritium	pCi/mL	-		4.4E + 01	
HSB 71	Aluminum	µg/L	83		-	
	Tritium	pCi/mL	4.3E + 01		6.5E + 01	
HSB 83D	Aluminum	µg/L	99		56	
	Strontium-90	pCi/L	9.6E + 00		-	
	Technetium-99	pCi/L	2.0E + 03		1.4E + 03	
	Tritium	pCi/mL	7.1E + 02		6.0E + 02	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 84D	Aluminum	µg/L	480		380	
	Nonvolatile beta	pCi/L	3.8E+02		2.4E+02	
	Strontium-89	pCi/L	1.0E+02		8.6E+01	
	Strontium-90	pCi/L	5.7E+01		1.3E+02	
	Tritium	pCi/mL	4.2E+02		2.9E+02	
HSB 86D	Aluminum	µg/L	2,100		920	
	Gross alpha	pCi/L	2.3E+01		-	
	Iodine-129	pCi/L	5.7E+00		-	
	Nickel-63	pCi/L	5.4E+01	C	-	
	Nitrate as nitrogen	µg/L	20,000		13,000	
	Nonvolatile beta	pCi/L	9.7E+02		5.3E+02	
	Radium-226	pCi/L	-		2.3E+01	
	Strontium-89	pCi/L	2.4E+02		3.3E+01	
	Strontium-90	pCi/L	1.3E+02		2.7E+02	
	Technetium-99	pCi/L	5.4E+03		5.2E+03	
	Tritium	pCi/mL	3.0E+03		2.3E+03	
HSB100D	Strontium-90	pCi/L	9.2E+00		2.5E+01	
	Technetium-99	pCi/L	1.1E+03		1.7E+03	
	Tritium	pCi/mL	7.0E+02		1.2E+03	
HSB101D	Aluminum	µg/L	770		630	
	Arsenic	µg/L	76		100	
	Gross alpha	pCi/L	-		1.5E+01	
	Mercury	µg/L	4.0		5.6	
	Nitrate as nitrogen	µg/L	45,000		41,000	
	Strontium-90	pCi/L	7.9E+01		8.2E+00	
	Technetium-99	pCi/L	2.4E+04		2.1E+04	
	Tritium	pCi/mL	1.1E+04		9.9E+03	
	Vanadium	µg/L	360		430	
HSB102D	Aluminum	µg/L	13,000		NA	
	Gross alpha	pCi/L	1.7E+02		NA	
	Lead	µg/L	20		NA	
	Mercury	µg/L	3.9		NA	
	Nickel-63	pCi/L	7.6E+01	C	NA	
	Nitrate as nitrogen	µg/L	40,000		NA	
	Nonvolatile beta	pCi/L	4.6E+03		NA	
	Strontium-89	pCi/L	3.9E+02		NA	
	Strontium-90	pCi/L	1.6E+03		NA	
	Technetium-99	pCi/L	1.8E+04		NA	
	Tritium	pCi/mL	8.8E+03		NA	
	Uranium-233/234	pCi/L	5.4E+01		NA	
	Uranium-238	pCi/L	5.8E+01		NA	
HSB103D	Aluminum	µg/L	1,500		740	
	Gross alpha	pCi/L	2.4E+01		1.7E+01	
	Iodine-129	pCi/L	1.5E+01		1.3E+01	
	Nitrate as nitrogen	µg/L	19,000		23,000	
	Nonvolatile beta	pCi/L	7.3E+02		4.1E+02	
	Strontium-89	pCi/L	1.3E+02		2.8E+01	
	Strontium-90	pCi/L	2.7E+02		2.2E+02	
	Technetium-99	pCi/L	4.6E+03		2.6E+03	
	Tritium	pCi/mL	2.1E+03		1.5E+03	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB104D	Aluminum	µg/L	4,700		3,900	
	Gross alpha	pCi/L	4.7E+01		1.8E+01	
	Iodine-129	pCi/L	3.1E+00		2.1E+00	
	Nitrate as nitrogen	µg/L	15,000		15,000	
	Nonvolatile beta	pCi/L	2.2E+03		2.0E+03	
	Strontium-89	pCi/L	1.2E+03		2.4E+02	
	Strontium-90	pCi/L	5.3E+02		8.9E+02	
	Technetium-99	pCi/L	2.4E+03		2.8E+03	
HSB105D	Tritium	pCi/mL	1.0E+03		8.8E+02	
	Aluminum	µg/L	5,100		5,300	
	Gross alpha	pCi/L	2.8E+01		3.5E+03	
	Iodine-129	pCi/L	1.6E+01		5.8E+00	
	Mercury	µg/L	4.1		3.7	
	Nitrate as nitrogen	µg/L	30,000		33,000	
	Nonvolatile beta	pCi/L	3.1E+03		1.4E+03	
	Strontium-89	pCi/L	2.5E+02		5.0E+02	
HSB106D	Strontium-90	pCi/L	9.6E+02		5.1E+02	
	Technetium-99	pCi/L	1.2E+04		7.0E+03	
	Tritium	pCi/mL	4.9E+03		3.0E+03	
	Aluminum	µg/L	560		430	
	Nonvolatile beta	pCi/L	2.9E+02		2.0E+02	
HSB107D	Radium-228	pCi/L	5.6E+01	Y	NA	
	Strontium-90	pCi/L	1.4E+02	Y	NA	
	Tritium	pCi/mL	7.3E+02		4.9E+02	
	Aluminum	µg/L	110		110	
HSB108D	Gross alpha	pCi/L	-		4.1E+03	
	Iodine-129	pCi/L	5.9E+00		2.5E+00	
	Mercury	µg/L	3.0		3.2	
	Nitrate as nitrogen	µg/L	24,000		25,000	
	Nonvolatile beta	pCi/L	2.6E+03		1.7E+03	
	Strontium-89	pCi/L	6.7E+02		1.8E+02	
	Strontium-90	pCi/L	6.3E+02		1.0E+03	
	Technetium-99	pCi/L	9.1E+03		5.6E+03	
	Tritium	pCi/mL	3.1E+03		2.4E+03	
	Aluminum	µg/L	1,600		NA	
HSB109D	Gross alpha	pCi/L	3.4E+01		NA	
	Iodine-129	pCi/L	7.6E+00		NA	
	Mercury	µg/L	3.5		NA	
	Nickel-63	pCi/L	8.5E+01	C	NA	
	Nitrate as nitrogen	µg/L	20,000		NA	
	Nonvolatile beta	pCi/L	3.2E+03		NA	
	Strontium-89	pCi/L	8.9E+02		NA	
	Strontium-90	pCi/L	1.0E+03		NA	
	Technetium-99	pCi/L	3.8E+03		NA	
	Tritium	pCi/mL	2.0E+03		NA	
HSB109D	Aluminum	µg/L	810		670	
	Iodine-129	pCi/L	4.0E+00		-	
	Nonvolatile beta	pCi/L	9.6E+02		8.3E+02	
	Strontium-89	pCi/L	3.5E+01		5.7E+01	
	Strontium-90	pCi/L	6.7E+02		3.7E+02	
	Technetium-99	pCi/L	-		1.7E+03	
	Tritium	pCi/mL	2.0E+02		2.5E+02	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB110D	Aluminum	µg/L	120		210	
	Nonvolatile beta	pCi/L	5.8E+01		7.4E+01	
	Strontium-89	pCi/L	2.4E+01		-	
	Strontium-90	pCi/L	1.3E+01		4.0E+01	
	Tritium	pCi/mL	2.3E+01		2.4E+01	
HSB111D	Aluminum	µg/L	280		190	
	Iodine-129	pCi/L	6.7E+00		-	
	Nitrate as nitrogen	µg/L	59,000		51,000	
	Nonvolatile beta	pCi/L	6.9E+01		1.0E+02	
	Technetium-99	pCi/L	2.0E+04		2.0E+04	
	Tritium	pCi/mL	1.1E+04		1.0E+04	
HSB111E	Aluminum	µg/L	420		340	
	Nonvolatile beta	pCi/L	2.4E+02		1.6E+02	
	Strontium-90	pCi/L	1.1E+02		8.5E+01	
	Technetium-99	pCi/L	6.6E+03		8.1E+03	
	Tritium	pCi/mL	2.9E+03		4.3E+03	
HSB112D	Aluminum	µg/L	90		83	
	Iodine-129	pCi/L	9.7E+00		7.0E+00	
	Nitrate as nitrogen	µg/L	46,000		38,000	
	Nonvolatile beta	pCi/L	5.3E+01		-	
	Technetium-99	pCi/L	2.5E+04		2.1E+04	
	Tritium	pCi/mL	1.2E+04		1.0E+04	
HSB112E	Aluminum	µg/L	330		240	
	Iodine-129	pCi/L	5.5E+00		-	
	Nitrate as nitrogen	µg/L	34,000		21,000	
	Nonvolatile beta	pCi/L	2.0E+02		1.4E+02	
	Strontium-90	pCi/L	1.4E+02		8.5E+01	
	Technetium-99	pCi/L	1.1E+04		7.7E+03	
	Tritium	pCi/mL	6.5E+03		3.8E+03	
HSB113D	Aluminum	µg/L	7,400		8,200	
	Cobalt-60	pCi/L	1.5E+02		1.6E+02	
	Gross alpha	pCi/L	4.0E+01		7.3E+01	
	Iodine-129	pCi/L	2.7E+01		3.1E+01	
	Nickel-63	pCi/L	1.5E+02	C	1.6E+02	C
	Nitrate as nitrogen	µg/L	34,000		38,000	
	Nonvolatile beta	pCi/L	3.1E+03		2.9E+03	
	Strontium-89	pCi/L	2.5E+02		1.6E+02	
	Strontium-90	pCi/L	1.4E+03		1.1E+03	
	Technetium-99	pCi/L	1.2E+04		1.6E+04	
	Tritium	pCi/mL	5.2E+03		7.8E+03	
HSB114D	Aluminum	µg/L	5,900		5,700	
	Cobalt-60	pCi/L	1.2E+02		1.2E+02	
	Gross alpha	pCi/L	5.0E+01		6.3E+01	
	Iodine-129	pCi/L	1.1E+02		4.8E+01	
	Nickel-63	pCi/L	1.2E+02	C	1.2E+02	C
	Nitrate as nitrogen	µg/L	27,000		35,000	
	Nonvolatile beta	pCi/L	2.5E+03		2.2E+03	
	Radium-226	pCi/L	-		3.0E+01	
	Strontium-89	pCi/L	-		1.8E+02	
	Strontium-90	pCi/L	8.7E+02		9.1E+02	
	Technetium-99	pCi/L	7.2E+03		2.0E+04	
	Tritium	pCi/mL	3.1E+03		9.3E+03	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB115D	Aluminum	µg/L	4,800		4,000	
	Cobalt	µg/L	52		49	
	Cobalt-60	pCi/L	-		1.5E+02	
	Gross alpha	pCi/L	5.6E+01		4.7E+01	
	Iodine-129	pCi/L	4.7E+00		2.2E+01	
	Lead	µg/L	43		27	
	Nickel-63	pCi/L	9.3E+01	C	1.5E+02	C
	Nitrate as nitrogen	µg/L	34,000		37,000	
	Nonvolatile beta	pCi/L	3.1E+03		2.2E+03	
	Strontium-89	pCi/L	-		2.0E+02	
	Strontium-90	pCi/L	9.9E+02		1.2E+03	
	Technetium-99	pCi/L	1.8E+04		2.5E+04	
	Tritium	pCi/mL	7.4E+03		1.0E+04	
HSB116D	Aluminum	µg/L	2,200		NA	
	Cobalt-60	pCi/L	2.1E+02		NA	
	Gross alpha	pCi/L	2.2E+01		NA	
	Iodine-129	pCi/L	1.2E+01		NA	
	Nickel-63	pCi/L	2.1E+02	C	NA	
	Nitrate as nitrogen	µg/L	34,000		NA	
	Nonvolatile beta	pCi/L	9.2E+03		NA	
	Radium-226	pCi/L	2.1E+01		NA	
	Strontium-89	pCi/L	4.0E+02		NA	
	Strontium-90	pCi/L	2.5E+03		NA	
	Technetium-99	pCi/L	2.7E+03		NA	
	Tritium	pCi/mL	1.5E+03		NA	
HSB117D	Tritium	pCi/mL	8.1E+01		6.9E+01	
HSB125D	Aluminum	µg/L	76		88	
	Iodine-129	pCi/L	2.1E+00		4.1E+00	
	Mercury	µg/L	3.3		4.3	
	Nitrate as nitrogen	µg/L	-		40,000	
	Strontium-90	pCi/L	1.7E+01		1.6E+01	
	Technetium-99	pCi/L	6.2E+03		9.3E+03	
	Tritium	pCi/mL	1.8E+03		3.9E+03	
HSB126D	Aluminum	µg/L	400		420	
	Iodine-129	pCi/L	3.0E+00		1.1E+01	
	Mercury	µg/L	6.2		6.2	
	Nitrate as nitrogen	µg/L	55,000		52,000	
	Technetium-99	pCi/L	1.2E+04		7.5E+03	
	Tritium	pCi/mL	4.7E+03		4.6E+03	
HSB127D	Aluminum	µg/L	160		97	
	Iodine-129	pCi/L	-		6.7E+00	
	Mercury	µg/L	4.0		3.9	
	Nitrate as nitrogen	µg/L	28,000		22,000	
	Nonvolatile beta	pCi/L	-		6.7E+01	
	Strontium-90	pCi/L	1.9E+01		1.5E+01	
	Technetium-99	pCi/L	5.1E+03		1.4E+04	
	Tritium	pCi/mL	6.7E+03		4.9E+03	
HSB129D	Aluminum	µg/L	780		150	
	Iodine-129	pCi/L	5.0E+00		2.2E+00	
	Nitrate as nitrogen	µg/L	33,000		35,000	
	Nonvolatile beta	pCi/L	5.9E+01		6.5E+01	
	Technetium-99	pCi/L	1.1E+04		1.1E+04	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
	Tritium	pCi/mL	4.4E + 03		4.4E + 03	
HSB131D	Aluminum	µg/L	240		-	
	Tritium	pCi/mL	2.0E + 01		-	
HSB132D	Aluminum	µg/L	72		71	
	Tritium	pCi/mL	-		2.7E + 01	
HSB133D	Gross alpha	pCi/L	-		2.3E + 01	
	Strontium-90	pCi/L	-		1.7E + 01	
	Tritium	pCi/mL	2.8E + 01		3.3E + 01	
HSB134D	Aluminum	µg/L	490		570	
	Nitrate as nitrogen	µg/L	14,000		-	
	Nonvolatile beta	pCi/L	6.9E + 02		5.8E + 02	
	Strontium-89	pCi/L	-		2.4E + 01	
	Strontium-90	pCi/L	4.7E + 02		2.2E + 02	
	Technetium-99	pCi/L	2.8E + 03		1.9E + 03	
	Tritium	pCi/mL	1.1E + 03		3.5E + 02	
HSB135D	Aluminum	µg/L	-		53	
	Strontium-90	pCi/L	9.2E + 00		-	
	Tritium	pCi/mL	9.2E + 01		1.4E + 02	
HSB136D	Aluminum	µg/L	3,300		4,500	
	Cobalt-60	pCi/L	1.5E + 02		1.3E + 02	
	Gross alpha	pCi/L	4.9E + 01		7.4E + 01	
	Iodine-129	pCi/L	6.8E + 00		3.3E + 00	
	Nickel-63	pCi/L	1.5E + 02	C	1.3E + 02	C
	Nitrate as nitrogen	µg/L	19,000		24,000	
	Nonvolatile beta	pCi/L	2.9E + 03		2.5E + 03	
	Radium-226	pCi/L	4.8E + 01		2.4E + 01	
	Strontium-89	pCi/L	3.7E + 01		1.4E + 02	
	Strontium-90	pCi/L	7.0E + 02		1.1E + 03	
	Technetium-99	pCi/L	6.7E + 03		7.8E + 03	
	Tritium	pCi/mL	2.5E + 03		3.5E + 03	
HSB137D	Aluminum	µg/L	79		78	
	Nitrate as nitrogen	µg/L	11,000		-	
	Strontium-90	pCi/L	1.7E + 01		1.4E + 01	
	Technetium-99	pCi/L	1.2E + 04		3.9E + 03	
	Tritium	pCi/mL	2.4E + 03		1.6E + 03	
HSB138D	Aluminum	µg/L	-		59	
	Tritium	pCi/mL	5.6E + 01		2.6E + 01	
HSB139D	Tritium	pCi/mL	1.8E + 01		4.8E + 01	
HSB141D	Aluminum	µg/L	830		170	
	Lead	µg/L	28		-	
	Technetium-99	pCi/L	-		2.4E + 04	
HSB142D	Aluminum	µg/L	1,500		260	
	Tritium	pCi/mL	3.6E + 02		3.6E + 02	
HSB145D	Aluminum	µg/L	1,000		1,100	
	Gross alpha	pCi/L	3.9E + 01		3.8E + 01	
	Iodine-129	pCi/L	7.8E + 00		1.1E + 01	
	Mercury	µg/L	3.0		3.3	

Aquifer Zone IIB₂ (Water table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
	Nitrate as nitrogen	µg/L	45,000		41,000	
	Nonvolatile beta	pCi/L	4.0E + 02		3.6E + 02	
	Strontium-89	pCi/L	-		4.8E + 01	
	Strontium-90	pCi/L	1.5E + 02		1.6E + 02	
	Technetium-99	pCi/L	1.6E + 04		1.7E + 04	
	Tritium	pCi/mL	7.0E + 03		8.3E + 03	
HSB146D	Aluminum	µg/L	200		2,000	
	Lead	µg/L	-		34	
	Technetium-99	pCi/L	-		1.6E + 04	
HSB147D	Aluminum	µg/L	1,000		740	
	Lead	µg/L	16		25	
HSB148D	Aluminum	µg/L	450		370	
HSB149D	Aluminum	µg/L	70		57	
	Tritium	pCi/mL	2.1E + 01		2.5E + 01	
HSB150D	Aluminum	µg/L	770		1,200	
	Tritium	pCi/mL	-		4.4E + 01	
HSB151D	Aluminum	µg/L	59		-	
	Tritium	pCi/mL	1.1E + 02		1.7E + 02	
HSB152D	Aluminum	µg/L	2,300		1,100	
	Lead	µg/L	150		39	
	Tritium	pCi/mL	4.0E + 01		5.7E + 01	

Aquifer Zone IIB₁ (Barnwell/McBean, upper portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 68C	Aluminum	µg/L	77		-	
	Copper	µg/L	2,200		-	
	Lead	µg/L	16		-	
	Nitrate as nitrogen	µg/L	10,000		10,000	
	Technetium-99	pCi/L	4.3E + 03		9.5E + 03	
	Tritium	pCi/mL	2.9E + 03		3.2E + 03	
HSB 70C	Aluminum	µg/L	-		120	
	Nitrate as nitrogen	µg/L	31,000		30,000	
	Nonvolatile beta	pCi/L	1.2E + 02		6.1E + 01	
	pH	pH	-		11	J
	Technetium-99	pCi/L	7.2E + 03		9.8E + 03	
	Tritium	pCi/mL	3.9E + 03		3.3E + 03	
HSB 71C	Aluminum	µg/L	920		3,900	
	Gross alpha	pCi/L	-		2.0E + 01	
	Iodine-129	pCi/L	4.3E + 00		4.7E + 00	
	Nitrate as nitrogen	µg/L	51,000		44,000	
	Nonvolatile beta	pCi/L	1.4E + 02		1.3E + 02	
	pH	pH	11	J	10	J
	Technetium-99	pCi/L	1.7E + 04		1.6E + 04	
	Tritium	pCi/mL	6.7E + 03		5.9E + 03	

Aquifer Zone IIB, (Barnwell/McBean, upper portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 84C	Aluminum	µg/L	-		130	
	Lead	µg/L	-		18	
	Tritium	pCi/mL	4.0E + 02		4.0E + 02	
HSB 86C	Aluminum	µg/L	940		1,300	
	Cadmium	µg/L	5.5		-	
	Gross alpha	pCi/L	2.5E + 01		4.8E + 01	
	Iodine-129	pCi/L	1.2E + 01		1.1E + 01	
	Nickel-63	pCi/L	5.8E + 01	C	5.9E + 01	C
	Nitrate as nitrogen	µg/L	47,000		46,000	
	Nonvolatile beta	pCi/L	7.5E + 02		1.2E + 03	
	Strontium-89	pCi/L	1.7E + 02		1.0E + 02	
	Strontium-90	pCi/L	1.1E + 02		7.0E + 02	
	Technetium-99	pCi/L	3.1E + 04		3.6E + 04	
	Tritium	pCi/mL	1.6E + 04		1.6E + 04	
HSB102C	Aluminum	µg/L	-		56	
	Nitrate as nitrogen	µg/L	16,000		16,000	
	Tritium	pCi/mL	1.8E + 02		2.0E + 02	
HSB103C	Aluminum	µg/L	200		180	
	Nitrate as nitrogen	µg/L	23,000		23,000	
	Technetium-99	pCi/L	1.4E + 03		1.1E + 03	
	Tritium	pCi/mL	7.1E + 02		6.6E + 02	
HSB104C	Aluminum	µg/L	420		450	
	pH	pH	10	J	10	J
	Strontium-90	pCi/L	-		8.7E + 00	
	Tritium	pCi/mL	2.7E + 02		2.6E + 02	
HSB105C	Tritium	pCi/mL	9.1E + 01		9.6E + 01	
HSB106C	Tritium	pCi/mL	3.1E + 02		3.0E + 02	
HSB107C	Technetium-99	pCi/L	-		2.2E + 03	
	Tritium	pCi/mL	4.0E + 02		3.4E + 02	
HSB108C	Technetium-99	pCi/L	-		1.2E + 03	
	Tritium	pCi/mL	3.0E + 02		2.8E + 02	
HSB109C	Tritium	pCi/mL	6.4E + 01		6.5E + 01	
HSB110C	Aluminum	µg/L	53		-	
	Strontium-90	pCi/L	-		2.9E + 01	
	Tritium	pCi/mL	2.7E + 01		2.5E + 01	
HSB111C	Aluminum	µg/L	190		180	
	Nitrate as nitrogen	µg/L	20,000		21,000	
	Technetium-99	pCi/L	5.8E + 03		5.0E + 03	
	Tritium	pCi/mL	2.8E + 03		2.8E + 03	
HSB112C	Aluminum	µg/L	120		95	
	Nitrate as nitrogen	µg/L	13,000		14,000	
	Technetium-99	pCi/L	4.0E + 03		NA	
	Tritium	pCi/mL	1.8E + 03		1.7E + 03	

Aquifer Zone IIB, (Barnwell/McBean, upper portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB113C	Aluminum	$\mu\text{g/L}$	160		170	
	Nitrate as nitrogen	$\mu\text{g/L}$	16,000		15,000	
	Technetium-99	pCi/L	$3.1\text{E}+03$		$3.8\text{E}+03$	
	Tritium	pCi/mL	$1.5\text{E}+03$		$1.5\text{E}+03$	
HSB114C	Aluminum	$\mu\text{g/L}$	670		510	
	Gross alpha	pCi/L	$3.0\text{E}+01$		$3.3\text{E}+01$	
	Iodine-129	pCi/L	$6.1\text{E}+00$		$4.0\text{E}+00$	
	Nitrate as nitrogen	$\mu\text{g/L}$	63,000		57,000	
	Nonvolatile beta	pCi/L	$1.8\text{E}+02$		$1.3\text{E}+02$	
	Technetium-99	pCi/L	$2.7\text{E}+04$		$2.3\text{E}+04$	
	Tritium	pCi/mL	$1.2\text{E}+04$		$1.2\text{E}+04$	
HSB115C	Aluminum	$\mu\text{g/L}$	240		240	
	Gross alpha	pCi/L	$1.6\text{E}+01$		$1.8\text{E}+01$	
	Iodine-129	pCi/L	$7.9\text{E}+00$		$9.1\text{E}+00$	
	Nitrate as nitrogen	$\mu\text{g/L}$	48,000		44,000	
	Nonvolatile beta	pCi/L	$1.1\text{E}+02$		$8.2\text{E}+01$	
	Strontium-90	pCi/L	$1.1\text{E}+01$		$8.5\text{E}+00$	
	Technetium-99	pCi/L	$2.8\text{E}+04$		$3.1\text{E}+04$	
	Tritium	pCi/mL	$1.3\text{E}+04$		$1.3\text{E}+04$	
HSB116C	Aluminum	$\mu\text{g/L}$	170		160	
	Cobalt	$\mu\text{g/L}$	64		53	
	Gross alpha	pCi/L	-		$1.9\text{E}+01$	
	Iodine-129	pCi/L	$3.4\text{E}+00$		$1.2\text{E}+01$	
	Nitrate as nitrogen	$\mu\text{g/L}$	61,000		52,000	
	Nonvolatile beta	pCi/L	$6.8\text{E}+01$		$7.7\text{E}+01$	
	Technetium-99	pCi/L	$3.2\text{E}+04$		$3.1\text{E}+04$	
	Tritium	pCi/mL	$1.3\text{E}+04$		$1.2\text{E}+04$	
HSB117C	Aluminum	$\mu\text{g/L}$	430		450	
	Iodine-129	pCi/L	$2.4\text{E}+00$		$4.9\text{E}+00$	
	Nitrate as nitrogen	$\mu\text{g/L}$	45,000		44,000	
	Nonvolatile beta	pCi/L	$7.9\text{E}+01$		-	
	Technetium-99	pCi/L	$1.6\text{E}+04$		$2.1\text{E}+04$	
	Tritium	pCi/mL	$6.6\text{E}+03$		$7.1\text{E}+03$	
HSB126C	Nitrate as nitrogen	$\mu\text{g/L}$	22,000		-	
	Tritium	pCi/mL	$2.9\text{E}+02$		$3.0\text{E}+02$	
HSB127C	Technetium-99	pCi/L	$3.0\text{E}+03$		$2.3\text{E}+03$	
	Tritium	pCi/mL	$1.0\text{E}+03$		$9.5\text{E}+02$	
HSB129C	Aluminum	$\mu\text{g/L}$	99		160	
	Nitrate as nitrogen	$\mu\text{g/L}$	18,000		13,000	
	Technetium-99	pCi/L	$1.0\text{E}+04$		$3.6\text{E}+03$	
	Trichloroethylene	$\mu\text{g/L}$	-		8.6	
	Tritium	pCi/mL	$1.9\text{E}+03$		$1.6\text{E}+03$	
HSB131C	Tritium	pCi/mL	$1.6\text{E}+02$		$1.7\text{E}+02$	
HSB132C	Aluminum	$\mu\text{g/L}$	130		84	
	Strontium-89	pCi/L	-		$4.1\text{E}+01$	
	Tritium	pCi/mL	$2.1\text{E}+01$		-	

Aquifer Zone IIB, (Barnwell/McBean, upper portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB134C	Aluminum	µg/L	-		53	
	Tritium	pCi/mL	3.7E + 01		3.9E + 01	
HSB135C	Aluminum	µg/L	84		110	
	Tritium	pCi/mL	6.7E + 01		5.3E + 01	
HSB136C	Aluminum	µg/L	130		110	
	Iodine-129	pCi/L	4.4E + 00		3.4E + 00	
	Nitrate as nitrogen	µg/L	41,000		38,000	
	Nonvolatile beta	pCi/L	1.0E + 02		9.2E + 01	
	pH	pH	-		10	J
	Technetium-99	pCi/L	2.0E + 04		1.8E + 04	
	Tritium	pCi/mL	8.2E + 03		7.8E + 03	
HSB137C	Aluminum	µg/L	79		91	
	Iodine-129	pCi/L	6.2E + 00		8.4E + 00	
	Nitrate as nitrogen	µg/L	64,000		58,000	
	Nonvolatile beta	pCi/L	1.2E + 02		1.2E + 02	
	Technetium-99	pCi/L	2.7E + 04		2.5E + 04	
	Tritium	pCi/mL	1.1E + 04		1.1E + 04	
HSB139C	Aluminum	µg/L	180		140	
	Iodine-129	pCi/L	-		2.9E + 00	
	Nitrate as nitrogen	µg/L	52,000		46,000	
	Technetium-99	pCi/L	6.8E + 03		6.4E + 03	
	Tritium	pCi/mL	2.8E + 03		2.7E + 03	
HSB141C	Aluminum	µg/L	1,900		NA	
	pH	pH	11	J	NA	
HSB145C	Aluminum	µg/L	1,100		280	
	Nitrate as nitrogen	µg/L	34,000		34,000	
	Nonvolatile beta	pCi/L	5.6E + 01		-	
	Strontium-90	pCi/L	8.0E + 00		1.4E + 01	
	Technetium-99	pCi/L	4.2E + 03		3.5E + 03	
	Tin	µg/L	21		-	
	Tritium	pCi/mL	1.7E + 03		1.7E + 03	
HSB146C	Aluminum	µg/L	94		240	
HSB148C	Aluminum	µg/L	700		670	
	pH	pH	11	J	11	J
HSB151C	Aluminum	µg/L	110		110	
	Technetium-99	pCi/L	3.8E + 03		3.0E + 03	
	Tritium	pCi/mL	1.6E + 03		1.5E + 03	
HSB152C	Aluminum	µg/L	86		88	
	Nitrate as nitrogen	µg/L	-		11,000	
	Technetium-99	pCi/L	3.0E + 03		4.3E + 03	
	Tritium	pCi/mL	1.2E + 03		1.1E + 03	

Aquifer Zone IIB₁ (Barnwell/McBean, lower portion)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 65B	Strontium-89	pCi/L	3.4E + 01	4	-	
HSB 68B	Aluminum	µg/L	62		100	
	Tritium	pCi/mL	3.5E + 01		2.4E + 02	
HSB 83B	Aluminum	µg/L	60		75	
HSB 84B	Aluminum	µg/L	73		360	
	Tritium	pCi/mL	6.6E + 01		1.4E + 02	
HSB 85B	Aluminum	µg/L	1,800		1,400	
	pH	pH	11	J	11	J

Aquifer Unit IIA (Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>Mod</u>	<u>2Q93</u>	<u>Mod</u>
HSB 68A	Aluminum	µg/L	75		-	
HSB 84A	Nonvolatile beta	pCi/L	1.2E + 02		6.9E + 01	
	Strontium-90	pCi/L	3.0E + 01		4.2E + 01	
	Tritium	pCi/mL	2.7E + 01		-	
HSB118A	Nitrate as nitrogen	µg/L	24,000		62,000	
	Technetium-99	pCi/L	1.7E + 04		2.2E + 04	
	Tritium	pCi/mL	7.1E + 03		8.3E + 03	
HSB119A	Aluminum	µg/L	70		-	
	Technetium-99	pCi/L	1.0E + 03		NA	
	Tritium	pCi/mL	3.5E + 02		3.6E + 02	
HSB120A	Aluminum	µg/L	51		-	
HSB123A	Aluminum	µg/L	NA		140	
	pH	pH	NA		12	J
	Tin	µg/L	NA		27	
HSB141A	Aluminum	µg/L	2,500		2,800	
	pH	pH	12	J	12	J
	Tin	µg/L	30		25	
HSB144A	Technetium-99	pCi/L	1.6E + 03		1.1E + 03	
	Tritium	pCi/mL	5.6E + 02		4.5E + 02	

Note: This table presents the highest value for duplicate/replicate results.

^a - = analyzed but not above the Flag 2 criterion.

^b NA = not analyzed.

Table 3. Groundwater Monitoring Results for Individual Wells**WELL HSB 65**

<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>
N72425.6 E58432.0	33.281296 °N 81.653622 °W	242.4-212.4 ft msl	272 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/04/93

04/08/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	240	ft msl
pH	4.6	5	pH
Sp. conductance	41	39	µS/cm
Water temperature	19.1	19.9	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	8.7	5.0	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	9.9				0	GE	14				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	9.2				1	GE	7.3				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	53				0	GE	32				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	8.3				0	GE	3.3				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	65		■		2	GE	48				1	GE	µg/L
Nitrate as nitrogen	2,400				0	GE	1,700				0	GE	µg/L
pH	5.0	J	■	●	0	GE	5.1	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	2.6				1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 65 (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	8.3E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	3.2E+01		■		2	GE	4.0E+01		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 65A

<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>
N72436.2 E58436.0	33.281326 °N 81.653633 °W	73.2-62.5 ft msl	273.6 ft msl	4" PVC	S	L. Congaree (IIA)

SAMPLE DATE 01/04/93

04/08/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	170	180	ft msl
pH	7.3	8	pH
Sp. conductance	213	225	µS/cm
Water temperature	19.8	20	°C
Alkalinity as CaCO ₃	73	56	mg/L
Volume purged	2.5	3.7	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	55				0	GE	56				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	6.2				0	GE	6.8				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	2.1				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	27				1	GE	55				2	GE	µg/L
Nitrate as nitrogen	<50				0	GE	590				0	GE	µg/L
pH	7.3	J		●	0	GE	8.0	J		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 65A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	6.4E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	2.3E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.1E+01				1	GE	7.0E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 65B

<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>
N72445.6 E58439.4	33.281352 °N 81.653642 °W	133.3-123.3 ft msl	273.7 ft msl	4" PVC	S	McBean (IIB ₁)

SAMPLE DATE 01/04/93

04/08/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft msl
pH	7.7	7.9	pH
Sp. conductance	206	211	µS/cm
Water temperature	19.4	19.3	°C
Alkalinity as CaCO ₃	79	67	mg/L
Volume purged	3.8	3.9	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	18				0	WA	18				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	5.5	J3			0	WA	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	3.1				0	GE	3.8				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<3.0				0	WA	<8.0				0	GE	µg/L
Zinc	8.3	J3			0	WA	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	33				1	GE	39				1	GE	µg/L
Nitrate as nitrogen	42				0	WA	<50				0	GE	µg/L
pH	7.9	J		●	0	GE	8.0	J		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 65B (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	<5.0E-01				0	TM	<2.0E+00				0	GE	pCi/L
Nonvolatile beta	<6.0E-01				0	TM	<2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	CN	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Radium-226	1.3E+01				1	CN	<1.0E+00				0	GP	pCi/L
Radium-228	2.2E+00				0	GP	2.8E+00				0	GP	pCi/L
Strontium-89	3.4E+01 4				2	CN	<2.0E+00				0	GP	pCi/L
Strontium-90	<2.0E+00				0	CN	<2.0E+00				0	GP	pCi/L
Technetium-99	<3.0E+02				0	CN	<3.0E+02				0	GP	pCi/L
Thorium-228	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	<4.5E-01				0	TM	<7.0E-01				0	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 65C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72439.6 E58447.1	33.281351 °N 81.65361 °W	218.6-207.8 ft msl	273.6 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/04/93

04/08/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	240	ft msl
pH	4.9	5	pH
Sp. conductance	62	50	µS/cm
Water temperature	19.5	19.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	3.8	3.7	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	8.1				0	GE	6.7				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050	J6			0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	6.9				0	GE	5.3				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	< 2.0				0	GE	< 2.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	11				0	GE	8.9				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	67		■		2	GE	27				1	GE	µg/L
Nitrate as nitrogen	4,100				0	GE	2,900				0	GE	µg/L
pH	5.1	J	■	●	0	GE	5.3	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0				0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 65C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	2.9E+00				0	GP	pCi/L
Strontium-89	2.7E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	1.1E+01				2	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	1.4E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.5E+01				2	GE	1.1E+01				1	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 66

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72429.2 E56928.3	33.27885 °N 81.657589 °W	228.1-198.1 ft msl	280.2 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 03/21/93

06/10/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	5.2	5.1	pH
Sp. conductance	32	34	µS/cm
Water temperature	19.1	19.8	°C
Alkalinity as CaCO ₃	0	1	mg/L
Volume purged	14	11	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	3.9				0	GE	3.5				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	5.2				0	GE	3.6				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050	J6		•	0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	22				0	GE	35				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.3				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	17				0	GE	23				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	200		■		2	GE	85		■		2	GE	µg/L
Nitrate as nitrogen	1,600				0	GE	4,200				0	GE	µg/L
pH	5.3	J	■	•	0	GE	5.5	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.1				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 66 (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	4.2E+00				0	GE	4.1E+00				0	GE	pCi/L
Nonvolatile beta	1.4E+01				0	GE	5.5E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	CN	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Radium-228	2.2E+00				0	GP	1.8E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	CN	<2.0E+00				0	GP	pCi/L
Strontium-90	<2.0E+00				0	CN	<2.0E+00				0	GP	pCi/L
Technetium-99	<3.0E+02				0	CN	<3.0E+02				0	GP	pCi/L
Thorium-228	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-230	2.1E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.3E+01				1	GE	3.1E+01				2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL HSB 67

<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>
N71505.0 E58424.3	33.279247 °N 81.651855 °W	230.7-200.7 ft mal	237.8 ft mal	4" PVC	V	Water table (IIB ₂)

<u>SAMPLE DATE</u>	<u>01/03/93</u>	<u>04/13/93</u>

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft mal
pH	4.1	4.3	pH
Sp. conductance	97	98	µS/cm
Water temperature	20.3	19.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	5.6	2.4	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	29				0	GE	17				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	1.7				1	GE	1.6				1	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	3.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	3.7				0	GE	8.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	1,300		■		2	GE	590		■		2	GE	µg/L
Nitrate as nitrogen	37,000		■		2	GE	37,100		■		1	GE	µg/L
pH	4.2	J	■	●	0	GE	4.6	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 67 (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	2.1E+01		■		2	GE	2.1E+01		■		2	GE	pCi/L
Nonvolatile beta	1.2E+03		■		2	GE	2.9E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	1.2E+00				0	GP	pCi/L
Radium-228	6.2E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	4.3E+02	■			2	GP	1.2E+01				1	GP	pCi/L
Strontium-90	4.3E+02	■			2	GP	1.6E+02	■			2	GP	pCi/L
Technetium-99	4.0E+03	■			2	GP	3.5E+03	■			2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.9E+03	■			2	GE	1.3E+03	■			2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 68

<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>
N71528.0 E56901.0	33.276813 °N 81.655911 °W	243.3-213.3 ft msl	250.1 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/03/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220		ft msl
pH	4		pH
Sp. conductance	351		µS/cm
Water temperature	20.4		°C
Alkalinity as CaCO ₃	0		mg/L
Volume purged	16		well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE							µg/L
Barium	120				0	GE							µg/L
Cadmium	<2.0				0	GE							µg/L
Chromium	<4.0				0	GE							µg/L
Lead	<3.0				0	GE							µg/L
Lindane	<0.0050				0	GE							µg/L
Mercury	2.2		■		2	GE							µg/L
Selenium	<2.0				0	GE							µg/L
Silver	<2.0				0	GE							µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE							µg/L
Benzene	<1.0				0	GE							µg/L
Cobalt	13				0	GE							µg/L
Copper	<4.0				0	GE							µg/L
Cyanide	<5.0				0	GE							µg/L
Nickel	28				0	GE							µg/L
Tin	4.2				0	GE							µg/L
Trichloroethylene	<1.0				0	GE							µg/L
Trichlorofluoromethane	<1.0				0	GE							µg/L
Vanadium	<8.0				0	GE							µg/L
Zinc	56		■		0	GE							µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	3,600		■		2	GE							µg/L
Nitrate as nitrogen	38,000		■		2	GE							µg/L
pH	3.8	J	■	●	1	GE							pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													µg/L
Methylene chloride	<1.0				0	GE							µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 68 (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	2.3E+01		■		2	GE							pCi/L
Nonvolatile beta	5.6E+03		■		2	GE							pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	<1.0E+00				0	GP							pCi/L
Cobalt-60	8.8E+01				1	GP							pCi/L
Curium-242	<1.0E+00				0	GP							pCi/L
Curium-243/244	<1.0E+00				0	GP							pCi/L
Curium-245/246	<1.0E+00				0	GP							pCi/L
Iodine-129	<2.0E+00				0	GP							pCi/L
Plutonium-238	<1.0E+00				0	GP							pCi/L
Plutonium-239/240	<1.0E+00				0	GP							pCi/L
Radium-226	1.1E+00				0	GP							pCi/L
Radium-228	7.8E+00				0	GP							pCi/L
Strontium-89	8.7E+02		■		2	GP							pCi/L
Strontium-90	1.5E+03		■		2	GP							pCi/L
Technetium-99	9.2E+03		■		2	GP							pCi/L
Thorium-228	<1.0E+00				0	GP							pCi/L
Thorium-230	<1.0E+00				0	GP							pCi/L
Thorium-232	<1.0E+00				0	GP							pCi/L
Thorium-234													
Tritium	5.2E+03		■		2	GE							pCi/mL
Uranium-233/234	<1.0E+00				0	GP							pCi/L
Uranium-235	<1.0E+00				0	GP							pCi/L
Uranium-238	<1.0E+00				0	GP							pCi/L

Calculated Radionuclides

<u>Parameter</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	<3.0E-03	C			0						0		pCi/L
Nickel-63	8.8E+01	C	■		2						0		pCi/L
Plutonium-241	<4.0E+00	C			0						0		pCi/L
Plutonium-242	<2.0E-05	C			0						0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 68A

<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>
N71526.9 E56892.1	33.276796 °N 81.655932 °W	58.0-47.5 ft msl	249.4 ft msl	4" PVC	S	L. Congaree (IIA)

SAMPLE DATE 01/03/93

04/14/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	170	170	ft msl
pH	6.8	6.8	pH
Sp. conductance	137	143	µS/cm
Water temperature	19.1	19.6	°C
Alkalinity as CaCO ₃	42	29	mg/L
Volume purged	4.9	2.6	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	29				0	GE	26				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	5.3				0	GE	5.3				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	75		■		2	GE	25				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	<50				0	GE	µg/L
pH	6.9	J		●	0	GE	6.9	J		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	1.1				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 68A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	4.9E+00				0	GE	4.3E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	3.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	3.7E+00				0	GP	2.2E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	3.3E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234					0	GP	< 3.5E+02				0	GP	pCi/L
Tritium	8.0E-01				0	GE	2.0E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter		Mod	GP	H	Flag	Lab		Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C			0		< 3.0E-03	C			0		pCi/L
Nickel-63	< 1.0E+01	C			0		< 1.0E+01	C			0		pCi/L
Plutonium-241	< 4.0E+00	C			0		< 4.0E+00	C			0		pCi/L
Plutonium-242	< 2.0E-05	C			0		< 2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 68B

<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>
N71525.5 E56882.1	33.276776 °N 81.655956 °W	134.5-123.5 ft msl	250 ft msl	4" PVC	S	McBean (IIB,)

SAMPLE DATE 01/04/93

04/15/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	7.8	8.1	pH
Sp. conductance	228	157	µS/cm
Water temperature	17.4	19.8	°C
Alkalinity as CaCO ₃	84	46	mg/L
Volume purged	0.88	0.78	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	18				0	GE	56				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	4.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	31		■		0	GE	29		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	62		■		2	GE	100		■		2	GE	µg/L
Nitrate as nitrogen	330				0	GE	750				0	GE	µg/L
pH	7.7	J		●	0	GE	8.1	J		●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	4.7				1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 68B (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	2.8E+00				0	GE	2.9E+00				0	GE	pCi/L
Nonvolatile beta	8.5E+00				0	GE	7.3E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	3.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	4.9E+00				1	GP	2.0E+00				0	GP	pCi/L
Technetium-99	<3.0E+02				0	GP	<3.0E+02				0	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	1.2E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	3.5E+01		■		2	GE	2.4E+02		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	<3.0E-03	C			0		<3.0E-03	C			0		pCi/L
Nickel-63	<1.0E+01	C			0		<1.0E+01	C			0		pCi/L
Plutonium-241	<4.0E+00	C			0		<4.0E+00	C			0		pCi/L
Plutonium-242	<2.0E-05	C			0		<2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 68C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71524.1 E56872.7	33.276758 °N 81.655978 °W	179.5-168.4 ft msl	250.1 ft msl	4" PVC	S	Barnwell (IIB)

SAMPLE DATE 01/04/93

04/15/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	5.4	5.8	pH
Sp. conductance	112	119	µS/cm
Water temperature	18	19.2	°C
Alkalinity as CaCO ₃	8	5	mg/L
Volume purged	0.67	0.65	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	17				0	GE	17				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	16				2	GE	8.8				1	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050	J			0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	2,200		■		2	GE	100		■		0	GE	µg/L
Cyanide	< 5.0				0	GE	< 10				0	GE	µg/L
Nickel	4.3				0	GE	< 4.0				0	GE	µg/L
Tin	< 2.0				0	GE	2.7				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	230		■		0	GE	170		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	77		■		2	GE	26				1	GE	µg/L
Nitrate as nitrogen	10,000		■		2	GE	10,000		■		2	GE	µg/L
pH	5.6	J	■	●	0	GE	6.0	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0				0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 68C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	6.6E+00				0	GE	3.3E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	1.9E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	4.4E+00				1	GP	pCi/L
Technetium-99	4.3E+03		■		2	GP	9.5E+03		■		2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.9E+03		■		2	GE	3.2E+03		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 69

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71546.9 E56475.1	33.27616 °N 81.657069 °W	229.0-199.0 ft msl	236 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/03/93

05/03/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	3.9	3.9	pH
Sp. conductance	218	200	µS/cm
Water temperature	20.4	19.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.7	2.3	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	110				0	GE	39				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	0.47				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	13				0	GE	4.7				0	GE	µg/L
Copper	5.1				0	GE	6.4				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	28				0	GE	6.6				0	GE	µg/L
Tin	2.9				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	65				0	GE	23				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	4,400		■		2	GE	4,800		■		2	GE	µg/L
Nitrate as nitrogen	86,000		■		2	GE	18,000		■		2	GE	µg/L
pH	3.9	J	■	●	1	GE	4.0	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 69 (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	1.9E+01		■		2	GE	3.3E+01		■		2	GE	pCi/L
Nonvolatile beta	4.5E+03		■		2	GE	4.9E+03		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	1.6E+02		■		2	GP	1.5E+02		■		2	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	1.1E+01		■		2	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	1.1E+00				0	GP	pCi/L
Radium-228	8.0E+00				0	GP	1.0E+00 R				0	GP	pCi/L
Strontium-89	1.6E+02		■		2	GP	6.9E+02		■		2	GP	pCi/L
Strontium-90	2.1E+03		■		2	GP	1.8E+03		■		2	GP	pCi/L
Technetium-99	1.6E+03		■		2	GP	4.9E+02				1	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	3.5E+02		■		2	GE	2.0E+02		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C			0	< 3.0E-03	C			0	pCi/L
Nickel-63	1.6E+02	C			2	1.5E+02	C			2	pCi/L
Plutonium-241	< 4.0E+00	C			0	< 4.0E+00	C			0	pCi/L
Plutonium-242	< 2.0E-05	C			0	< 2.0E-05	C			0	pCi/L

Note: See Appendix B for flagging criteria.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL HSB 69A

<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>
N71549.4 E56465.1	33.276149 °N 81.6571 °W	93.1-83.1 ft msl	236.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 01/03/93

04/09/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	170	170	ft msl
pH	7	7	pH
Sp. conductance	163	163	µS/cm
Water temperature	19	18.9	°C
Alkalinity as CaCO ₃	38	54	mg/L
Volume purged	4.9	3.5	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	30				0	GE	27				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	3.6				0	GE	4.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	3.1				0	GE	5.6				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	< 20				0	GE	21				0	GE	µg/L
Nitrate as nitrogen	< 50				0	GE	760				0	GE	µg/L
pH	6.9	J		●	0	GE	7.2	J		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0				0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 69A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	2.5E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	4.3E+00				0	GP	1.6E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	2.8E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 70

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72606.9 E55758.9	33.277336 °N 81.661013 °W	235.7-205.7 ft msl	242.8 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/05/93

04/12/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	5.3	5.4	pH
Sp. conductance	58	70	µS/cm
Water temperature	20.2	15.5	°C
Alkalinity as CaCO ₃	1	0	mg/L
Volume purged	5.5	4.9	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	61				0	GE	100				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	29				2	GE	7.6				1	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	1,500		■		2	GE	18				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	5.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	36		■		0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	100		■		2	GE	130		■		2	GE	µg/L
Nitrate as nitrogen	390				0	GE	260				0	GE	µg/L
pH	5.3	J	■	●	0	GE	5.9	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 70 (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	2.6E+00				0	GE	pCi/L
Nonvolatile beta	7.8E+00				0	GE	1.4E+01				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	2.2E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	2.7E+00				0	GP	5.3E+00				1	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.3E+01				1	GE	4.4E+01				2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 70C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72597.3 E55757.1	33.277311 °N 81.660999 °W	174.9-164.9 ft msl	243.1 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/06/93

04/13/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	230	ft msl
pH	9.2	11.9	pH
Sp. conductance	344	1264	µS/cm
Water temperature	18.9	17.9	°C
Alkalinity as CaCO ₃	16	75	mg/L
Volume purged	0.72	0.73	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	120				0	GE	120				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	0.25				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	9.2				0	GE	13				1	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	2.3				0	GE	7.6				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	34				1	GE	120				2	GE	µg/L
Nitrate as nitrogen	31,000				2	GE	30,000				2	GE	µg/L
pH	8.7	J			1	GE	11	J			2	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 70C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	8.8E+00				1	GE	1.0E+01				1	GE	pCi/L
Nonvolatile beta	1.2E+02		■		2	GE	6.1E+01		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	2.2E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	2.5E+00				0	GP	3.4E+00				0	GP	pCi/L
Technetium-99	7.2E+03		■		2	GP	9.8E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	3.9E+03		■		2	GE	3.3E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 71

<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>
N72875.9 E55279.2	33.277148 °N 81.662799 °W	234.8-204.8 ft msl	241.4 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/22/93

04/20/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	5.1	5.2	pH
Sp. conductance	34	28	µS/cm
Water temperature	15.9	15.9	°C
Alkalinity as CaCO ₃	1	0	mg/L
Volume purged	6.3	3.7	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	3.3				0	GE	< 3.0				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	4.5				0	GE	7.6				1	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	27				0	WA	37				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	< 2.0				0	GE	< 2.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 3.0				0	WA	< 8.0				0	GE	µg/L
Zinc	10	V			0	WA	7.7				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	83		■		2	GE	38				1	GE	µg/L
Nitrate as nitrogen	79				0	WA	570				0	GE	µg/L
pH	6.2	J	■	●	0	WA	5.4	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0				0	GE	1.4				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 71 (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	<5.0E-01				0	TM	<2.0E+00				0	GE	pCi/L
Nonvolatile beta	1.6E+00				0	TM	<2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	CN	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Radium-226	<2.9E-01				0	TM	2.6E+00				0	GP	pCi/L
Radium-228	1.2E+00				0	TM	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	CN	<2.0E+00				0	GP	pCi/L
Strontium-90	<2.0E+00				0	CN	<2.0E+00				0	GP	pCi/L
Technetium-99	<3.0E+02				0	CN	<3.0E+02				0	GP	pCi/L
Thorium-228	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	4.3E+01		■		2	TM	6.5E+01		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 71C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72866.8 E55281.5	33.277131 °N 81.662775 °W	181.9-171.9 ft msl	241.6 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/28/93

04/20/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	10.4	11.8	pH
Sp. conductance	473	819	µS/cm
Water temperature	16.3	17	°C
Alkalinity as CaCO ₃	25	61	mg/L
Volume purged	0.70	0.66	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	76				0	GE	66				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	7.7				0	GE	7.5				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	0.55				0	GE	µg/L
Selenium	2.2				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	4.0				0	GE	16				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<2.5				0	GE	µg/L
Nickel	<4.0				0	GE	16				0	GE	µg/L
Tin	12		■		1	GE	7.9				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	11				0	GE	56		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	920		■		2	GE	3,900		■		2	GE	µg/L
Nitrate as nitrogen	51,000		■		2	GE	44,000		■		2	GE	µg/L
pH	11	J	■	●	2	GE	10	J	■	●	2	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.2				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 71C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.5E+01				1	GE	2.0E+01		■		2	GE	pCi/L
Nonvolatile beta	1.4E+02		■		2	GE	1.3E+02		■		2	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	4.3E+00		■		2	GP	4.7E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	3.7E+00				0	GP	pCi/L
Radium-228	2.8E+00				0	GP	1.3E+00				0	GP	pCi/L
Strontium-89	2.3E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	1.7E+04		■		2	GP	1.6E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	6.7E+03		■		2	GE	5.9E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 83A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71648.6 E58806.1	33.279861 °N 81.651655 °W	76.0-65.2 ft msl	237.3 ft msl	4" PVC	S	M. Congaree (IIA)

SAMPLE DATE 03/21/93

06/10/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	170	170	ft msl
pH	7.1	6.9	pH
Sp. conductance	200	199	µS/cm
Water temperature	19	19.7	°C
Alkalinity as CaCO ₃	63	55	mg/L
Volume purged	2.2	3.0	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	33				0	GE	31				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	3.9				1	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	4.7				0	GE	5.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	6.8				0	GE	5.1				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	3.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	<50				0	GE	µg/L
pH	7.1	J		•	0	GE	7.5	J		•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 83A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	2.4E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	CN	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Radium-228	1.3E+00				0	CN	2.5E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	CN	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	CN	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	CN	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 83B

<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>
N71639.6 E58594.9	33.279823 °N 81.651667 °W	132.1-121.2 ft msl	237 ft msl	4" PVC	S	McBean (IIB ₁)

SAMPLE DATE 01/05/93

04/13/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft msl
pH	6.8	6.9	pH
Sp. conductance	113	124	µS/cm
Water temperature	19.2	19.2	°C
Alkalinity as CaCO ₃	33	23	mg/L
Volume purged	3.5	3.3	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	38				0	GE	35				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	5.3				0	GE	4.4				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	10				0	GE	12				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	60		■		2	GE	75		■		2	GE	µg/L
Nitrate as nitrogen	<50				0	GE	<50				0	GE	µg/L
pH	6.8	J		•	0	GE	7.0	J		•	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	1.2	J6		•	0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 83B (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.7E+00				0	GE	1.7E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 83C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71636.9 E58614.8	33.279849 °N 81.651809 °W	171.2-160.2 ft msl	237.1 ft msl	4" PVC	S	Barnwell (IIB,)

SAMPLE DATE 01/05/93

04/13/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	5.2	5.6	pH
Sp. conductance	22	25	µS/cm
Water temperature	19	19.4	°C
Alkalinity as CaCO ₃	1	2	mg/L
Volume purged	4.8	5.7	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	<3.0				0	GE	<3.0				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	4.2				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	11				0	GE	12				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	7.5				0	GE	9.8				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	21				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	50				0	GE	µg/L
pH	5.7	J	■	●	0	GE	5.7	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	2.8				1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 83C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab
Gross alpha	< 2.0E+00				0	GE
Nonvolatile beta	< 2.0E+00				0	GE

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab
Americium-241	< 1.0E+00				0	GP
Cobalt-60	< 1.0E+01				0	GP
Curium-242	< 1.0E+00				0	GP
Curium-243/244	< 1.0E+00				0	GP
Curium-245/246	< 1.0E+00				0	GP
Iodine-129	< 2.0E+00				0	GP
Plutonium-238	< 1.0E+00				0	GP
Plutonium-239/240	< 1.0E+00				0	GP
Radium-226	< 1.0E+00				0	GP
Radium-228	< 1.0E+00				0	GP
Strontium-89	< 2.0E+00				0	GP
Strontium-90	< 2.0E+00				0	GP
Technetium-99	< 3.0E+02				0	GP
Thorium-228	< 1.0E+00				0	GP
Thorium-230	< 1.0E+00				0	GP
Thorium-232	< 1.0E+00				0	GP
Thorium-234						
Tritium	< 7.0E-01				0	GE
Uranium-233/234	< 1.0E+00				0	GP
Uranium-235	< 1.0E+00				0	GP
Uranium-238	< 1.0E+00				0	GP

Calculated Radionuclides

Parameter		Mod	GP	H	Flag	Lab
Americium-243	< 3.0E-03	C			0	
Nickel-63	< 1.0E+01	C			0	
Plutonium-241	< 4.0E+00	C			0	
Plutonium-242	< 2.0E-05	C			0	

2Q93	Mod	GP	H	Flag	Lab	Unit
< 2.0E+00				0	GE	pCi/L
< 2.0E+00				0	GE	pCi/L

2Q93	Mod	GP	H	Flag	Lab	Unit
< 1.0E+00				0	GP	pCi/L
< 1.0E+01				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 3.0E+02				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 3.5E+02				0	GP	pCi/L
< 7.0E-01				0	GE	pCi/mL
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 83D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71628.1 E58601.7	33.279809 °N 81.651627 °W	228.7-198.7 ft msl	237 ft msl	4" PVC	S	Water table (IB ₂)

SAMPLE DATE	01/05/93	04/13/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	230	ft msl
pH	5.1	5.5	pH
Sp. conductance	81	116	µS/cm
Water temperature	19.7	18.2	°C
Alkalinity as CaCO ₃	0	5	mg/L
Volume purged	4.9	5.3	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	28				0	GE	53				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	0.71				0	GE	0.27				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	19				0	GE	8.9				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	< 2.0				0	GE	5.6				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	28				0	GE	14				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	99				2	GE	56				2	GE	µg/L
Nitrate as nitrogen	7,000				1	GE	6,400				1	GE	µg/L
pH	5.4	J			0	GE	5.6	J			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0				0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 83D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	3.7E+00				0	GE	4.2E+00				0	GE	pCi/L
Nonvolatile beta	1.5E+01				0	GE	1.2E+01				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	2.4E+00				0	GP	1.8E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	9.6E+00		■		2	GP	3.9E+00				0	GP	pCi/L
Technetium-99	2.0E+03		■		2	GP	1.4E+03				2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	7.1E+02		■		2	GE	6.0E+02				2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 84A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71586.2 E56359.1	33.276057 °N 81.65745 °W	75.9-64.7 ft msl	228.7 ft msl	4" PVC	V	L. Congaree (IIA)

SAMPLE DATE 01/05/93

04/14/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	170	170	ft msl
pH	6.4	6.5	pH
Sp. conductance	110	116	µS/cm
Water temperature	20.3	19.8	°C
Alkalinity as CaCO ₃	19	18	mg/L
Volume purged	2.1	1.7	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	2.5				0	GE	3.1				0	GE	µg/L
Barium	30				0	GE	28				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.4				0	GE	4.2				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	<50				0	GE	µg/L
pH	6.5	J	■	●	0	GE	6.6	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0	JV			0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 84A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	4.5E+00				0	GE	4.3E+00				0	GE	pCi/L
Nonvolatile beta	1.2E+02		■		2	GE	6.9E+01		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	1.8E+00				0	GP	pCi/L
Strontium-89	1.1E+01				1	GP	5.2E+00				0	GP	pCi/L
Strontium-90	3.0E+01		■		2	GP	4.2E+01		■		2	GP	pCi/L
Technetium-99	<3.0E+02				0	GP	<3.0E+02				0	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	2.7E+01		■		2	GE	1.9E+01				1	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 84B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71603.3 E56352.4	33.276084 °N 81.657501 °W	132.9-121.8 ft msl	228.9 ft msl	4" PVC	S	McBean (IIB ₁)

SAMPLE DATE 01/06/93

04/15/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	210	210	ft msl
pH	9.2	11.3	pH
Sp. conductance	127	372	µS/cm
Water temperature	18.6	19.3	°C
Alkalinity as CaCO ₃	42	53	mg/L
Volume purged	0.86	0.77	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	40				0	GE	56				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	5.6				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	9.1				0	GE	9.1				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	13				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	73		■		2	GE	360		■		2	GE	µg/L
Nitrate as nitrogen	790				0	GE	1,200				0	GE	µg/L
pH	9.6	J	■	●	1	GE	9.5	J	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	4.1				1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 84B (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	5.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	1.2E+01				0	GE	4.5E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	5.9E+00				1	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	6.6E+01	■			2	GE	1.4E+02	■			2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 84C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71597.1 E58360.1	33.276083 °N 81.657469 °W	181.8-170.9 ft msl	229.1 ft msl	4" PVC	S	Barnwell (IB ₁)

SAMPLE DATE 01/06/93

04/15/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	210	220	ft msl
pH	5.9	7.2	pH
Sp. conductance	89	115	µS/cm
Water temperature	19.2	18.6	°C
Alkalinity as CaCO ₃	23	25	mg/L
Volume purged	0.56	0.55	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	15				0	GE	19				0	GE	µg/L
Cadmium	2.3				0	GE	3.4				1	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	18				2	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	11				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	4.4				0	GE	2.2				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	140		■		0	GE	140		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	44				1	GE	130		■		2	GE	µg/L
Nitrate as nitrogen	1,900				0	GE	2,300				0	GE	µg/L
pH	7.4	J		●	0	GE	7.4	J		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0	JV			0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 84C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	3.3E+00				0	GE	3.4E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	4.4E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	8.2E+02				1	GP	8.6E+02				1	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	4.0E+02		■		2	GE	4.0E+02			■	2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 84D

<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>
N71583.9 E56349.9	33.276037 °N 81.65747 °W	219.5-199.5 ft msl	228.8 ft msl	4" PVC	V	Water table (IIB ₁)

SAMPLE DATE 01/05/93

04/14/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	4.2	4.3	pH
Sp. conductance	66	63	µS/cm
Water temperature	20.6	19.5	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	4.7	2.7	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	9.7				0	GE	6.9				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	8.6				0	GE	6.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	480		■		2	GE	380		■		2	GE	µg/L
Nitrate as nitrogen	4,800				0	GE	5,100				1	GE	µg/L
pH	4.4	J	■	●	0	GE	5.2	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 84D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	1.1E+01				1	GE	7.6E+00				1	GE	pCi/L
Nonvolatile beta	3.8E+02		■		2	GE	2.4E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	2.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	4.9E+00				0	GP	6.4E+00				0	GP	pCi/L
Strontium-89	1.0E+02		■		2	GP	8.6E+01		■		2	GP	pCi/L
Strontium-90	5.7E+01		■		2	GP	1.3E+02		■		2	GP	pCi/L
Technetium-99	<3.0E+02				0	GP	6.3E+02				1	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	4.2E+02		■		2	GE	2.9E+02		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection 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 81.65493 °W	71.1-81.1 ft msl	294.4 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 03/21/93

06/10/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	170	170	ft msl
pH	6.9	7	pH
Sp. conductance	194	191	µS/cm
Water temperature	19.8	20	°C
Alkalinity as CaCO ₃	59	26	mg/L
Volume purged	2.6	3.0	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	33				0	GE	30				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE							µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin													
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	2.8				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	260				0	GE	µg/L
pH	7.1	J		•	0	GE	7.1	J		•	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate	<10				0	GE	<10	J1			0	GE	µg/L
Methylene chloride	<1.0	JV			0	GE	<1.0	JV			0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 85A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	2.5E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	CN	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Radium-228	1.4E+00				0	CN	2.5E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	CN	< 2.0E+00				0	GP	pCi/L
Strontium-90	3.2E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	CN	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 85B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73789.3 E58953.3	33.285162 °N 81.654898 °W	143.2-133.2 ft msl	294.5 ft msl	4" PVC	S	McBean (IIB ₁)

SAMPLE DATE 03/22/93

06/10/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	240	240	ft msl
pH	11	10.3	pH
Sp. conductance	259	150	µS/cm
Water temperature	20.3	21	°C
Alkalinity as CaCO ₃	60	157	mg/L
Volume purged	0.69	0.77	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	39				0	GE	27				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	4.6				0	GE	4.7				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	10		■		1	GE	7.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	9.4				0	GE	<8.0				0	GE	µg/L
Zinc	10				0	GE	11				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	1,800		■		2	GE	1,400		■		2	GE	µg/L
Nitrate as nitrogen	480				0	GE	340				0	GE	µg/L
pH	11	J	■	●	2	GE	11	J	■	●	2	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.1				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 85B (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	2.2E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	3.5E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Curium-246/248	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	CN	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Radium-228	2.4E+00				0	GP	1.2E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	CN	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	CN	4.9E+00				1	GP	pCi/L
Technetium-99	< 3.0E+02				0	CN	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-230	1.9E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.6E+00				0	GE	8.5E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 85C

<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>
N73802.3 E58947.4	33.285182 °N 81.654939 °W	224.2-214.2 ft msl	294.1 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/15/93

04/15/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	240	240	ft msl
pH	4.4	4.8	pH
Sp. conductance	32	34	µS/cm
Water temperature	20.2	20.4	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	4.7	4.8	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	5.3				0	GE	5.3				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	32				0	GE	21				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	40				1	GE	39				1	GE	µg/L
Nitrate as nitrogen	2,300				0	GE	2,200				0	GE	µg/L
pH	5.1	J	■	●	0	GE	5.2	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	3.9				1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 85C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab
Gross alpha	3.3E+00				0	TM
Nonvolatile beta	4.0E+00				0	TM

2Q93	Mod	GP	H	Flag	Lab	Unit
3.3E+00				0	GE	pCi/L
< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab
Americium-241	< 1.0E+00				0	CN
Cobalt-60	< 1.0E+01				0	GP
Curium-242	< 1.0E+00				0	CN
Curium-243/244	< 1.0E+00				0	CN
Curium-245/246	< 1.0E+00				0	GP
Iodine-129	< 2.0E+00				0	CN
Plutonium-238	< 1.0E+00				0	CN
Plutonium-239/240	< 1.0E+00				0	CN
Radium-226	9.0E-01				0	TM
Radium-228	3.6E+00				0	GP
Strontium-89	< 2.0E+00				0	CN
Strontium-90	2.3E+00				0	GP
Technetium-99	< 3.0E+02				0	CN
Thorium-228	< 1.0E+00				0	CN
Thorium-230	1.0E+00				0	GP
Thorium-232	< 1.0E+00				0	CN
Thorium-234					0	TM
Tritium	5.0E+00				0	CN
Uranium-233/234	< 1.0E+00				0	CN
Uranium-235	< 1.0E+00				0	CN
Uranium-238	< 1.0E+00				0	CN

2Q93	Mod	GP	H	Flag	Lab	Unit
< 1.0E+00				0	GP	pCi/L
< 1.0E+01				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
1.9E+00				0	GP	pCi/L
1.1E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 3.0E+02				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 3.5E+02				0	GP	pCi/L
5.6E+00				0	GE	pCi/mL
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab
Americium-243	< 3.0E-03	C		0	
Nickel-63	< 1.0E+01	C		0	
Plutonium-241	< 4.0E+00	C		0	
Plutonium-242	< 2.0E-05	C		0	

Mod	GP	H	Flag	Lab	Unit
< 3.0E-03	C		0		pCi/L
< 1.0E+01	C		0		pCi/L
< 4.0E+00	C		0		pCi/L
< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL HSB 86A

<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>
N72520.2 E55985.9	33.277514 °N 81.660247 °W	73.9-63.1 ft msl	262.4 ft msl	4" PVC	S	L. Congaree (IIA)

SAMPLE DATE 01/06/93

04/09/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	170	170	ft msl
pH	6.4	6.6	pH
Sp. conductance	133	131	µS/cm
Water temperature	19.8	19.7	°C
Alkalinity as CaCO ₃	41	29	mg/L
Volume purged	3.1	2.6	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	25				0	GE	24				0	WA	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	4.2				0	GE	13				0	WA	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	3.8				0	GE	4.7				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<3.0				0	WA	µg/L
Zinc	<2.0				0	GE	9.5	V			0	WA	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	<20				0	WA	µg/L
pH	6.5	J	■	●	0	GE	7.0	J		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 86A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	<2.0E+00				0	GE	2.2E+00				0	TM	pCi/L
Nonvolatile beta	<2.0E+00				0	GE	3.9E+00				0	TM	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	CN	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L
Radium-226	<1.0E+00				0	GP	4.7E-01				0	TM	pCi/L
Radium-228	<1.0E+00				0	GP	2.6E+00				0	CN	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	CN	pCi/L
Strontium-90	<2.0E+00				0	GP	<2.0E+00				0	CN	pCi/L
Technetium-99	<3.0E+02				0	GP	<3.0E+02				0	CN	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.1E+00				0	GE	<5.1E-01				0	TM	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	CN	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 86B

<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>
N72519.0 E55976.9	33.277497 °N 81.660269 °W	124.0-113.8 ft msl	261.9 ft msl	4" PVC	S	McBean (IIB ₁)

SAMPLE DATE 01/06/93

04/12/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft msl
pH	7.1	7.5	pH
Sp. conductance	216	224	µS/cm
Water temperature	20.3	20.6	°C
Alkalinity as CaCO ₃	78	81	mg/L
Volume purged	2.7	2.4	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	43				0	GE	42				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050	J6		•	0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	5.5				0	GE	2.1				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	<50				0	GE	µg/L
pH	7.0	J		•	0	GE	7.4	J		•	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 86B (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	3.1E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	1.3E+01			1	GP	pCi/L	
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	6.9E+02			1	GP		< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 86C

<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>
N72529.7 E55984.6	33.277533 °N 81.660269 °W	199.4-189.4 ft msl	262.9 ft msl	4" PVC	V	Barnwell (IB ₁)

SAMPLE DATE 01/06/93

04/12/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft msl
pH	4.2	4.5	pH
Sp. conductance	415	424	µS/cm
Water temperature	20.6	20.8	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.7	3.0	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	75				0	GE	74				0	GE	µg/L
Cadmium	5.5				2	GE	4.7				1	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	35				1	GE	33				1	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	51		■		1	GE	48				0	GE	µg/L
Tin	5.9				0	GE	7.7				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	44		■		0	GE	42		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	940		■		2	GE	1,300		■		2	GE	µg/L
Nitrate as nitrogen	47,000		■		2	GE	46,000		■		2	GE	µg/L
pH	4.4	J	■	●	0	GE	3.8	J	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 86C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	2.5E+01		■		2	GE	4.8E+01		■		2	GE	pCi/L
Nonvolatile beta	7.5E+02		■		2	GE	1.2E+03		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	5.8E+01				1	GP	5.9E+01				1	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	1.2E+01		■		2	GP	1.1E+01		■		2	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	1.0E+01				1	GP	3.8E+00				0	GP	pCi/L
Radium-228	4.1E+00				0	GP	3.0E+00				0	GP	pCi/L
Strontium-89	1.7E+02		■		2	GP	1.0E+02		■		2	GP	pCi/L
Strontium-89/90	7.1E+02		■		2	GP							
Strontium-90	1.1E+02		■		2	GP	7.0E+02		■		2	GP	pCi/L
Technetium-99	3.8E+04		■		2	GP	3.6E+04		■		2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.6E+04		■		2	GE	1.6E+04		■		2	GE	pCi/mL
Uranium-233/234	1.6E+00				0	GP	1.5E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	5.8E+01	C	■	2		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 86D

<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>
N72522.1 E55998.5	33.277536 °N 81.680223 °W	236.6-206.6 ft msl	263 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/06/93

04/12/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft msl
pH	3.7	4.3	pH
Sp. conductance	220	158	µS/cm
Water temperature	20.3	20.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	3.5	2.2	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	41				0	GE	23				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	4.9				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	6.9				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<2.5	J		•	0	GE	µg/L
Nickel	11				0	GE	5.1				0	GE	µg/L
Tin	<2.0				0	GE	2.6				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	33		■		0	GE	19				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	2,100		■		2	GE	920		■		2	GE	µg/L
Nitrate as nitrogen	20,000		■		2	GE	13,000		■		2	GE	µg/L
pH	4.8	J	■	•	0	GE	4.5	J	■	•	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 86D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	2.3E+01		■		2	GE	8.2E+00				1	GE	pCi/L
Nonvolatile beta	9.7E+02		■		2	GE	5.3E+02		■		2	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	5.4E+01				1	GP	3.2E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	5.7E+00		■		2	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	5.0E+00				0	GP	2.3E+01		■		2	GP	pCi/L
Radium-228	9.7E+00				0	GP	2.9E+00				0	GP	pCi/L
Strontium-89	2.4E+02		■		2	GP	3.3E+01		■		2	GP	pCi/L
Strontium-90	1.3E+02		■		2	GP	2.7E+02		■		2	GP	pCi/L
Technetium-99	5.4E+03		■		2	GP	5.2E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	3.0E+03		■		2	GE	2.3E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	<3.0E-03	C			0		<3.0E-03	C			0		pCi/L
Nickel-63	5.4E+01	C	■		2		3.2E+01	C			1		pCi/L
Plutonium-241	<4.0E+00	C			0		<4.0E+00	C			0		pCi/L
Plutonium-242	<2.0E-05	C			0		<2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB100C

<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>
N72077.2 E58806.5	33.281136 °N 81.65196 °W	163.0-153.0 ft msl	260.2 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/06/93

04/01/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	5.5	5.8	pH
Sp. conductance	33	40	µS/cm
Water temperature	20.2	20.6	°C
Alkalinity as CaCO ₃	5	6	mg/L
Volume purged	2.9	2.9	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Barium	3.6				0	GE	6.1				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	3.4				0	GE	6.1				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	21				0	GE	21				0	GE	µg/L
Nitrate as nitrogen	160				0	GE	330				0	GE	µg/L
pH	5.9	J	■	●	0	GE	6.1	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB100C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	1.2E+00				0	GP	pCi/L
Strontium-89	4.2E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.7E+00				0	GE	1.8E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL HSB100D

SR# Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72073.8 E58796.9	33.281113 °N 81.651978 °W	236.9-216.9 ft msl	260.1 ft msl	4" PVC	S	Water table (HB ₂)

SAMPLE DATE 01/06/93

04/01/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	240	ft msl
pH	5	5.4	pH
Sp. conductance	68	113	µS/cm
Water temperature	21.2	21.2	°C
Alkalinity as CaCO ₃	0	2	mg/L
Volume purged	8.3	3.1	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	25				0	GE	27				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	7.2				0	GE	3.9				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	0.52				0	GE	0.23				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	32				0	GE	24				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	82				0	GE	70				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	35				1	GE	26				1	GE	µg/L
Nitrate as nitrogen	4,300				0	GE	7,500				1	GE	µg/L
pH	5.5	J	■	●	0	GE	5.5	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	2.4	JV			0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB100D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	4.1E+00				0	GE	4.2E+00				0	GE	pCi/L
Nonvolatile beta	3.0E+01				1	GE	3.8E+01				1	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	4.8E+00				0	GP	3.7E+00				0	GP	pCi/L
Strontium-90	9.2E+00	■			2	GP	2.5E+01	■			2	GP	pCi/L
Technetium-99	1.1E+03	■			2	GP	1.7E+03	■			2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	7.0E+02	■			2	GE	1.2E+03	■			2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C			0	<3.0E-03	C			0	pCi/L
Nickel-63	<1.0E+01	C			0	<1.0E+01	C			0	pCi/L
Plutonium-241	<4.0E+00	C			0	<4.0E+00	C			0	pCi/L
Plutonium-242	<2.0E-05	C			0	<2.0E-05	C			0	pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB101C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72001.9 E58804.4	33.28064 °N 81.652346 °W	176.3-166.3 ft msl	258.5 ft msl	4" PVC	S	Barnwell (IB ₁)

SAMPLE DATE 01/06/93

04/01/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	6	6.2	pH
Sp. conductance	56	60	µS/cm
Water temperature	19.9	19.8	°C
Alkalinity as CaCO ₃	14	10	mg/L
Volume purged	4.9	3.5	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Barium	18				0	GE	19				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	3.8				0	GE	3.5				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	2.6				0	GE	5.2				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as Nitrogen	820				0	GE	880				0	GE	µg/L
pH	6.3	J	■	●	0	GE	6.4	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.0				0	GE	2.1				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB101C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	3.8E+00				0	GE	5.3E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	5.3E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.4E+01				1	GE	1.8E+01				1	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

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WELL HSB101D

<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>
N71997.5 E58594.8	33.280614 °N 81.652362 °W	236.1-216.1 ft msl	258.7 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/14/93

04/01/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	9.6	9.8	pH
Sp. conductance	673	1094	µS/cm
Water temperature	19.4	20.4	°C
Alkalinity as CaCO ₃	116	134	mg/L
Volume purged	1.2	1.6	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	76		■		2	GE	100		■		2	GE	µg/L
Barium	<3.0				0	GE	<3.0				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	6.3				0	GE	6.1				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	4.0		■		2	GE	5.6		■		2	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	360		■		2	GE	430		■		2	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	770		■		2	GE	630		■		2	GE	µg/L
Nitrate as nitrogen	45,000		■		2	GE	41,000		■		2	GE	µg/L
pH	9.5	J	■	●	1	GE	9.5	J	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB101D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	1.5E+01				1	GE	1.5E+01		■		2	GE	pCi/L
Nonvolatile beta	4.7E+01				1	GE	4.1E+01				1	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	3.3E+00				0	GP	5.5E+00				0	GP	pCi/L
Strontium-89	8.6E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	7.9E+01		■		2	GP	8.2E+00		■		2	GP	pCi/L
Technetium-99	2.4E+04		■		2	GP	2.1E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.1E+04		■		2	GE	9.9E+03		■		2	GE	pCi/mL
Uranium-233/234	1.8E+00				0	GP	4.5E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	1.6E+00				0	GP	4.5E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB102C

<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>
N71960.1 E58399.7	33.280213 °N 81.652803 °W	176.7-166.7 ft msl	259 ft msl	4" PVC	S	Barnwell (IIb ₁)

SAMPLE DATE 01/14/93

04/01/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	5.8	6.1	pH
Sp. conductance	174	203	µS/cm
Water temperature	19.7	20.1	°C
Alkalinity as CaCO ₃	11	10	mg/L
Volume purged	3.7	5.0	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Barium	30				0	GE	37				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	0.34				0	GE	0.41				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	4.2				0	GE	µg/L
Tin	5.5				0	GE	7.2				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	18				0	GE	20				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	21				0	GE	56		■		2	GE	µg/L
Nitrate as nitrogen	16,000		■		2	GE	16,000		■		2	GE	µg/L
pH	6.2	J	■	●	0	GE	6.1	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	2.3				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB102C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	2.0E+00				0	GE	pCi/L
Nonvolatile beta	7.5E+00				0	GE	8.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	1.4E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	6.9E+00				1	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	4.1E+02				0	GP	3.6E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	1.1E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.8E+02		■		2	GE	2.0E+02		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB102D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71952.4 E58393.4	33.280186 °N 81.652805 °W	236.3-216.3 ft msl	258.6 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/14/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230		ft msl
pH	3.5		pH
Sp. conductance	441		µS/cm
Water temperature	18.3		°C
Alkalinity as CaCO ₃	0		mg/L
Volume purged	1.1		well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE							µg/L
Barium	46				0	GE							µg/L
Cadmium	<2.0				0	GE							µg/L
Chromium	<4.0				0	GE							µg/L
Lead	20				2	GE							µg/L
Lindane	<0.0050				0	GE							µg/L
Mercury	3.9				2	GE							µg/L
Selenium	<2.0	J1			0	GE							µg/L
Silver	<2.0				0	GE							µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE							µg/L
Benzene	<1.0				0	GE							µg/L
Cobalt	4.8				0	GE							µg/L
Copper	70				0	GE							µg/L
Cyanide	<5.0				0	GE							µg/L
Nickel	25				0	GE							µg/L
Tin	2.4				0	GE							µg/L
Trichloroethylene	<1.0				0	GE							µg/L
Trichlorofluoromethane	<1.0				0	GE							µg/L
Vanadium	<8.0				0	GE							µg/L
Zinc	110				0	GE							µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	13,000				2	GE							µg/L
Nitrate as nitrogen	40,000				2	GE							µg/L
pH	3.7	J			1	GE							pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.4	JV			0	GE							µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB102D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.7E+02		■		2	GE							pCi/L
Nonvolatile beta	4.6E+03		■		2	GE							pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP							pCi/L
Cobalt-60	7.6E+01				1	GP							pCi/L
Curium-242	< 1.0E+00				0	GP							pCi/L
Curium-243/244	< 1.0E+00				0	GP							pCi/L
Curium-245/246	< 1.0E+00				0	GP							pCi/L
Iodine-129	< 2.0E+00				0	GP							pCi/L
Plutonium-238	< 1.0E+00				0	GP							pCi/L
Plutonium-239/240	< 1.0E+00				0	GP							pCi/L
Radium-226	1.1E+01				1	GP							pCi/L
Radium-228	9.2E+00				0	GP							pCi/L
Strontium-89	3.9E+02		■		2	GP							pCi/L
Strontium-90	1.6E+03		■		2	GP							pCi/L
Technetium-99	1.8E+04		■		2	GP							pCi/L
Thorium-228	< 1.0E+00				0	GP							pCi/L
Thorium-230	1.6E+00				0	GP							pCi/L
Thorium-232	< 1.0E+00				0	GP							pCi/L
Thorium-234													
Tritium	8.8E+03		■		2	GE							pCi/mL
Uranium-233/234	5.4E+01		■		2	GP							pCi/L
Uranium-235	2.9E+00				0	GP							pCi/L
Uranium-238	5.8E+01		■		2	GP							pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	7.6E+01	C	■	2		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB103C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71593.9 E58323.6	33.279279 °N 81.652293 °W	169.2-159.2 ft msl	247.4 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE	01/06/93	04/01/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	230	ft msl
pH	4.8	5.1	pH
Sp. conductance	219	229	µS/cm
Water temperature	19.7	20	°C
Alkalinity as CaCO ₃	0	1	mg/L
Volume purged	3.3	2.8	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	72				0	GE	64				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	1.3				1	GE	1.5				1	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	13				0	GE	11				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	6.2				0	GE	6.6				0	GE	µg/L
Tin	4.0				0	GE	4.0				0	GE	µg/L
Trichloroethylene	4.5				1	GE	3.8				1	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	19				0	GE	16				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	200		■		2	GE	180		■		2	GE	µg/L
Nitrate as nitrogen	23,000		■		2	GE	23,000		■		2	GE	µg/L
pH	5.3	J	■	●	0	GE	5.6	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	2.8	JV			1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB103C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	7.9E+00				1	GE	6.7E+00				0	GE	pCi/L
Nonvolatile beta	2.4E+01				0	GE	1.8E+01				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	1.8E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	5.1E+00				0	GP	1.8E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	3.4E+00				0	GP	4.0E+00				0	GP	pCi/L
Technetium-99	1.4E+03	■			2	GP	1.1E+03	■			2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	7.1E+02	■			2	GE	6.6E+02	■			2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB103D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71588.1 E58315.6	33.279253 °N 81.652302 °W	233.7-213.7 ft msl	247.6 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE	01/13/93	04/01/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	4	4.4	pH
Sp. conductance	201	230	µS/cm
Water temperature	20.5	20.9	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.9	4.6	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	38				0	GE	25				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050	J		•	0	GE	< 0.0050				0	GE	µg/L
Mercury	1.6				1	GE	1.2				1	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0				0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	4.2				0	GE	5.4				0	GE	µg/L
Tin	2.6				0	GE	< 2.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	4.4				0	GE	2.8				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	1,500		■		2	GE	740		■		2	GE	µg/L
Nitrate as nitrogen	19,000		■		2	GE	23,000		■		2	GE	µg/L
pH	4.4	J	■	•	0	GE	4.6	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0	JV			0	GE	2.2	JV			0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB103D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	2.4E+01		■		2	GE	1.7E+01		■		2	GE	pCi/L
Nonvolatile beta	7.3E+02		■		2	GE	4.1E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	1.4E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	1.5E+01		■		2	GP	1.3E+01		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	1.2E+01				1	GP	1.5E+00				0	GP	pCi/L
Radium-228	9.9E+00				0	GP	4.7E+00				0	GP	pCi/L
Strontium-89	1.3E+02		■		2	GP	2.8E+01		■		2	GP	pCi/L
Strontium-90	2.7E+02		■		2	GP	2.2E+02		■		2	GP	pCi/L
Technetium-99	4.6E+03		■		2	GP	2.6E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	1.5E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	2.1E+03		■		2	GE	1.5E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	1.4E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB104C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71376.8 E58082.6	33.278406 °N 81.652508 °W	173.5-163.5 ft msl	247.9 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/11/93

04/01/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	10.6	10.4	pH
Sp. conductance	208	231	µS/cm
Water temperature	19.4	19.4	°C
Alkalinity as CaCO ₃	61	55	mg/L
Volume purged	3.3	3.4	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Barium	75				0	GE	73				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	18		■		1	GE	18		■		1	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	420		■		2	GE	450		■		2	GE	µg/L
Nitrate as nitrogen	5,800				1	GE	6,500				1	GE	µg/L
pH	10	J	■	●	2	GE	10	J	■	●	2	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.3	JV			0	GE	2.3	JV			0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB104C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.8E+01				1	GE	2.2E+01				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	1.2E+00				0	GP	pCi/L
Radium-228	1.4E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	3.5E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	2.2E+00				0	GP	8.7E+00		■		2	GP	pCi/L
Technetium-99	5.7E+02				1	GP	4.5E+02				1	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.7E+02		■		2	GE	2.6E+02		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB104D

<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>
N71370.2 E58075.8	33.27838 °N 81.652511 °W	230.6-210.6 ft msl	247.8 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/13/93

05/03/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	3.9	4.2	pH
Sp. conductance	179	178	µS/cm
Water temperature	20.5	19.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.6	3.0	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	38				0	GE	90				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	1.2				1	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	5.2				0	GE	13				0	GE	µg/L
Copper	9.3				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	6.7				0	GE	25				0	GE	µg/L
Tin	<2.0				0	GE	2.5				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	25		■		0	GE	77		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	4,700		■		2	GE	3,900		■		2	GE	µg/L
Nitrate as nitrogen	15,000		■		2	GE	15,000		■		2	GE	µg/L
pH	4.2	J	■	●	0	GE	4.3	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB104D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	4.7E+01		■		2	GE	1.8E+01		■		2	GE	pCi/L
Nonvolatile beta	2.2E+03		■		2	GE	2.0E+03		■		2	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	4.1E+01				0	GP	4.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	3.1E+00		■		2	GP	2.1E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	6.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	9.4E+00				0	GP	1.0E+00 R				0	GP	pCi/L
Strontium-89	1.2E+03		■		2	GP	2.4E+02		■		2	GP	pCi/L
Strontium-90	5.3E+02		■		2	GP	8.9E+02		■		2	GP	pCi/L
Technetium-99	2.4E+03		■		2	GP	2.8E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.0E+03		■		2	GE	8.8E+02		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	1.2E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	4.1E+01	C		1		4.0E+01	C		1		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB105C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71447.3 E57883.8	33.278237 °N 81.653166 °W	162.2-152.2 ft msl	249.5 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/11/93

04/05/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	5.8	6	pH
Sp. conductance	82	84	µS/cm
Water temperature	18.3	18.4	°C
Alkalinity as CaCO ₃	14	13	mg/L
Volume purged	5.0	9.7	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Barium	6.2				0	GE	5.7				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050	J6		•	0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	3.1				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	17				0	GE	12				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	50				1	GE	<20				0	GE	µg/L
Nitrate as nitrogen	3,400				0	GE	3,800				0	GE	µg/L
pH	5.8	J	■	•	0	GE	6.2	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	2.1				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB105C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.7E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	2.2E+00				0	GP	pCi/L
Radium-228	1.7E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	1.1E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	9.1E+01		■		2	GE	9.6E+01		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB105D

<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>
N71454.8 E57877.4	33.278244 °N 81.653197 °W	231.8-211.8 ft msl	249.5 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/13/93

05/03/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	4	4	pH
Sp. conductance	280	295	µS/cm
Water temperature	20.9	19.9	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.7	3.1	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	62				0	GE	54				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050	J		•	0	GE	<0.0050	J			0	GE	µg/L
Mercury	4.1		■		2	GE	3.7		■		2	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	9.5				0	GE	8.5				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0	J		•	0	GE	<10				0	GE	µg/L
Nickel	7.8				0	GE	7.2				0	GE	µg/L
Tin	<2.0				0	GE	2.6				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	42		■		0	GE	50		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	5,100		■		2	GE	5,300		■		2	GE	µg/L
Nitrate as nitrogen	30,000		■		2	GE	33,000		■		2	GE	µg/L
pH	4.0	J	■	•	0	GE	4.1	J	■	•	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB105D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	2.8E+01		■		2	GE	3.5E+03		■		2	GE	pCi/L
Nonvolatile beta	3.1E+03		■		2	GE	1.4E+03		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	3.1E+01				0	GP	3.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	1.6E+01		■		2	GP	5.8E+00		■		2	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	8.6E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	5.8E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	2.5E+02		■		2	GP	5.0E+02		■		2	GP	pCi/L
Strontium-90	9.6E+02		■		2	GP	5.1E+02		■		2	GP	pCi/L
Technetium-99	1.2E+04		■		2	GP	7.0E+03		■		2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	1.7E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	4.9E+03		■		2	GE	3.0E+03		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	1.4E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C			0	< 3.0E-03	C			0	pCi/L
Nickel-63	3.1E+01	C			1	3.0E+01	C			1	pCi/L
Plutonium-241	< 4.0E+00	C			0	< 4.0E+00	C			0	pCi/L
Plutonium-242	< 2.0E-05	C			0	< 2.0E-05	C			0	pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB106C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71720.9 E57651.5	33.278464 °N 81.654309 °W	168.7-158.7 ft msl	252.9 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/14/93

04/06/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	5.7	5.9	pH
Sp. conductance	92	92	µS/cm
Water temperature	19	18.9	°C
Alkalinity as CaCO ₃	4	4	mg/L
Volume purged	6.0	5.2	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	16				0	GE	17				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	0.74				0	GE	0.73				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	< 2.0				0	GE	< 2.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	7.2				0	GE	6.8				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	< 20				0	GE	< 20				0	GE	µg/L
Nitrate as nitrogen	7,900				1	GE	8,400				1	GE	µg/L
pH	5.8	J	■	●	0	GE	5.9	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0	JV			0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB106C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	2.3E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.7E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP							pCi/L
Cobalt-60	< 1.0E+01				0	GP							pCi/L
Curium-242	< 1.0E+00				0	GP							pCi/L
Curium-243/244	< 1.0E+00				0	GP							pCi/L
Curium-245/246	< 1.0E+00				0	GP							pCi/L
Iodine-129	< 2.0E+00				0	GP							pCi/L
Plutonium-238	< 1.0E+00				0	GP							pCi/L
Plutonium-239/240	< 1.0E+00				0	GP							pCi/L
Radium-226	< 1.0E+00				0	GP							pCi/L
Radium-228	1.1E+00				0	GP							pCi/L
Strontium-89	2.0E+00				0	GP							pCi/L
Strontium-90	6.1E+00				1	GP							pCi/L
Technetium-99	6.7E+02				1	GP							pCi/L
Thorium-228	< 1.0E+00				0	GP							pCi/L
Thorium-230	1.0E+00				0	GP							pCi/L
Thorium-232	< 1.0E+00				0	GP							pCi/L
Thorium-234													pCi/L
Tritium	3.1E+02		■		2	GE	3.0E+02		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP							pCi/L
Uranium-235	< 1.0E+00				0	GP							pCi/L
Uranium-238	< 1.0E+00				0	GP							pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB106D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71727.8 E57644.8	33.278468 °N 81.65434 °W	230.7-210.7 ft msl	252.9 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 02/23/93

04/06/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	4.5	4.6	pH
Sp. conductance	102	93	µS/cm
Water temperature	20.3	19.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.4	3.4	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	18				0	GE	15				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	3.2				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.46	J		•	0	GE	0.36				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	11				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	4.5				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	12	J2			0	GE	19				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	560		■		2	GE	430		■		2	GE	µg/L
Nitrate as nitrogen	9,500				1	GE	7,600				1	GE	µg/L
pH	4.3	J	■	•	0	GE	4.4	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB106D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	5.2E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.9E+02		■		2	GE	2.0E+02		■		2	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00	Y			0	CN							pCi/L
Cobalt-60	< 1.2E+01	Y			0	CN							pCi/L
Curium-242	< 1.0E+00	Y			0	CN							pCi/L
Curium-243/244	< 1.0E+00	Y			0	CN							pCi/L
Curium-245/246													
Iodine-129	< 2.0E+00				0	CN							pCi/L
Plutonium-238	< 1.0E+00	Y			0	CN							pCi/L
Plutonium-239/240	< 1.0E+00	Y			0	CN							pCi/L
Radium-226	< 1.0E+00	Y			0	CN							pCi/L
Radium-228	5.6E+01	Y	■		2	CN							pCi/L
Strontium-89	9.0E+00	Y			0	CN							pCi/L
Strontium-90	1.4E+02	Y	■		2	CN							pCi/L
Technetium-99	5.5E+02				1	CN							pCi/L
Thorium-228	< 1.6E+00	Y3			0	CN							pCi/L
Thorium-230	2.6E+00	Y			0	CN							pCi/L
Thorium-232	< 1.6E+00	Y3			0	CN							pCi/L
Thorium-234													
Tritium	7.3E+02		■		2	GE	4.9E+02		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00	Y			0	CN							pCi/L
Uranium-235	< 1.0E+00	Y			0	CN							pCi/L
Uranium-238	< 1.0E+00	Y			0	CN							pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.2E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB107C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71698.5 E57432.0	33.278056 °N 81.654844 °W	169.3-159.3 ft msl	261.6 ft msl	4" PVC	S	Barnwell (IIB,)

SAMPLE DATE 01/11/93

04/05/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	6.9	7.2	pH
Sp. conductance	160	159	µS/cm
Water temperature	19.7	20	°C
Alkalinity as CaCO ₃	42	37	mg/L
Volume purged	2.6	2.6	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0	J1			0	GE	< 2.0				0	GE	µg/L
Barium	41				0	GE	41				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050	J			0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0				0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	8.2				0	GE	5.9				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	5.6				0	GE	6.6				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	46				1	GE	30				1	GE	µg/L
Nitrate as nitrogen	4,600				0	GE	5,400				1	GE	µg/L
pH	7.5	J			0	GE	7.0	J			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.5	JV			0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB107C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	2.6E+00				0	GE	pCi/L
Nonvolatile beta	1.6E+01				0	GE	9.8E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	2.6E+00				0	GP	pCi/L
Technetium-99	8.5E+02				1	GP	2.2E+03		■		2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	4.0E+02		■		2	GE	3.4E+02		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB107D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71698.6 E57412.2	33.278019 °N 81.654892 °W	235.1-215.1 ft msl	262.3 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/13/93

05/03/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	5.2	4.8	pH
Sp. conductance	216	212	µS/cm
Water temperature	20.9	20.2	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	3.0	2.7	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	61				0	GE	47				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050	J		•	0	GE	<0.0050	J			0	GE	µg/L
Mercury	3.0		■		2	GE	3.2		■		2	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	5.5				0	GE	3.7				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	9.8				0	GE	9.4				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	110		■		2	GE	110		■		2	GE	µg/L
Nitrate as nitrogen	24,000		■		2	GE	25,000		■		2	GE	µg/L
pH	5.3	J	■	•	0	GE	5.0	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.4	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB107D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	7.8E+00				1	GE	4.1E+03		■		2	GE	pCi/L
Nonvolatile beta	2.6E+03		■		2	GE	1.7E+03		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	2.3E+01				0	GP	2.2E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	1.2E+00				0	GP	pCi/L
Iodine-129	5.9E+00		■		2	GP	5.9E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	3.3E+00				0	GP	6.8E+00				0	GP	pCi/L
Radium-228	2.8E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	6.7E+02		■		2	GP	1.8E+02		■		2	GP	pCi/L
Strontium-90	6.3E+02		■		2	GP	1.0E+03		■		2	GP	pCi/L
Technetium-99	9.1E+03		■		2	GP	5.6E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	3.1E+03		■		2	GE	2.4E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	2.3E+01	C		0		2.2E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB108C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71688.7 E57155.5	33.277583 °N 81.655553 °W	196.0-186.0 ft msl	266.2 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/13/93

04/05/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	6.9	7.3	pH
Sp. conductance	154	167	µS/cm
Water temperature	20.5	20	°C
Alkalinity as CaCO ₃	40	38	mg/L
Volume purged	4.1	4.3	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	7.9				0	GE	9.2				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050	J		●	0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0				0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	< 2.0				0	GE	2.8				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	7.4				0	GE	5.5				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	24				0	GE	< 20				0	GE	µg/L
Nitrate as nitrogen	2,200				0	GE	2,400				0	GE	µg/L
pH	6.9	J		●	0	GE	7.3	J		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0	JV			0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB108C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	<2.0E+00				0	GE	<2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.8E+00				0	GE	3.8E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	1.7E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	<2.0E+00				0	GP	2.8E+00				0	GP	pCi/L
Technetium-99	6.4E+02				1	GP	1.2E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	3.0E+02		■		2	GE	2.8E+02		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB108D

<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>
N71688.0	33.277566 °N	232.0-212.0 ft msl	266.3 ft msl	4" PVC	V	Water table (IB ₂)
E57145.6	81.655577 °W					

SAMPLE DATE 01/13/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220		ft msl
pH	4.4		pH
Sp. conductance	191		µS/cm
Water temperature	21		°C
Alkalinity as CaCO ₃	0		mg/L
Volume purged	3.8		well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	< 2.0				0	GE							µg/L
Barium	57				0	GE							µg/L
Cadmium	< 2.0				0	GE							µg/L
Chromium	< 4.0				0	GE							µg/L
Lead	< 3.0				0	GE							µg/L
Lindane	< 0.0050	J		●	0	GE							µg/L
Mercury	3.5		■		2	GE							µg/L
Selenium	< 2.0	J1			0	GE							µg/L
Silver	< 2.0				0	GE							µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	2.5				0	GE							µg/L
Benzene	< 1.0				0	GE							µg/L
Cobalt	7.5				0	GE							µg/L
Copper	< 4.0				0	GE							µg/L
Cyanide	< 5.0				0	GE							µg/L
Nickel	14				0	GE							µg/L
Tin	3.2				0	GE							µg/L
Trichloroethylene	< 1.0				0	GE							µg/L
Trichlorofluoromethane	< 1.0				0	GE							µg/L
Vanadium	< 8.0				0	GE							µg/L
Zinc	34		■		0	GE							µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	1,600		■		2	GE							µg/L
Nitrate as nitrogen	20,000		■		2	GE							µg/L
pH	4.4	J	■	●	0	GE							pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0	JV			0	GE							µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB108D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	3.4E +01		■		2	GE							pCi/L
Nonvolatile beta	3.2E +03		■		2	GE							pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E +00				0	GP							pCi/L
Cobalt-60	8.5E +01				1	GP							pCi/L
Curium-242	< 1.0E +00				0	GP							pCi/L
Curium-243/244	< 1.0E +00				0	GP							pCi/L
Curium-245/246	< 1.0E +00				0	GP							pCi/L
Iodine-129	7.6E +00		■		2	GP							pCi/L
Plutonium-238	< 1.0E +00				0	GP							pCi/L
Plutonium-239/240	< 1.0E +00				0	GP							pCi/L
Radium-226	1.1E +01				1	GP							pCi/L
Radium-228	5.8E +00				0	GP							pCi/L
Strontium-89	8.9E +02		■		2	GP							pCi/L
Strontium-90	1.0E +03		■		2	GP							pCi/L
Technetium-99	3.8E +03		■		2	GP							pCi/L
Thorium-228	< 1.0E +00				0	GP							pCi/L
Thorium-230	< 1.0E +00				0	GP							pCi/L
Thorium-232	< 1.0E +00				0	GP							pCi/L
Thorium-234													
Tritium	2.0E +03		■		2	GE							pCi/mL
Uranium-233/234	< 1.0E +00				0	GP							pCi/L
Uranium-235	< 1.0E +00				0	GP							pCi/L
Uranium-238	< 1.0E +00				0	GP							pCi/L

Calculated Radionuclides

<u>Parameter</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E -03	C			0						0		pCi/L
Nickel-63	8.5E +01	C	■		2						0		pCi/L
Plutonium-241	< 4.0E +00	C			0						0		pCi/L
Plutonium-242	< 2.0E -05	C			0						0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB109C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71684.8 E56895.6	33.277151 °N 81.656229 °W	178.4-188.4 ft msl	261.6 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/11/93

04/05/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	6.1	6.3	pH
Sp. conductance	54	59	µS/cm
Water temperature	19.6	19.4	°C
Alkalinity as CaCO ₃	11	9	mg/L
Volume purged	2.7	2.7	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Barium	7.2				0	GE	7.3				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050	J6		•	0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.6				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	8.1				0	GE	5.3				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	1,400				0	GE	1,500				0	GE	µg/L
pH	6.1	J	■	•	0	GE	6.4	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	1.9				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB109C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	2.3E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	6.4E+01		■		2	GE	6.5E+01		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB109D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71685.6 E56885.5	33.277136 °N 81.656257 °W	233.0-213.0 ft msl	261.2 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/11/93

04/05/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	230	ft msl
pH	4.2	4.4	pH
Sp. conductance	78	75	µS/cm
Water temperature	20	19.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.9	3.7	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Barium	59				0	GE	52				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050	J		●	0	GE	µg/L
Mercury	0.53				0	GE	1.1				1	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	5.1				0	GE	6.5				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	25		■		0	GE	24		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	810		■		2	GE	670		■		2	GE	µg/L
Nitrate as nitrogen	4,900				0	GE	5,700				1	GE	µg/L
pH	4.3	J	■	●	0	GE	4.5	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.3	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB109D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	4.4E+00				0	GE	1.0E+01				1	GE	pCi/L
Nonvolatile beta	9.6E+02		■		2	GE	8.3E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	1.6E+01				0	GP	1.7E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	4.0E+00		■		2	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	5.4E+00				0	GP	4.0E+00				0	GP	pCi/L
Strontium-89	3.5E+01		■		2	GP	5.7E+01		■		2	GP	pCi/L
Strontium-90	6.7E+02		■		2	GP	3.7E+02		■		2	GP	pCi/L
Technetium-99	4.0E+02				0	GP	1.7E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	2.0E+02		■		2	GE	2.5E+02		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	1.6E+01	C		0		1.7E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB110C

<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>
N71779.3 E56680.7	33.277009 °N 81.656979 °W	181.4-171.4 ft msl	255.7 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/15/93

04/06/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	5.1	5.9	pH
Sp. conductance	27	26	µS/cm
Water temperature	19.3	19.2	°C
Alkalinity as CaCO ₃	1	1	mg/L
Volume purged	2.5	3.3	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	5.5				0	GE	4.9				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	13				0	GE	9.7				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	53		■		2	GE	46				1	GE	µg/L
Nitrate as nitrogen	730				0	GE	780				0	GE	µg/L
pH	5.7	J	■	●	0	GE	5.7	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB110C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	2.6E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	4.4E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	2.9E+01				2	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	1.1E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.7E+01				2	GE	2.5E+01				2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB110D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71785.2 E56672.1	33.277008 °N 81.657013 °W	231.4-211.4 ft msl	255.6 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/15/93

04/06/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	5.3	5.9	pH
Sp. conductance	55	55	µS/cm
Water temperature	18.9	18.9	°C
Alkalinity as CaCO ₃	4	4	mg/L
Volume purged	3.5	3.7	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	4.3				0	GE	3.9				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	6.4				0	GE	7.2				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	6.8				0	GE	6.7				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	120		■		2	GE	210		■		2	GE	µg/L
Nitrate as nitrogen	2,800				0	GE	2,500				0	GE	µg/L
pH	5.7	J	■	●	0	GE	6.0	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB110D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	2.5E+00				0	GE	pCi/L
Nonvolatile beta	5.8E+01		■		2	GE	7.4E+01		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	2.8E+00				0	GP	pCi/L
Radium-228	2.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	2.4E+01		■		2	GP	1.2E+01				1	GP	pCi/L
Strontium-90	1.3E+01		■		2	GP	4.0E+01		■		2	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	3.2E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.3E+01		■		2	GE	2.4E+01		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB111C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71919.4 E56501.9	33.277027 °N 81.857722 °W	150.7-140.7 ft msl	256 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/14/93

04/06/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	4.8	5.3	pH
Sp. conductance	213	198	µS/cm
Water temperature	19.5	19.8	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	3.4	3.4	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	22				0	GE	19				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	5.1				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	30		■		0	GE	30		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	190		■		2	GE	180		■		2	GE	µg/L
Nitrate as nitrogen	20,000		■		2	GE	21,000		■		2	GE	µg/L
pH	5.2	J	■	●	0	GE	5.3	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	1.3				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB111C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab
Gross alpha	3.5E+00				0	GE
Nonvolatile beta	4.2E+01				1	GE

2Q93	Mod	GP	H	Flag	Lab	Unit
3.8E+00				0	GE	pCi/L
4.8E+01				1	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab
Americium-241	<1.0E+00				0	GP
Cobalt-60	<1.0E+01				0	GP
Curium-242	<1.0E+00				0	GP
Curium-243/244	<1.0E+00				0	GP
Curium-245/246	<1.0E+00				0	GP
Iodine-129	<2.0E+00				0	GP
Plutonium-238	<1.0E+00				0	GP
Plutonium-239/240	<1.0E+00				0	GP
Radium-226	1.6E+00				0	GP
Radium-228	<1.0E+00				0	GP
Strontium-89	<2.0E+00				0	GP
Strontium-90	<2.0E+00				0	GP
Technetium-99	5.8E+03		■		2	GP
Thorium-228	<1.0E+00				0	GP
Thorium-230	1.1E+00				0	GP
Thorium-232	<1.0E+00				0	GP
Thorium-234						
Tritium	2.8E+03		■		2	GE
Uranium-233/234	<1.0E+00				0	GP
Uranium-235	<1.0E+00				0	GP
Uranium-238	<1.0E+00				0	GP

2Q93	Mod	GP	H	Flag	Lab	Unit
<1.0E+00				0	GP	pCi/L
<1.0E+01				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<2.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<2.0E+00				0	GP	pCi/L
<2.0E+00				0	GP	pCi/L
<2.0E+00				0	GP	pCi/L
5.0E+03		■		2	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<3.5E+02				0	GP	pCi/L
2.8E+03		■		2	GE	pCi/mL
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter		Mod	GP	H	Flag	Lab
Americium-243	<3.0E-03	C			0	
Nickel-63	<1.0E+01	C			0	
Plutonium-241	<4.0E+00	C			0	
Plutonium-242	<2.0E-05	C			0	

	Mod	GP	H	Flag	Lab	Unit
<3.0E-03	C			0		pCi/L
<1.0E+01	C			0		pCi/L
<4.0E+00	C			0		pCi/L
<2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB111D

<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>
N71926.2 E56494.5	33.27703 °N 81.657754 °W	195.7-185.7 ft msl	256 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/14/93

04/06/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	4.9	5.3	pH
Sp. conductance	472	429	µS/cm
Water temperature	19.8	19.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.2	2.7	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	44				0	GE	34				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	14				0	GE	11				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	260		■		2	GE	190		■		2	GE	µg/L
Nitrate as nitrogen	59,000		■		2	GE	51,000		■		2	GE	µg/L
pH	5.2	J	■	●	0	GE	5.4	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB111D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	1.1E+01				1	GE	1.5E+01				1	GE	pCi/L
Nonvolatile beta	6.9E+01		■		2	GE	1.0E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	6.7E+00		■		2	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	5.9E+00				0	GP	2.3E+00				0	GP	pCi/L
Radium-228	1.1E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	7.4E+00				1	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	2.0E+04		■		2	GP	2.0E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GF	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.1E+04		■		2	GE	1.0E+04		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB111E

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71932.8 E58487.2	33.277033 °N 81.657786 °W	231.7-211.7 ft msl	255.9 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/14/93

04/06/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	4.4	4.6	pH
Sp. conductance	56	52	µS/cm
Water temperature	20.8	20.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.7	3.0	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	7.0				0	GE	5.4				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	5.4				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	7.6				0	GE	7.9				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	420		■		2	GE	340		■		2	GE	µg/L
Nitrate as nitrogen	3,500				0	GE	2,800				0	GE	µg/L
pH	4.5	J	■	●	0	GE	4.6	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB111E (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	4.4E+00				0	GE	6.4E+00				0	GE	pCi/L
Nonvolatile beta	2.4E+02		■		2	GE	1.6E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	1.5E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	1.3E+00				0	GP	5.2E+00				0	GP	pCi/L
Radium-228	1.5E+00				0	GP	6.5E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	1.3E+01				1	GP	pCi/L
Strontium-90	1.1E+02		■		2	GP	8.5E+01		■		2	GP	pCi/L
Technetium-99	6.6E+03		■		2	GP	8.1E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	2.9E+03		■		2	GE	4.3E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	1.5E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB112C

<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>
N72156.4 E56417.4	33.277413 °N 81.658404 °W	150.6-140.6 ft msl	254.9 ft msl	4" PVC	S	Barnwell (IIB,)

SAMPLE DATE 01/17/93

04/07/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	6	6.4	pH
Sp. conductance	162	171	µS/cm
Water temperature	19.8	19.7	°C
Alkalinity as CaCO ₃	15	14	mg/L
Volume purged	3.4	3.9	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	28				0	GE	27				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	5.2				0	GE	µg/L
Tin	<2.0				0	GE	2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	25		■		0	GE	26		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	120		■		2	GE	95		■		2	GE	µg/L
Nitrate as nitrogen	13,000		■		2	GE	14,000		■		2	GE	µg/L
pH	6.5	J	■	●	0	GE	6.4	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0	JV			0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB112C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	3.5E+00				0	GE	3.1E+00				0	GE	pCi/L
Nonvolatile beta	3.5E+01				1	GE	2.3E+01				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP							pCi/L
Cobalt-60	< 1.0E+01				0	GP							pCi/L
Curium-242	< 1.0E+00				0	GP							pCi/L
Curium-243/244	< 1.0E+00				0	GP							pCi/L
Curium-245/246	< 1.0E+00				0	GP							pCi/L
Iodine-129	< 2.0E+00				0	GP							pCi/L
Plutonium-238	< 1.0E+00				0	GP							pCi/L
Plutonium-239/240	< 1.0E+00				0	GP							pCi/L
Radium-226	< 1.0E+00				0	GP							pCi/L
Radium-228	1.8E+00				0	GP							pCi/L
Strontium-89	< 2.0E+00				0	GP							pCi/L
Strontium-90	< 2.0E+00				0	GP							pCi/L
Technetium-99	4.0E+03	■			2	GP							pCi/L
Thorium-228	< 1.0E+00				0	GP							pCi/L
Thorium-230	< 1.0E+00				0	GP							pCi/L
Thorium-232	< 1.0E+00				0	GP							pCi/L
Thorium-234													
Tritium	1.8E+03	■			2	GE	1.7E+03	■			2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP							pCi/L
Uranium-235	< 1.0E+00				0	GP							pCi/L
Uranium-238	< 1.0E+00				0	GP							pCi/L

Calculated Radionuclides

<u>Parameter</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C			0						0		pCi/L
Nickel-63	< 1.0E+01	C			0						0		pCi/L
Plutonium-241	< 4.0E+00	C			0						0		pCi/L
Plutonium-242	< 2.0E-05	C			0						0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB112D

<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>
N72161.6 E56408.1	33.27741 °N 81.858439 °W	198.3-188.3 ft msl	255.1 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/17/93

04/07/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft msl
pH	4.9	5.2	pH
Sp. conductance	367	359	µS/cm
Water temperature	20.1	19.5	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.4	3.9	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	12				0	GE	12				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	2.8				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	4.3				0	GE	4.8				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	90		■		2	GE	83		■		2	GE	µg/L
Nitrate as nitrogen	46,000		■		2	GE	38,000		■		2	GE	µg/L
pH	5.0	J	■	•	0	GE	5.7	J	■	•	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB112D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	7.3E+00				0	GE	5.5E+00				0	GE	pCi/L
Nonvolatile beta	5.3E+01		■		2	GE	4.1E+01				1	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/248	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	9.7E+00		■		2	GP	7.0E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	3.4E+00				0	GP	3.0E+00				0	GP	pCi/L
Radium-228	2.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	7.5E+00				1	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	2.5E+04		■		2	GP	2.1E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.2E+04		■		2	GE	1.0E+04		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB112E

<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>
N72166.6 E56399.5	33.277407 °N 81.658471 °W	231.7-211.7 ft msl	255.1 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/18/93

04/07/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft msl
pH	4.8	5.1	pH
Sp. conductance	315	220	µS/cm
Water temperature	17	17.8	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	1.2	1.1	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	46				0	GE	40				0	GE	µg/L
Cadmium	2.1				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	3.8				0	GE	4.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	17				0	GE	12				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	16				0	GE	18				0	GE	µg/L
Tin	4.8				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	26		■		0	GE	28		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	330		■		2	GE	240		■		2	GE	µg/L
Nitrate as nitrogen	34,000		■		2	GE	21,000		■		2	GE	µg/L
pH	5.3	J	■	●	0	GE	5.1	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB112E (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	6.6E+00				0	GE	9.5E+00				1	GE	pCi/L
Nonvolatile beta	2.0E+02		■		2	GE	1.4E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	5.5E+00		■		2	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	2.0E+00				0	GP	1.3E+01				1	GP	pCi/L
Radium-228	2.2E+00				0	GP	4.1E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	1.7E+01				1	GP	pCi/L
Strontium-90	1.4E+02		■		2	GP	8.5E+01		■		2	GP	pCi/L
Technetium-99	1.1E+04		■		2	GP	7.7E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	6.5E+03		■		2	GE	3.8E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB113C

<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>
N72312.3 E56160.4	33.277339 °N 81.659384 °W	161.7-161.7 ft msl	261 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/14/93

04/12/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft msl
pH	4.9	5.4	pH
Sp. conductance	155	156	µS/cm
Water temperature	20.2	21	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	3.0	2.4	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	39				0	GE	37				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	4.2				0	GE	5.9				0	GE	µg/L
Tin	2.1				0	GE	3.7				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	30				0	GE	37				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	160				2	GE	170				2	GE	µg/L
Nitrate as nitrogen	16,000				2	GE	15,000				2	GE	µg/L
pH	5.6	J			0	GE	5.6	J			0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB113C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	4.0E+00				0	GE	6.8E+00				0	GE	pCi/L
Nonvolatile beta	4.6E+01				1	GE	2.4E+01				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	1.1E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	4.1E+00				1	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	3.1E+03	■			2	GP	3.8E+03	■			2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	1.2E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.5E+03	■			2	GE	1.5E+03	■			2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB113D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72302.7 E56164.3	33.277324 °N 81.659355 °W	236.2-216.2 ft msl	260.9 ft msl	4" PVC	V	Water table (IIB ₁)

SAMPLE DATE 01/14/93

04/12/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	230	ft msl
pH	3.7	3.9	pH
Sp. conductance	352	393	µS/cm
Water temperature	21.3	20.9	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	4.0	3.5	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	110				0	GE	120				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	3.2				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	0.43				0	GE	0.28				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0				0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	11				0	GE	9.5				0	GE	µg/L
Copper	5.4				0	GE	5.1				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 2.5	J		•	0	GE	µg/L
Nickel	13				0	GE	15				0	GE	µg/L
Tin	2.6				0	GE	5.3				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	64		■		0	GE	77		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	7,400		■		2	GE	8,200		■		2	GE	µg/L
Nitrate as nitrogen	34,000		■		2	GE	38,000		■		2	GE	µg/L
pH	3.8	J	■	•	1	GE	3.8	J	■	•	1	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.9	JV			0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB113D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab
Gross alpha	4.0E+01		■		2	GE
Nonvolatile beta	3.1E+03		■		2	GE

2Q93	Mod	GP	H	Flag	Lab	Unit
7.3E+01		■		2	GE	pCi/L
2.9E+03		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab
Americium-241	< 1.0E+00				0	GP
Cobalt-60	1.5E+02		■		2	GP
Curium-242	< 1.0E+00				0	GP
Curium-243/244	2.2E+00				0	GP
Curium-245/246	< 1.0E+00				0	GP
Iodine-129	2.7E+01		■		2	GP
Plutonium-238	< 1.0E+00				0	GP
Plutonium-239/240	< 1.0E+00				0	GP
Radium-226	1.4E+01				1	GP
Radium-228	7.0E+00				0	GP
Strontium-89	2.5E+02		■		2	GP
Strontium-90	1.4E+03		■		2	GP
Technetium-99	1.2E+04		■		2	GP
Thorium-228	< 1.0E+00				0	GP
Thorium-230	1.4E+00				0	GP
Thorium-232	< 1.0E+00				0	GP
Thorium-234						
Tritium	5.2E+03		■		2	GE
Uranium-233/234	1.8E+00				0	GP
Uranium-235	< 1.0E+00				0	GP
Uranium-238	< 1.0E+00				0	GP

2Q93	Mod	GP	H	Flag	Lab	Unit
< 1.0E+00				0	GP	pCi/L
1.6E+02		■		2	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
2.9E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
3.1E+01		■		2	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
5.0E+00				0	GP	pCi/L
5.3E+00				0	GP	pCi/L
1.6E+02		■		2	GP	pCi/L
1.1E+03		■		2	GP	pCi/L
1.6E+04		■		2	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 3.5E+02				0	GP	pCi/L
7.8E+03		■		2	GE	pCi/mL
1.8E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
1.1E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab
Americium-243	6.6E-03	C			0
Nickel-63	1.5E+02	C	■		2
Plutonium-241	< 4.0E+00	C			0
Plutonium-242	< 2.0E-05	C			0

Mod	GP	H	Flag	Lab	Unit
8.7E-03	C			0	pCi/L
1.6E+02	C	■		2	pCi/L
< 4.0E+00	C			0	pCi/L
< 2.0E-05	C			0	pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB114C

<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>
N72484.6 E56107.0	33.277589 °N 81.85982 °W	195.6-185.6 ft msl	263.8 ft msl	4" PVC	V	Barnwell (IIB ₁)

SAMPLE DATE 01/17/93

04/12/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	4.4	4.6	pH
Sp. conductance	488	510	µS/cm
Water temperature	21.7	20.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.2	2.6	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	99				0	GE	85				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	0.45				0	GE	0.41				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	6.8				0	GE	6.2				0	GE	µg/L
Copper	4.2				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	14				0	GE	11				0	GE	µg/L
Tin	3.8				0	GE	3.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	48		■		0	GE	41		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	670		■		2	GE	510		■		2	GE	µg/L
Nitrate as nitrogen	63,000		■		2	GE	57,000		■		2	GE	µg/L
pH	4.4	J	■	●	0	GE	4.2	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB114C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	3.0E+01		■		2	GE	3.3E+01		■		2	GE	pCi/L
Nonvolatile beta	1.8E+02		■		2	GE	1.3E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	6.1E+00		■		2	GP	4.0E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	1.6E+00				0	GP	1.4E+01			1	GP	pCi/L	
Radium-228	4.6E+00				0	GP	2.4E+00			0	GP	pCi/L	
Strontium-89	<2.0E+00				0	GP	<2.0E+00			0	GP	pCi/L	
Strontium-90	<2.0E+00				0	GP	<2.0E+00			0	GP	pCi/L	
Technetium-99	2.7E+04		■		2	GP	2.3E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00			0	GP	pCi/L	
Thorium-230	<1.0E+00				0	GP	<1.0E+00			0	GP	pCi/L	
Thorium-232	<1.0E+00				0	GP	<1.0E+00			0	GP	pCi/L	
Thorium-234							<3.5E+02			0	GP	pCi/L	
Tritium	1.2E+04		■		2	GE	1.2E+04		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00			0	GP	pCi/L	
Uranium-235	<1.0E+00				0	GP	<1.0E+00			0	GP	pCi/L	
Uranium-238	<1.0E+00				0	GP	<1.0E+00			0	GP	pCi/L	

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB114D

<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>
N72474.2 E56104.6	33.277606 °N 81.659845 °W	232.8-212.8 ft msl	264 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/17/93

04/12/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	3.8	4.1	pH
Sp. conductance	270	369	µS/cm
Water temperature	21.7	21	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.5	2.7	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	66				0	GE	89				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	14				1	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	21				1	GE	26				1	GE	µg/L
Copper	8.6				0	GE	6.3				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	25				0	GE	30				0	GE	µg/L
Tin	<2.0				0	GE	2.3				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	82		■		0	GE	75		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	5,900		■		2	GE	5,700		■		2	GE	µg/L
Nitrate as nitrogen	27,000		■		2	GE	35,000		■		2	GE	µg/L
pH	4.2	J	■	●	0	GE	4.1	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB114D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	5.0E+01		■		2	GE	6.3E+01		■		2	GE	pCi/L
Nonvolatile beta	2.5E+03		■		2	GE	2.2E+03		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	1.2E+02		■		2	GP	1.2E+02		■		2	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	1.1E+02		■		2	GP	4.8E+01		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	6.9E+00				0	GP	3.0E+01		■		2	GP	pCi/L
Radium-228	9.8E+00				0	GP	1.0E+01				1	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	1.8E+02		■		2	GP	pCi/L
Strontium-90	8.7E+02		■		2	GP	9.1E+02		■		2	GP	pCi/L
Technetium-99	7.2E+03		■		2	GP	2.0E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	3.1E+03		■		2	GE	9.3E+03		■		2	GE	pCi/mL
Uranium-233/234	1.6E+00				0	GP	1.7E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	1.2E+02	C	■	2		1.2E+02	C	■	2		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB115C

<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>
N72853.2 E56043.2	33.277902 °N 81.660355 °W	192.8-182.8 ft msl	269.3 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/17/93

04/12/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	6.4	6.7	pH
Sp. conductance	413	425	µS/cm
Water temperature	21.2	21	°C
Alkalinity as CaCO ₃	12	10	mg/L
Volume purged	3.7	3.4	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	54				0	GE	51				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	7.2				0	GE	7.3				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	240		■		2	GE	240		■		2	GE	µg/L
Nitrate as nitrogen	48,000		■		2	GE	44,000		■		2	GE	µg/L
pH	6.5	J	■	●	0	GE	6.6	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB115C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	1.8E+01		■		2	GE	1.8E+01		■		2	GE	pCi/L
Nonvolatile beta	1.1E+02		■		2	GE	8.2E+01		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	7.9E+00		■		2	GP	9.1E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	3.4E+00				0	GP	7.3E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	3.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	1.1E+01		■		2	GP	8.5E+00		■		2	GP	pCi/L
Technetium-99	2.8E+04		■		2	GP	3.1E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.3E+04		■		2	GE	1.3E+04		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB115D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72862.3 E56039.8	33.277916 °N 81.660381 °W	233.9-213.9 ft msl	269.1 ft msl	4" PVC	S	Water table (IB ₂)

SAMPLE DATE 01/18/93

04/13/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	3.8	3.9	pH
Sp. conductance	305	360	µS/cm
Water temperature	17.6	19.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	0.49	0.65	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	190				0	GE	170				0	GE	µg/L
Cadmium	3.4				1	GE	4.8				1	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	43				2	GE	27				2	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	52				2	GE	49				2	GE	µg/L
Copper	18				0	GE	17				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	44				0	GE	51		■		1	GE	µg/L
Tin	5.2				0	GE	3.8				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	140		■		0	GE	110		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	4,800		■		2	GE	4,000		■		2	GE	µg/L
Nitrate as nitrogen	34,000		■		2	GE	37,000		■		2	GE	µg/L
pH	4.0	J	■	●	1	GE	4.1	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB115D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	5.6E+01		■		2	GE	4.7E+01		■		2	GE	pCi/L
Nonvolatile beta	3.1E+03		■		2	GE	2.2E+03		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	9.3E+01				1	GP	1.5E+02		■		2	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	4.7E+00		■		2	GP	2.2E+01		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	2.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	3.1E+00				0	GP	4.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	2.0E+02		■		2	GP	pCi/L
Strontium-90	9.9E+02		■		2	GP	1.2E+03		■		2	GP	pCi/L
Technetium-99	1.8E+04		■		2	GP	2.5E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	7.4E+03		■		2	GE	1.0E+04		■		2	GE	pCi/mL
Uranium-233/234	1.3E+00				0	GP	1.8E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	1.1E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C			0	<3.0E-03	C			0	pCi/L
Nickel-63	9.3E+01	C	■		2	1.5E+02	C	■		2	pCi/L
Plutonium-241	<4.0E+00	C			0	<4.0E+00	C			0	pCi/L
Plutonium-242	<2.0E-05	C			0	<2.0E-05	C			0	pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB116C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72888.1 E55989.1	33.278333 °N 81.660953 °W	190.5-180.5 ft msl	257.5 ft msl	4" PVC	V	Barnwell (H.B.)

SAMPLE DATE 01/18/93

04/12/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	5.1	5.2	pH
Sp. conductance	468	462	µS/cm
Water temperature	21.2	20.5	°C
Alkalinity as CaCO ₃	1	0	mg/L
Volume purged	2.3	2.3	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	78				0	GE	69				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	0.81				0	GE	1.2				1	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	64				2	GE	53				2	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10	J		•	0	GE	µg/L
Nickel	9.1				0	GE	7.8				0	GE	µg/L
Tin	3.6				0	GE	2.8				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	1.5				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	14				0	GE	12				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	170		■		2	GE	160		■		2	GE	µg/L
Nitrate as nitrogen	61,000		■		2	GE	52,000		■		2	GE	µg/L
pH	5.2	J	■	•	0	GE	5.3	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB116C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab
Gross alpha	1.1E+01				1	GE
Nonvolatile beta	6.8E+01		■		2	GE

2Q93	Mod	GP	H	Flag	Lab	Unit
1.9E+01		■		2	GE	pCi/L
7.7E+01		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab
Americium-241	<1.0E+00				0	GP
Cobalt-60	<1.0E+01				0	GP
Curium-242	<1.0E+00				0	GP
Curium-243/244	<1.0E+00				0	GP
Curium-245/246	<1.0E+00				0	GP
Iodine-129	3.4E+00		■		2	GP
Plutonium-238	<1.0E+00				0	GP
Plutonium-239/240	<1.0E+00				0	GP
Radium-226	7.7E+00				0	GP
Radium-228	3.7E+00				0	GP
Strontium-89	<2.0E+00				0	GP
Strontium-90	6.8E+00				1	GP
Technetium-99	3.2E+04		■		2	GP
Thorium-228	<1.0E+00				0	GP
Thorium-230	1.0E+00				0	GP
Thorium-232	<1.0E+00				0	GP
Thorium-234						
Tritium	1.3E+04		■		2	GE
Uranium-233/234	<1.0E+00				0	GP
Uranium-235	<1.0E+00				0	GP
Uranium-238	<1.0E+00				0	GP

2Q93	Mod	GP	H	Flag	Lab	Unit
<1.0E+00				0	GP	pCi/L
<1.0E+01				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
1.2E+01		■		2	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
1.0E+01				1	GP	pCi/L
1.7E+00				0	GP	pCi/L
<2.0E+00				0	GP	pCi/L
<2.0E+00				0	GP	pCi/L
3.1E+04		■		2	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<3.5E+02				0	GP	pCi/L
1.2E+04		■		2	GE	pCi/mL
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L
<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter		Mod	GP	H	Flag	Lab
Americium-243	<3.0E-03	C			0	
Nickel-63	<1.0E+01	C			0	
Plutonium-241	<4.0E+00	C			0	
Plutonium-242	<2.0E-05	C			0	

	Mod	GP	H	Flag	Lab	Unit
<3.0E-03	C			0		pCi/L
<1.0E+01	C			0		pCi/L
<4.0E+00	C			0		pCi/L
<2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB116D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72898.1 E55988.2	33.278354 °N 81.660975 °W	234.5-214.5 ft msl	256.8 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/18/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230		ft msl
pH	4		pH
Sp. conductance	313		µS/cm
Water temperature	21.5		°C
Alkalinity as CaCO ₃	0		mg/L
Volume purged	2.5		well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE							µg/L
Barium	210				0	GE							µg/L
Cadmium	< 2.0				0	GE							µg/L
Chromium	< 4.0				0	GE							µg/L
Lead	12				1	GE							µg/L
Lindane	< 0.0050				0	GE							µg/L
Mercury	< 0.20				0	GE							µg/L
Selenium	< 2.0				0	GE							µg/L
Silver	< 2.0				0	GE							µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE							µg/L
Benzene	< 1.0				0	GE							µg/L
Cobalt	8.1				0	GE							µg/L
Copper	6.3				0	GE							µg/L
Cyanide	< 5.0				0	GE							µg/L
Nickel	12				0	GE							µg/L
Tin	8.4				0	GE							µg/L
Trichloroethylene	< 1.0				0	GE							µg/L
Trichlorofluoromethane	< 1.0				0	GE							µg/L
Vanadium	< 8.0				0	GE							µg/L
Zinc	73		■		0	GE							µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	2,200		■		2	GE							µg/L
Nitrate as nitrogen	34,000		■		2	GE							µg/L
pH	4.1	J	■	●	0	GE							pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0				0	GE							µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB116D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	2.2E+01		■		2	GE							pCi/L
Nonvolatile beta	9.2E+03		■		2	GE							pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP							pCi/L
Cobalt-60	2.1E+02		■		2	GP							pCi/L
Curium-242	< 1.0E+00				0	GP							pCi/L
Curium-243/244	< 1.0E+00				0	GP							pCi/L
Curium-246/248	< 1.0E+00				0	GP							pCi/L
Iodine-129	1.2E+01		■		2	GP							pCi/L
Plutonium-238	< 1.0E+00				0	GP							pCi/L
Plutonium-239/240	< 1.0E+00				0	GP							pCi/L
Radium-226	2.1E+01		■		2	GP							pCi/L
Radium-228	1.0E+01				1	GP							pCi/L
Strontium-89	4.0E+02		■		2	GP							pCi/L
Strontium-90	2.5E+03		■		2	GP							pCi/L
Technetium-99	2.7E+03		■		2	GP							pCi/L
Thorium-228	< 1.0E+00				0	GP							pCi/L
Thorium-230	< 1.0E+00				0	GP							pCi/L
Thorium-232	< 1.0E+00				0	GP							pCi/L
Thorium-234													pCi/mL
Tritium	1.5E+03		■		2	GE							pCi/L
Uranium-233/234	< 1.0E+00				0	GP							pCi/L
Uranium-235	< 1.0E+00				0	GP							pCi/L
Uranium-238	< 1.0E+00				0	GP							pCi/L

Calculated Radionuclides

<u>Parameter</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C			0		pCi/L
Nickel-63	2.1E+02	C	■		2		pCi/L
Plutonium-241	< 4.0E+00	C			0		pCi/L
Plutonium-242	< 2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB117A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72733.6 E55170.1	33.276655 °N 81.86281 °W	94.1-84.1 ft msl	236.3 ft msl	4" PVC	S	M. Congaree (IIA)

SAMPLE DATE 01/18/93

04/19/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	170	170	ft msl
pH	6.4	6.9	pH
Sp. conductance	140	146	µS/cm
Water temperature	18.4	18.4	°C
Alkalinity as CaCO ₃	42	29	mg/L
Volume purged	3.7	3.0	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	30				0	GE	28				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	4.7				0	GE	4.5				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	<50				0	GE	µg/L
pH	6.9	J		•	0	GE	6.9	J		•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	1.6				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB117A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	2.4E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB117C

<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>
N72740.7 E55162.9	33.276659 °N 81.662842 °W	174.0-164.0 ft msl	236.3 ft msl	4" PVC	V	Barnwell (IIB, ₁)

SAMPLE DATE 01/18/93

04/19/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	4.6	4.9	pH
Sp. conductance	359	372	µS/cm
Water temperature	18	18.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.2	2.1	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	56				0	GE	61				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	0.22				0	GE	0.30				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	4.2				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<2.5				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.7				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	9.2				0	GE	9.1				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	430		■		2	GE	450		■		2	GE	µg/L
Nitrate as nitrogen	45,000		■		2	GE	44,000		■		2	GE	µg/L
pH	4.9	J	■	●	0	GE	5.0	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB117C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	1.4E+01				1	GE	1.2E+01				1	GE	pCi/L
Nonvolatile beta	7.9E+01		■		2	GE	4.9E+01				1	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	2.4E+00		■		2	GP	4.9E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	4.7E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	9.4E+00				0	GP	4.3E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	1.6E+04		■		2	GP	2.1E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	6.6E+03		■		2	GE	7.1E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB117D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72747.6 E55155.6	33.276662 °N 81.662875 °W	219.1-199.1 ft msl	236.3 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/18/93

04/19/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	4.8	5.1	pH
Sp. conductance	22	24	µS/cm
Water temperature	18.1	17.3	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	5.3	3.4	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	<3.0				0	GE	<3.0				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050	J		•	0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	2.9				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	34				1	GE	23				0	GE	µg/L
Nitrate as nitrogen	570				0	GE	620				0	GE	µg/L
pH	5.4	J	■	•	0	GE	5.3	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0	JV			0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB117D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	4.2E+00				1	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	2.9E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	8.1E+01		■		2	GE	6.9E+01		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB118A

SRS Coord.	Lst/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72696.4 E55775.6	33.277561 °N 81.661143 °W	101.0-91.0 ft msl	247.3 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	01/17/93	04/13/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	170	170	ft msl
pH	6.6	6.7	pH
Sp. conductance	311	332	µS/cm
Water temperature	19.5	19.1	°C
Alkalinity as CaCO ₃	35	33	mg/L
Volume purged	4.2	3.5	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	77				0	GE	71				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	8.3				0	GE	7.1				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	24,000		■		2	GE	62,000		■		2	GE	µg/L
pH	6.4	J	■	●	0	GE	6.7	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	4.1				1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB118A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	4.0E+00				0	GE	4.8E+00				0	GE	pCi/L
Nonvolatile beta	1.1E+01				0	GE	2.7E+01				1	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	4.3E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	3.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	1.7E+04	■			2	GP	2.2E+04	■			2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	7.1E+03	■			2	GE	8.3E+03	■			2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB119A

SR# Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73082.5 E56100.2	33.278944 °N 81.661038 °W	103.3-93.3 ft msl	257.1 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 01/25/93

04/07/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	170	170	ft msl
pH	6.6	6.6	pH
Sp. conductance	171	153	µS/cm
Water temperature	18.9	18.4	°C
Alkalinity as CaCO ₃	25	31	mg/L
Volume purged	0.80	0.75	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	3.1				0	GE	3.8				0	GE	µg/L
Barium	16				0	GE	15				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	3.3				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	8.2				0	GE	6.3				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	27		■		0	GE	32		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	70		■		2	GE	37				1	GE	µg/L
Nitrate as nitrogen	4,300				0	GE	5,900				1	GE	µg/L
pH	7.1	J		●	0	GE	7.0	J		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0	JV			0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB119A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	9.2E+00				0	GE	6.2E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP							pCi/L
Cobalt-60	< 1.0E+01				0	GP							pCi/L
Curium-242	< 1.0E+00				0	GP							pCi/L
Curium-243/244	< 1.0E+00				0	GP							pCi/L
Curium-245/246	< 1.0E+00				0	GP							pCi/L
Iodine-129	< 2.0E+00				0	GP							pCi/L
Plutonium-238	< 1.0E+00				0	GP							pCi/L
Plutonium-239/240	< 1.0E+00				0	GP							pCi/L
Radium-226	1.6E+00				0	GP							pCi/L
Radium-228	< 1.0E+00				0	GP							pCi/L
Strontium-89	< 2.0E+00				0	GP							pCi/L
Strontium-90	2.7E+00				0	GP							pCi/L
Technetium-99	1.0E+03	■			2	GP							pCi/L
Thorium-228	< 1.0E+00				0	GP							pCi/L
Thorium-230	< 1.0E+00				0	GP							pCi/L
Thorium-232	< 1.0E+00				0	GP							pCi/L
Thorium-234													
Tritium	3.5E+02		■		2	GE	3.6E+02		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP							pCi/L
Uranium-235	< 1.0E+00				0	GP							pCi/L
Uranium-238	< 1.0E+00				0	GP							pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0					0		pCi/L
Nickel-63	< 1.0E+01	C		0					0		pCi/L
Plutonium-241	< 4.0E+00	C		0					0		pCi/L
Plutonium-242	< 2.0E-05	C		0					0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB120A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73395.1 E56431.9	33.280177 °N 81.680772 °W	101.0-91.0 ft msl	268.2 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	01/15/93	04/08/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	170	170	ft msl
pH	7.6	7.7	pH
Sp. conductance	214	218	µS/cm
Water temperature	18.4	19.3	°C
Alkalinity as CaCO ₃	74	72	mg/L
Volume purged	3.7	3.9	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	35				0	GE	34				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	5.7				0	GE	6.8				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	< 2.0				0	GE	2.5				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	51		■		2	GE	< 20				0	GE	µg/L
Nitrate as nitrogen	< 50				0	GE	< 50				0	GE	µg/L
pH	7.5	J		●	0	GE	7.6	J		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0	JV			0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB120A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							4.0E+02				1	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB121A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72024.8 E57389.6	33.278709 °N 81.655689 °W	98.3-88.3 ft msl	274.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 01/22/93

04/08/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	170	170	ft msl
pH	7.5	7.6	pH
Sp. conductance	222	233	µS/cm
Water temperature	19.2	19.6	°C
Alkalinity as CaCO ₃	82	73	mg/L
Volume purged	3.4	3.6	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	46				0	GE	44				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	9.2				0	GE	7.9				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	2.0				0	GE	2.8				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	<50				0	GE	µg/L
pH	7.2	J		•	0	GE	7.5	J		•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB121A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab
Gross alpha	< 2.0E+00				0	GE
Nonvolatile beta	2.1E+00				0	GE

2Q93	Mod	GP	H	Flag	Lab	Unit
< 2.0E+00				0	GE	pCi/L
< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab
Americium-241	< 1.0E+00				0	GP
Cobalt-60	< 1.0E+01				0	GP
Curium-242	< 1.0E+00				0	GP
Curium-243/244	< 1.0E+00				0	GP
Curium-245/246	< 1.0E+00				0	GP
Iodine-129	< 2.0E+00				0	GP
Plutonium-238	< 1.0E+00				0	GP
Plutonium-239/240	< 1.0E+00				0	GP
Radium-226	< 1.0E+00				0	GP
Radium-228	1.2E+00				0	GP
Strontium-89	< 2.0E+00				0	GP
Strontium-90	2.0E+00				0	GP
Technetium-99	< 3.0E+02				0	GP
Thorium-228	< 1.0E+00				0	GP
Thorium-230	< 1.0E+00				0	GP
Thorium-232	< 1.0E+00				0	GP
Thorium-234						
Tritium	< 7.0E-01				0	GE
Uranium-233/234	< 1.0E+00				0	GP
Uranium-235	< 1.0E+00				0	GP
Uranium-238	< 1.0E+00				0	GP

2Q93	Mod	GP	H	Flag	Lab	Unit
< 1.0E+00				0	GP	pCi/L
< 1.0E+01				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 3.0E+02				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 3.5E+02				0	GP	pCi/L
< 7.0E-01				0	GE	pCi/mL
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab
Americium-243	< 3.0E-03	C		0	
Nickel-63	< 1.0E+01	C		0	
Plutonium-241	< 4.0E+00	C		0	
Plutonium-242	< 2.0E-05	C		0	

Mod	GP	H	Flag	Lab	Unit
< 3.0E-03	C		0		pCi/L
< 1.0E+01	C		0		pCi/L
< 4.0E+00	C		0		pCi/L
< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL HSB122A

<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>
N72195.9 E57747.4	33.279671 °N 81.654879 °W	95.4-95.4 ft msl	271.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 01/23/93

04/08/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	170	170	ft msl
pH	7	7.3	pH
Sp. conductance	219	232	µS/cm
Water temperature	19.5	19.1	°C
Alkalinity as CaCO ₃	74	69	mg/L
Volume purged	3.2	5.0	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	22				0	GE	23				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	4.1				0	GE	5.9				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	2.3				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	70				0	GE	<50				0	GE	µg/L
pH	7.2	J		•	0	GE	7.3	J		•	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	4.2				1	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB122A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB123A

<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>
N72189.8 E58124.8	33.280273 °N 81.653973 °W	103.6-93.6 ft msl	265.7 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 04/09/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation		170	ft msl
pH		12	pH
Sp. conductance		1365	µS/cm
Water temperature		18.4	°C
Alkalinity as CaCO ₃		216	mg/L
Volume purged		0.89	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic						GE	µg/L
Barium						GE	µg/L
Cadmium						GE	µg/L
Chromium						GE	µg/L
Lead						GE	µg/L
Lindane						GE	µg/L
Mercury						GE	µg/L
Selenium						GE	µg/L
Silver						GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony						GE	µg/L
Benzene						GE	µg/L
Cobalt						GE	µg/L
Copper						GE	µg/L
Cyanide						GE	µg/L
Nickel						GE	µg/L
Tin						GE	µg/L
Trichloroethylene						GE	µg/L
Trichlorofluoromethane						GE	µg/L
Vanadium						GE	µg/L
Zinc						GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum						GE	µg/L
Nitrate as nitrogen						GE	µg/L
pH						GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate						GE	µg/L
Methylene chloride						GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB123A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha							5.6E+00				0	GE	pCi/L
Nonvolatile beta							5.1E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241							<1.0E+00				0	GP	pCi/L
Cobalt-60							<1.0E+01				0	GP	pCi/L
Curium-242							<1.0E+00				0	GP	pCi/L
Curium-243/244							<1.0E+00				0	GP	pCi/L
Curium-245/246							<1.0E+00				0	GP	pCi/L
Iodine-129							<2.0E+00				0	GP	pCi/L
Plutonium-238							<1.0E+00				0	GP	pCi/L
Plutonium-239/240							<1.0E+00				0	GP	pCi/L
Radium-226							<1.0E+00				0	GP	pCi/L
Radium-228							1.7E+00				0	GP	pCi/L
Strontium-89							<2.0E+00				0	GP	pCi/L
Strontium-90							<2.0E+00				0	GP	pCi/L
Technetium-99							<3.0E+02				0	GP	pCi/L
Thorium-228							<1.0E+00				0	GP	pCi/L
Thorium-230							<1.0E+00				0	GP	pCi/L
Thorium-232							<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium							<7.0E-01				0	GE	pCi/mL
Uranium-233/234							<1.0E+00				0	GP	pCi/L
Uranium-235							<1.0E+00				0	GP	pCi/L
Uranium-238							<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243				0		<3.0E-03	C			0		pCi/L
Nickel-63				0		<1.0E+01	C			0		pCi/L
Plutonium-241				0		<4.0E+00	C			0		pCi/L
Plutonium-242				0		<2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB124AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72202.7 E58531.7	33.280965 °N 81.652927 °W	104.6-94.6 ft msl	266.8 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	01/23/93	04/08/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	170	170	ft msl
pH	7	7.2	pH
Sp. conductance	231	244	µS/cm
Water temperature	19.6	19.6	°C
Alkalinity as CaCO ₃	84	74	mg/L
Volume purged	3.8		well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	40				0	GE	39				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	7.3				0	GE	3.9				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	< 2.0				0	GE	2.5				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	< 20				0	GE	< 20				0	GE	µg/L
Nitrate as nitrogen	< 50				0	GE	< 50				0	GE	µg/L
pH	7.2	J		●	0	GE	7.4	J		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	4.7				1	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB124AR (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	2.1E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB125C

<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>
N71503.6 E58592.8	33.279519 °N 81.651408 °W	155.6-145.6 ft msl	231.9 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/23/93

04/14/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft msl
pH	5.6	5.8	pH
Sp. conductance	27	31	µS/cm
Water temperature	19.4	19.3	°C
Alkalinity as CaCO ₃	4	6	mg/L
Volume purged	3.0	2.9	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	5.0	J3			0	WA	3.8				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	4.0	JV3			0	WA	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	4.5				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<3.0				0	WA	<8.0				0	GE	µg/L
Zinc	18				0	GE	8.9				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	30				1	GE	33				1	GE	µg/L
Nitrate as nitrogen	130				0	WA	80				0	GE	µg/L
pH	6.0	J	■	●	0	GE	5.9	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	4.2				1	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB125C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	<5.0E-01				0	TM	<2.0E+00				0	GE	pCi/L
Nonvolatile beta	3.1E+00				0	GE	<2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	CN	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Radium-226	1.8E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	4.2E+00				0	TM	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	CN	<2.0E+00				0	GP	pCi/L
Strontium-90	2.6E+00				0	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	<3.0E+02				0	CN	<3.0E+02				0	GP	pCi/L
Thorium-228	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	4.9E+00				0	TM	5.1E+00				0	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	CN	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB125D

<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>
N71498.2 E56584.1	33.279492 °N 81.651421 °W	219.4-199.4 ft msl	231.7 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/19/93

04/14/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	4.9	5	pH
Sp. conductance	173	420	µS/cm
Water temperature	18.5	17.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.5	5.6	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	27				0	GE	23				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	3.3	■			2	GE	4.3	■			2	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	4.3				0	GE	2.2				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	2.9				0	GE	5.4				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	76		■		2	GE	88		■		2	GE	µg/L
Nitrate as nitrogen	3,800		■		0	GE	40,000		■		2	GE	µg/L
pH	5.2	J	■	●	0	GE	5.3	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB125D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	2.4E+00				0	GE	4.0E+00				0	GE	pCi/L
Nonvolatile beta	4.9E+01				1	GE	3.0E+01				1	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	2.1E+00		■		2	GP	4.1E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	1.5E+00				0	GP	2.4E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	2.5E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	1.7E+01		■		2	GP	1.6E+01		■		2	GP	pCi/L
Technetium-99	6.2E+03		■		2	GP	9.3E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.8E+03		■		2	GE	3.9E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB126C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N70827.7 E57178.2	33.275273 °N 81.653432 °W	181.3-176.3 ft msl	212.6 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/20/93

05/03/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	200	200	ft msl
pH	7.3	7.7	pH
Sp. conductance	213	225	µS/cm
Water temperature	17.1	18.2	°C
Alkalinity as CaCO ₃	54	57	mg/L
Volume purged	4.4	4.0	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	21				0	GE	23				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	3.7				0	GE	3.4				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	5.8				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	22,000				2	GE	5,800				1	GE	µg/L
pH	7.7	J			0	GE	7.3	J			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB126C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab
Gross alpha	< 2.0E+00				0	GE
Nonvolatile beta	2.3E+00				0	GE

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab
Americium-241	< 1.0E+00				0	GP
Cobalt-60	< 1.0E+01				0	GP
Curium-242	< 1.0E+00				0	GP
Curium-243/244	< 1.0E+00				0	GP
Curium-245/248	< 1.0E+00				0	GP
Iodine-129	< 2.0E+00				0	GP
Plutonium-238	< 1.0E+00				0	GP
Plutonium-239/240	< 1.0E+00				0	GP
Radium-226	< 1.0E+00				0	GP
Radium-228	< 1.0E+00				0	GP
Strontium-89	< 2.0E+00				0	GP
Strontium-90	< 2.0E+00				0	GP
Technetium-99	7.3E+02				1	GP
Thorium-228	< 1.0E+00				0	GP
Thorium-230	< 1.0E+00				0	GP
Thorium-232	< 1.0E+00				0	GP
Thorium-234						
Tritium	2.9E+02				2	GE
Uranium-233/234	< 1.0E+00				0	GP
Uranium-235	< 1.0E+00				0	GP
Uranium-238	< 1.0E+00				0	GP

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab
Americium-243	< 3.0E-03	C		0	
Nickel-63	< 1.0E+01	C		0	
Plutonium-241	< 4.0E+00	C		0	
Plutonium-242	< 2.0E-05	C		0	

2Q93	Mod	GP	H	Flag	Lab	Unit
< 2.0E+00				0	GE	pCi/L
4.0E+00				0	GE	pCi/L

2Q93	Mod	GP	H	Flag	Lab	Unit
< 1.0E+00				0	GP	pCi/L
< 1.0E+01				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
6.5E+02				1	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 3.5E+02				0	GP	pCi/L
3.0E+02				2	GE	pCi/mL
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB126D

<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>
N70633.4 E57169.6	33.275272 °N 81.653466 °W	200.5-190.5 ft msl	212.7 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/20/93

05/04/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	210	200	ft msl
pH	4.3	4.5	pH
Sp. conductance	422	424	µS/cm
Water temperature	15.3	16.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	0.81	0.75	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	94				0	GE	93				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	6.2				2	GE	6.2				2	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	4.1				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	4.7				0	GE	4.1				0	GE	µg/L
Tin	2.3				0	GE	5.4				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	14				0	GE	14				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	400				2	GE	420				2	GE	µg/L
Nitrate as nitrogen	55,000				2	GE	52,000				2	GE	µg/L
pH	4.8	J			0	GE	5.3	J			0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB126D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	2.9E+00				0	GE	7.8E+00				1	GE	pCi/L
Nonvolatile beta	1.7E+01				0	GE	2.7E+01				1	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	1.5E+00				0	GP	pCi/L
Iodine-129	3.0E+00	■			2	GP	1.1E+01	■			2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	2.9E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	1.7E+00				0	GP	1.3E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	1.2E+04	■			2	GP	7.5E+03	■			2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	4.7E+03	■			2	GE	4.8E+03	■			2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB127C

<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>
N71210.1 E56792.1	33.275932 °N 81.655558 °W	158.4-148.4 ft msl	225.7 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/19/93

04/20/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	210	210	ft msl
pH	7.8	8.1	pH
Sp. conductance	274	276	µS/cm
Water temperature	19.4	19.5	°C
Alkalinity as CaCO ₃	67	64	mg/L
Volume purged	3.1	2.5	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	17				0	GE	19				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.6				0	GE	4.2				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	3.2				0	GE	6.5				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	9,700				1	GE	9,400				1	GE	µg/L
pH	7.7	J		●	0	GE	8.7	J	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

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WELL HSB127C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	2.6E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	1.9E+01				0	GE	1.7E+01				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	1.1E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	5.7E+00				1	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	3.0E+03	■			2	GP	2.3E+03	■			2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.0E+03	■			2	GE	9.5E+02	■			2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB127D

<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>
N71218.9 E56788.0	33.275945 °N 81.655608 °W	217.8-197.8 ft msl	226.1 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/19/93

04/20/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	4.6	4.8	pH
Sp. conductance	227	217	µS/cm
Water temperature	19.1	18.3	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	8.3	8.7	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	15				0	GE	12				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	4.0		■		2	GE	3.9		■		2	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	4.4				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<2.5				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	3.2				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	2.5				0	GE	2.5				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	160		■		2	GE	97		■		2	GE	µg/L
Nitrate as nitrogen	28,000		■		2	GE	22,000		■		2	GE	µg/L
pH	4.9	J	■	●	0	GE	4.9	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB127D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	3.6E+00				0	GE	4.9E+00				0	GE	pCi/L
Nonvolatile beta	3.6E+01				1	GE	6.7E+01		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	6.7E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	3.8E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	8.8E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	1.9E+01		■		2	GP	1.5E+01		■		2	GP	pCi/L
Technetium-99	5.1E+03		■		2	GP	1.4E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	6.7E+03		■		2	GE	4.9E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB129C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71830.4 E55110.0	33.274559 °N 81.661214 °W	157.8-147.8 ft msl	215.1 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/20/93

04/21/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	210	210	ft msl
pH	5.6	6.7	pH
Sp. conductance	185	202	µS/cm
Water temperature	16.5	17.4	°C
Alkalinity as CaCO ₃	5	28	mg/L
Volume purged	0.77	0.75	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	53				0	GE	71				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	5.6				0	GE	7.5				0	GE	µg/L
Tin	5.4				0	GE	9.7				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	8.6		■		2	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	190		■		0	GE	170		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	99		■		2	GE	160		■		2	GE	µg/L
Nitrate as nitrogen	18,000		■		2	GE	13,000		■		2	GE	µg/L
pH	5.9	J	■	●	0	GE	7.0	J		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB129C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	2.8E+00				0	GE	2.4E+00				0	GE	pCi/L
Nonvolatile beta	4.1E+01				1	GE	3.6E+01				1	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	3.1E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	2.4E+00				0	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	1.0E+04	■			2	GP	3.6E+03	■			2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.9E+03	■			2	GE	1.6E+03	■			2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB129D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71837.1	33.274563 °N	205.2-185.2 ft msl	214.7 ft msl	4" PVC	S	Water table (IIB ₂)
E55103.4	81.661244 °W					

SAMPLE DATE 01/20/93

04/20/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	210	210	ft msl
pH	4.6	4.9	pH
Sp. conductance	286	314	µS/cm
Water temperature	17.3	16.5	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	6.1	6.1	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	31				0	GE	28				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	0.61				0	GE	0.64				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	780		■		2	GE	150		■		2	GE	µg/L
Nitrate as nitrogen	33,000		■		2	GE	35,000		■		2	GE	µg/L
pH	4.9	J	■	●	0	GE	4.9	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.1				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB129D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	2.1E+00				0	GE	7.7E+00				1	GE	pCi/L
Nonvolatile beta	5.9E+01		■		2	GE	6.5E+01		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	5.0E+00		■		2	GP	2.2E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	1.2E+00				0	GP	1.4E+00				0	GP	pCi/L
Radium-228	1.0E+00				0	GP	1.8E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	1.1E+04		■		2	GP	1.1E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	4.4E+03		■		2	GE	4.4E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL HSB130C

<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>
N70762.4 E54643.6	33.271436 °N 81.660367 °W	169.9-159.9 ft msl	218.3 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/19/93

04/20/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	200	200	ft msl
pH	8	8.4	pH
Sp. conductance	170	175	µS/cm
Water temperature	18	18.4	°C
Alkalinity as CaCO ₃	48	52	mg/L
Volume purged		3.2	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	22				0	GE	21				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	4.9				0	GE	4.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	7.4				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	80				0	GE	150				0	GE	µg/L
pH	8.0	J		●	1	GE	8.8	J	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB130C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.8E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	2.7E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C			0		< 3.0E-03	C			0		pCi/L
Nickel-63	< 1.0E+01	C			0		< 1.0E+01	C			0		pCi/L
Plutonium-241	< 4.0E+00	C			0		< 4.0E+00	C			0		pCi/L
Plutonium-242	< 2.0E-05	C			0		< 2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB130D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N70757.2 E54651.7	33.271438 °N 81.660336 °W	202.1-182.1 ft msl	218.6 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/19/93

04/20/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	200	200	ft msl
pH	6.4	6.6	pH
Sp. conductance	93	83	µS/cm
Water temperature	19	18	°C
Alkalinity as CaCO ₃	28	22	mg/L
Volume purged	3.3	3.0	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	11				0	GE	8.8				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	1.1				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	6.9				0	GE	9.1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	180				0	GE	510				0	GE	µg/L
pH	6.8	J	■	●	0	GE	6.9	J		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB130D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	5.4E+00				1	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	9.0E+00				0	GE	8.3E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB131C

<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>
N70374.7 E56894.9	33.274252 °N 81.653687 °W	158.5-148.5 ft msl	211.7 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/19/93

04/22/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	200	200	ft msl
pH	8	8.1	pH
Sp. conductance	226	227	µS/cm
Water temperature	17.8	17.9	°C
Alkalinity as CaCO ₃	67	59	mg/L
Volume purged	6.7	4.0	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	22				0	GE	22				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.4				0	GE	3.4				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<3.0				0	WA	µg/L
Zinc	<2.0				0	GE	2.6	J3			0	WA	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	2,700				0	GE	3,300				0	GE	µg/L
pH	8.0	J		•	0	GE	8.0	J		•	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB131C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 7.0E-01				0	TM	pCi/L
Nonvolatile beta	2.8E+00				0	GE	3.3E+00				0	TM	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	CN	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.6E-01				0	TM	pCi/L
Radium-228	< 1.0E+00				0	GP	9.0E-01				0	TM	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	CN	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	CN	pCi/L
Technetium-99	3.7E+02				0	GP	3.5E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.6E+02		■		2	GE	1.7E+02			■	2	TM	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	CN	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB131D

<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>
N70365.0 E56891.1	33.274224 °N 81.653678 °W	205.7-195.7 ft msl	212.1 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 03/30/93

04/22/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	210	210	ft msl
pH	5.4	5.3	pH
Sp. conductance	33	26	µS/cm
Water temperature	14.3	15.2	°C
Alkalinity as CaCO ₃	1	0	mg/L
Volume purged	5.9	9.3	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	37				0	GE	31				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	3.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	240		■		2	GE	27				1	GE	µg/L
Nitrate as nitrogen	130				0	GE	290				0	GE	µg/L
pH	5.4	J	■	●	0	GE	5.4	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB131D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	2.2E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	3.7E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.2E+01				0	CN	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Curium-245/246							< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	CN	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	CN	2.1E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	CN	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	CN	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	CN	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.0E+01		■		2	GE	1.5E+01				1	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	CN	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.2E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB132C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71472.4 E58787.7	33.279768 °N 81.650835 °W	178.6-168.6 ft msl	240.5 ft msl	4" PVC	S	Barnwell (IIb ₁)

SAMPLE DATE 01/29/93

04/23/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	5.3	5.6	pH
Sp. conductance	31	56	µS/cm
Water temperature	17.6	17.6	°C
Alkalinity as CaCO ₃	4	6	mg/L
Volume purged	0.90	0.88	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	8.7				0	GE	4.8				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	4.5				0	GE	4.2				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	19				0	GE	5.1				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	6.4				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	25		■		0	GE	17				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	130		■		2	GE	84		■		2	GE	µg/L
Nitrate as nitrogen	1,800				0	GE	80				0	GE	µg/L
pH	5.3	J	■	●	0	GE	5.8	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB132C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	1.9E+00				0	GP	1.6E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	4.1E+01		■		2	GP	pCi/L
Strontium-90	2.1E+00				0	GP	3.2E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.1E+01		■		2	GE	2.6E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB132D

<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>
N71489.5 E58799.3	33.27978 °N 81.650798 °W	226.5-206.5 ft msl	240.7 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/29/93

04/23/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	5.1	5.6	pH
Sp. conductance	40	46	µS/cm
Water temperature	17.1	16.3	°C
Alkalinity as CaCO ₃	6	8	mg/L
Volume purged	0.87	0.89	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	4.8				0	GE	11				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	6.2				0	GE	3.6				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	5.5				0	GE	22				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.1				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	24		■		0	GE	37		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	72		■		2	GE	71		■		2	GE	µg/L
Nitrate as nitrogen	50				0	GE	1,400				0	GE	µg/L
pH	5.3	J	■	●	0	GE	5.8	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	3.0				1	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB132D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	5.2E+00				0	GP	6.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	2.7E+01				2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB133C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71949.5 E59110.3	33.281349 °N 81.650912 °W	183.3-173.3 ft msl	255.6 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/22/93

04/15/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	6	6	pH
Sp. conductance	45	46	µS/cm
Water temperature	19.2	19.3	°C
Alkalinity as CaCO ₃	12	9	mg/L
Volume purged	3.1	3.1	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	5.9				0	GE	6.3				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.4				0	GE	2.4				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	6.9				0	GE	4.6				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	32				1	GE	24				0	GE	µg/L
Nitrate as nitrogen	100				0	GE	350				0	GE	µg/L
pH	6.2	J	■	●	0	GE	6.4	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	3.6				1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB133C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB133D

<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>
N71943.5 E59102.3	33.281323 °N 81.650921 °W	228.5-208.5 ft msl	255.3 ft msl	4" PVC	S	Water table (IIB ₂)

<u>SAMPLE DATE</u>	<u>01/22/93</u>	<u>04/15/93</u>

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	240	240	ft msl
pH	5.4	5.5	pH
Sp. conductance	57	58	µS/cm
Water temperature	19	18.8	°C
Alkalinity as CaCO ₃	7	5	mg/L
Volume purged	3.2	2.8	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	<3.0				0	GE	<3.0				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	2.2				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	3.6				0	GE	2.4				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	41				1	GE	<20				0	GE	µg/L
Nitrate as nitrogen	410				0	GE	510				0	GE	µg/L
pH	5.8	J	■	●	0	GE	5.9	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	4.3				1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB133D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	2.3E+01		■		2	GE	pCi/L
Nonvolatile beta	2.4E+00				0	GE	1.4E+01				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	8.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	1.7E+01		■		2	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.8E+01		■		2	GE	3.3E+01		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB134C

<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>
N71210.3 E58289.9	33.278376 °N 81.651636 °W	159.1-149.1 ft msl	238.4 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/20/93

04/14/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	5.1	5.7	pH
Sp. conductance	34	41	µS/cm
Water temperature	18.4	19.4	°C
Alkalinity as CaCO ₃	1	4	mg/L
Volume purged	2.9	3.0	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	7.2				0	GE	7.2				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	5.3				0	GE	4.8				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	33				1	GE	53		■		2	GE	µg/L
Nitrate as nitrogen	1,400				0	GE	1,400				0	GE	µg/L
pH	8.4	J		●	1	GE	5.9	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB134C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	<2.0E+00				0	GE	<2.0E+00				0	GE	pCi/L
Nonvolatile beta	<2.0E+00				0	GE	<2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	2.8E+00				0	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	<3.0E+02				0	GP	<3.0E+02				0	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	3.7E+01		■		2	GE	3.9E+01		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB134D

<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>
N71217.3 E58296.5	33.278402 °N 81.651633 °W	225.8-205.8 ft msl	238.1 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/20/93

04/14/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	4.4	4.6	pH
Sp. conductance	132	102	µS/cm
Water temperature	18.1	17.2	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	5.8	6.1	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	42				0	GE	42				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	0.62				0	GE	0.66				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	3.8				0	GE	< 2.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	< 2.0				0	GE	2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	490		■		2	GE	570		■		2	GE	µg/L
Nitrate as nitrogen	14,000		■		2	GE	9,600				1	GE	µg/L
pH	4.6	J	■	●	0	GE	4.6	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.0				0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB134D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	7.5E+00				0	GE	1.1E+01				1	GE	pCi/L
Nonvolatile beta	6.9E+02		■		2	GE	5.8E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	2.7E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-228	4.4E+00				0	GP	3.4E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	2.4E+01		■		2	GP	pCi/L
Strontium-90	4.7E+02		■		2	GP	2.2E+02		■		2	GP	pCi/L
Technetium-99	2.8E+03		■		2	GP	1.9E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.1E+03		■		2	GE	3.5E+02		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB135C

<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>
N71390.2 E56560.8	33.275953 °N 81.656539 °W	157.3-147.3 ft msl	232 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/20/93

04/14/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	210	210	ft msl
pH	8.3	7.8	pH
Sp. conductance	199	208	µS/cm
Water temperature	19.1	19.8	°C
Alkalinity as CaCO ₃	69	55	mg/L
Volume purged	4.5	3.8	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	21				0	GE	20				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	6.1				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	84		■		2	GE	110		■		2	GE	µg/L
Nitrate as nitrogen	440				0	GE	520				0	GE	µg/L
pH	5.5	J	■	●	0	GE	9.5	J	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB135C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.8E+00				0	GE	2.7E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	3.9E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	6.7E+01		■		2	GE	5.3E+01		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL HSB135D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71396.7 E56552.8	33.275954 °N 81.656572 °W	219.9-199.9 ft msl	232.3 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/20/93

04/14/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	5.3	5.4	pH
Sp. conductance	47	48	µS/cm
Water temperature	18	18.2	°C
Alkalinity as CaCO ₃	1	0	mg/L
Volume purged	6.4	5.9	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	<3.0				0	GE	4.3				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	0.37				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	3.0				0	GE	3.7				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	22				0	GE	53		■		2	GE	µg/L
Nitrate as nitrogen	3,700				0	GE	3,200				0	GE	µg/L
pH	5.2	J	■	●	0	GE	5.7	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB135D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	2.1E+00				0	GE	pCi/L
Nonvolatile beta	1.3E+01				0	GE	3.4E+01				1	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	4.2E+00				0	GP	1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	9.2E+00		■		2	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	5.2E+02				1	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	9.2E+01		■		2	GE	1.4E+02		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB136C

<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>
N71900.3 E55949.6	33.276084 °N 81.659139 °W	170.5-160.5 ft msl	227.9 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/25/93

04/21/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	9.8	10.3	pH
Sp. conductance	406	418	µS/cm
Water temperature	17.9	18.7	°C
Alkalinity as CaCO ₃	20	23	mg/L
Volume purged	0.75	0.75	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	72				0	GE	64				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050	J		•	0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	13		■		1	GE	12		■		1	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	10				0	GE	9.1				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	130		■		2	GE	110		■		2	GE	µg/L
Nitrate as nitrogen	41,000		■		2	GE	38,000		■		2	GE	µg/L
pH	9.8	J	■	•	1	GE	10	J	■	•	2	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB136C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	7.7E+00				1	GE	9.7E+00				1	GE	pCi/L
Nonvolatile beta	1.0E+02		■		2	GE	9.2E+01		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	4.4E+00		■		2	GP	3.4E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	4.0E+00				0	GP	2.3E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	<2.0E+00				0	GP	2.2E+00				0	GP	pCi/L
Technetium-99	2.0E+04		■		2	GP	1.8E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	8.2E+03		■		2	GE	7.8E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB136D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71908.0 E55941.7	33.276084 °N 81.659171 °W	220.2-200.2 ft msl	228 ft msl	4" PVC	V	Water table (IIB ₂)

SAMPLE DATE 01/25/93

04/21/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	4	4	pH
Sp. conductance	194	238	µS/cm
Water temperature	18.8	18	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.6	2.7	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	74				0	GE	85				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050	J		•	0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	7.8				0	GE	10				0	GE	µg/L
Copper	4.6				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<2.5				0	GE	µg/L
Nickel	10				0	GE	12				0	GE	µg/L
Tin	3.3				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	44		■		0	GE	54		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	3,300		■		2	GE	4,500		■		2	GE	µg/L
Nitrate as nitrogen	19,000		■		2	GE	24,000		■		2	GE	µg/L
pH	4.3	J	■	•	0	GE	4.1	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB136D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	4.9E+01		■		2	GE	7.4E+01		■		2	GE	pCi/L
Nonvolatile beta	2.9E+03		■		2	GE	2.5E+03		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	1.5E+02		■		2	GP	1.3E+02		■		2	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	6.8E+00		■		2	GP	3.3E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	4.8E+01		■		2	GP	2.4E+01		■		2	GP	pCi/L
Radium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	3.7E+01		■		2	GP	1.4E+02		■		2	GP	pCi/L
Strontium-90	7.0E+02		■		2	GP	1.1E+03		■		2	GP	pCi/L
Technetium-99	6.7E+03		■		2	GP	7.8E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	2.5E+03		■		2	GE	3.5E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	1.3E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C			0	<3.0E-03	C			0	pCi/L
Nickel-63	1.5E+02	C	■		2	1.3E+02	C	■		2	pCi/L
Plutonium-241	<4.0E+00	C			0	<4.0E+00	C			0	pCi/L
Plutonium-242	<2.0E-05	C			0	<2.0E-05	C			0	pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB137C

<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>
N72269.9 E56700.2	33.276494 °N 81.660513 °W	173.8-163.8 ft msl	236 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/25/93

04/21/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	6.7	9.4	pH
Sp. conductance	569	548	µS/cm
Water temperature	18.1	18.3	°C
Alkalinity as CaCO ₃	15	17	mg/L
Volume purged	0.70	0.67	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	81				0	GE	58				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050	J		•	0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<2.5				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	9.8				0	GE	11		■		1	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	19				0	GE	8.5				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	79		■		2	GE	91		■		2	GE	µg/L
Nitrate as nitrogen	64,000		■		2	GE	58,000		■		2	GE	µg/L
pH	7.1	J		•	0	GE	9.4	J	■	•	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB137C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	1.1E+01				1	GE	1.3E+01				1	GE	pCi/L
Nonvolatile beta	1.2E+02		■		2	GE	1.2E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	6.2E+00		■		2	GP	8.4E+00		■		2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	3.1E+00				0	GP	1.5E+00				0	GP	pCi/L
Radium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	2.7E+04		■		2	GP	2.5E+04		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	1.1E+04		■		2	GE	1.1E+04		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB137D

<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>
N72278.9 E55696.1	33.276508 °N 81.660542 °W	225.3-205.3 ft msl	236.6 ft msl	4" PVC	S	Water table (IIB ₂)

<u>SAMPLE DATE</u>	<u>01/25/93</u>	<u>04/20/93</u>

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	230	ft msl
pH	4.9	5.1	pH
Sp. conductance	120	111	µS/cm
Water temperature	18.5	18.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	6.4	4.5	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	12				0	GE	9.6				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	5.2				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050	J		●	0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	74		■		0	GE	41				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	80		■		0	GE	41		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	79		■		2	GE	78		■		2	GE	µg/L
Nitrate as nitrogen	11,000		■		2	GE	8,300		■		1	GE	µg/L
pH	5.7	J	■	●	0	GE	5.3	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB137D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	3.2E+00				0	GE	2.6E+00				0	GE	pCi/L
Nonvolatile beta	3.5E+01				1	GE	2.0E+01				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	<1.0E+00				0	GP	2.5E+00				0	GP	pCi/L
Radium-228	5.3E+00				0	GP	2.6E+00				0	GP	pCi/L
Strontium-89	2.4E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	1.7E+01		■		2	GP	1.4E+01		■		2	GP	pCi/L
Technetium-99	1.2E+04		■		2	GP	3.9E+03		■		2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	2.4E+03		■		2	GE	1.6E+03		■		2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB138D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73160.2 E55260.7	33.277746 °N 81.6634 °W	228.1-208.1 ft msl	252.4 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE	01/25/93	04/20/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	5.8	5.7	pH
Sp. conductance	54	33	µS/cm
Water temperature	17.3	17	°C
Alkalinity as CaCO ₃	7	3	mg/L
Volume purged		0.87	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	4.4				0	GE	3.8				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	12				1	GE	12				1	GE	µg/L
Lindane	<0.0050	J6		•	0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	22				0	GE	20				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	61		■		0	GE	30		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	42				1	GE	59		■		2	GE	µg/L
Nitrate as nitrogen	1,100				0	GE	740				0	GE	µg/L
pH	6.0	J	■	•	0	GE	6.4	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB138D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	5.6E+01		■		2	GE	2.6E+01		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB139A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71127.4 E57365.4	33.276684 °N 81.65391 °W	97.6-87.6 ft msl	233.7 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 01/22/93

04/21/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	170	170	ft msl
pH	7.7	7.9	pH
Sp. conductance	218	223	µS/cm
Water temperature	18.9	18.5	°C
Alkalinity as CaCO ₃	78	56	mg/L
Volume purged	3.2	3.2	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	20				0	GE	21				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	4.8				0	GE	2.3				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	2.1				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	<50				0	GE	µg/L
pH	8.3	J		•	1	GE	8.0	J		•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB139A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	2.3E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	2.2E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	2.1E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB139C

<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>
N71129.8 E57374.5	33.276704 °N 81.65389 °W	158.5-148.5 ft msl	233.8 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/28/93

04/21/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	5.2	5.6	pH
Sp. conductance	388	395	µS/cm
Water temperature	16.5	18.4	°C
Alkalinity as CaCO ₃	3	4	mg/L
Volume purged	0.68	0.65	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	76				0	GE	76				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	1.2				1	GE	0.61				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	5.1				0	GE	5.4				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<10				0	GE	µg/L
Nickel	10				0	GE	7.2				0	GE	µg/L
Tin	4.6				0	GE	2.9				0	GE	µg/L
Trichloroethylene	1.3				0	GE	1.3				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	50		■		0	GE	51		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	180		■		2	GE	140		■		2	GE	µg/L
Nitrate as nitrogen	52,000		■		2	GE	46,000		■		2	GE	µg/L
pH	5.9	J	■	●	0	GE	5.8	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB139C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	/ 2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	3.5E+00				0	GE	2.7E+00				0	GE	pCi/L
Nonvolatile beta	3.1E+01				1	GE	2.8E+01				1	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Cobalt-60	<1.0E+01				0	GP	<1.0E+01				0	GP	pCi/L
Curium-242	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-243/244	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Curium-245/246	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Iodine-129	<2.0E+00				0	GP	2.9E+00	■			2	GP	pCi/L
Plutonium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Plutonium-239/240	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Radium-226	1.1E+00				0	GP	2.6E+00				0	GP	pCi/L
Radium-228	2.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Strontium-89	<2.0E+00				0	GP	<2.0E+00				0	GP	pCi/L
Strontium-90	2.4E+00				0	GP	<2.0E+00				0	GP	pCi/L
Technetium-99	6.8E+03	■			2	GP	6.4E+03	■			2	GP	pCi/L
Thorium-228	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-230	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-232	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Thorium-234							<3.5E+02				0	GP	pCi/L
Tritium	2.8E+03	■			2	GE	2.7E+03	■			2	GE	pCi/mL
Uranium-233/234	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-235	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L
Uranium-238	<1.0E+00				0	GP	<1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	<3.0E-03	C		0		<3.0E-03	C		0		pCi/L
Nickel-63	<1.0E+01	C		0		<1.0E+01	C		0		pCi/L
Plutonium-241	<4.0E+00	C		0		<4.0E+00	C		0		pCi/L
Plutonium-242	<2.0E-05	C		0		<2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB139D

<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>
N71133.2 E57384.4	33.278728 °N 81.853871 °W	226.7-206.7 ft msl	233.8 ft msl	4" PVC	S	Water table (IIB ₂)

<u>SAMPLE DATE</u>	<u>01/22/93</u>	<u>04/21/93</u>

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	220	ft msl
pH	5.1	5.3	pH
Sp. conductance	38	39	µS/cm
Water temperature	17.9	18.7	°C
Alkalinity as CaCO ₃	1	0	mg/L
Volume purged	6.8	11	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	15				0	GE	18				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	6.7				0	GE	11				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.5				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	10				0	GE	12				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	38				1	GE	41				1	GE	µg/L
Nitrate as nitrogen	350				0	GE	740				0	GE	µg/L
pH	5.5	J	■	●	0	GE	5.4	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB139D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	4.8E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.8E+01				1	GE	4.8E+01				2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB140A

<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>
N70050.3 E56535.4	33.272948 °N 81.654003 °W	91.0-81.0 ft msl	235.9 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 01/23/93

04/15/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	180	180	ft msl
pH	6.9	7.1	pH
Sp. conductance	150	156	µS/cm
Water temperature	19.2	19.5	°C
Alkalinity as CaCO ₃	43	37	mg/L
Volume purged	3.8	3.6	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	49				0	GE	49				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	9.2				0	GE	5.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	<50				0	GE	<50				0	GE	µg/L
pH	6.9	J		•	0	GE	7.5	J		•	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	4.5				1	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB140A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-246/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	2.2E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C			0		< 3.0E-03	C			0		pCi/L
Nickel-63	< 1.0E+01	C			0		< 1.0E+01	C			0		pCi/L
Plutonium-241	< 4.0E+00	C			0		< 4.0E+00	C			0		pCi/L
Plutonium-242	< 2.0E-05	C			0		< 2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB140C

<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>
N70049.2 E56551.8	33.272972 °N 81.653958 °W	171.6-161.6 ft msl	235.6 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/23/93

04/15/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	210	210	ft msl
pH	5.5	5.8	pH
Sp. conductance	23	28	µS/cm
Water temperature	19.3	19.5	°C
Alkalinity as CaCO ₃	4	4	mg/L
Volume purged	3.0	3.3	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	7.6				0	GE	7.6				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.4				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	8.2				0	GE	7.2				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	<20				0	GE	<20				0	GE	µg/L
Nitrate as nitrogen	560				0	GE	560				0	GE	µg/L
pH	5.9	J	■	●	0	GE	6.1	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	2.9				1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB140C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.3E+00				0	GE	3.1E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB140D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N70036.0 E56560.6	33.272957 °N 81.653909 °W	214.1-194.1 ft msl	236.2 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/23/93

04/15/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	4.8	5	pH
Sp. conductance	19	24	µS/cm
Water temperature	19.4	19.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	8.3	4.2	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	4.0				0	GE	3.8				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.1				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	2.9				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	45				1	GE	46				1	GE	µg/L
Nitrate as nitrogen	600				0	GE	500				0	GE	µg/L
pH	5.1	J	■	●	0	GE	5.6	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	4.0				1	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB140D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	5.1E+00				1	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.4E+01				1	GE	1.5E+01				1	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB141A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71213.6 E59168.7	33.279817 °N 81.649329 °W	90.6-80.6 ft msl	254.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 01/27/93

04/22/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	180	180	ft msl
pH	11.9	12	pH
Sp. conductance	1276	1289	µS/cm
Water temperature	19.6	19.9	°C
Alkalinity as CaCO ₃	183	219	mg/L
Volume purged	4.2	2.6	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	110				0	GE	110				0	GE	µg/L
Cadmium	<6.0				0	GE	<6.0				0	GE	µg/L
Chromium	<12				0	GE	<12				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<6.0				0	GE	<6.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<12				0	GE	<12				0	GE	µg/L
Copper	<12				0	GE	<12				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<12				0	GE	<12				0	GE	µg/L
Tin	30		■		2	GE	25		■		2	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<24				0	GE	<24				0	GE	µg/L
Zinc	<6.0				0	GE	<6.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	2,500		■		2	GE	2,800		■		2	GE	µg/L
Nitrate as nitrogen	<50				0	GE	120				0	GE	µg/L
pH	12	J	■	●	2	GE	12	J	■	●	2	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB141A (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	2.7E+00				0	GE	pCi/L
Nonvolatile beta	7.7E+00				0	GE	8.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	8.9E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	3.2E+00				0	GE	4.2E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB141C

<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>
N71196.7 E59170.2	33.279782 °N 81.649292 °W	164.7-154.7 ft msl	254.7 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/29/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230		ft msl
pH	11.5		pH
Sp. conductance	108		µS/cm
Water temperature	17.7		°C
Alkalinity as CaCO ₃	77		mg/L
Volume purged	0.92		well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE							µg/L
Barium	82				0	GE							µg/L
Cadmium	<2.0				0	GE							µg/L
Chromium	4.1				0	GE							µg/L
Lead	<3.0				0	GE							µg/L
Lindane	<0.0050				0	GE							µg/L
Mercury	<0.20				0	GE							µg/L
Selenium	<2.0				0	GE							µg/L
Silver	<2.0				0	GE							µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE							µg/L
Benzene	<1.0				0	GE							µg/L
Cobalt	<4.0				0	GE							µg/L
Copper	<4.0				0	GE							µg/L
Cyanide	<5.0				0	GE							µg/L
Nickel	<4.0				0	GE							µg/L
Tin	16		■		1	GE							µg/L
Trichloroethylene	<1.0				0	GE							µg/L
Trichlorofluoromethane	<1.0				0	GE							µg/L
Vanadium	13				0	GE							µg/L
Zinc	7.2				0	GE							µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	1,900		■		2	GE							µg/L
Nitrate as nitrogen	250				0	GE							µg/L
pH	11	J	■	●	2	GE							pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	2.3	JV			0	GE							µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB141C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE							pCi/L
Nonvolatile beta	4.7E+00				0	GE							pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP							pCi/L
Cobalt-60	< 1.0E+01				0	GP							pCi/L
Curium-242	< 1.0E+00				0	GP							pCi/L
Curium-243/244	< 1.0E+00				0	GP							pCi/L
Curium-245/246	< 1.0E+00				0	GP							pCi/L
Iodine-129	< 2.0E+00				0	GP							pCi/L
Plutonium-238	< 1.0E+00				0	GP							pCi/L
Plutonium-239/240	< 1.0E+00				0	GP							pCi/L
Radium-226	< 1.0E+00				0	GP							pCi/L
Radium-228	5.7E+00				0	GP							pCi/L
Strontium-89	< 2.0E+00				0	GP							pCi/L
Strontium-90	< 2.0E+00				0	GP							pCi/L
Technetium-99	< 3.0E+02				0	GP							pCi/L
Thorium-228	< 1.0E+00				0	GP							pCi/L
Thorium-230	< 1.0E+00				0	GP							pCi/L
Thorium-232	< 1.0E+00				0	GP							pCi/L
Thorium-234													
Tritium	< 7.0E-01				0	GE							pCi/mL
Uranium-233/234	< 1.0E+00				0	GP							pCi/L
Uranium-235	< 1.0E+00				0	GP							pCi/L
Uranium-238	< 1.0E+00				0	GP							pCi/L

Calculated Radionuclides

<u>Parameter</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C			0						0		pCi/L
Nickel-63	< 1.0E+01	C			0						0		pCi/L
Plutonium-241	< 4.0E+00	C			0						0		pCi/L
Plutonium-242	< 2.0E-05	C			0						0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB141D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71184.4 E59170.9	33.279756 °N 81.649266 °W	237.8-217.8 ft msl	254.8 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/29/93

04/23/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	250	250	ft msl
pH	4.9	5	pH
Sp. conductance	20	21	µS/cm
Water temperature	16.1	16.2	°C
Alkalinity as CaCO ₃	0	4	mg/L
Volume purged	0.78	0.98	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	23				0	GE	4.1				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	28				2	GE	4.7				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0	J6		•	0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	15				0	GE	9.7				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	< 2.0				0	GE	< 2.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0	J6		•	0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0	J6		•	0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	26		■		0	GE	18				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	830		■		2	GE	170		■		2	GE	µg/L
Nitrate as nitrogen	160				0	GE	290				0	GE	µg/L
pH	5.3	J	■	•	0	GE	5.3	J	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	2.9	JV			1	GE	< 1.0	J6		•	0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB141D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	8.7E+00				1	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	4.8E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	2.7E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	2.4E+04	■			2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.6E+01				1	GE	1.9E+01				1	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB142C

<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>
N73119.0 E53505.3	33.274791 °N 81.667942 °W	171.6-161.6 ft msl	204 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/27/93

04/19/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	200	200	ft msl
pH	5.4	5.6	pH
Sp. conductance	25	26	µS/cm
Water temperature	18.3	18	°C
Alkalinity as CaCO ₃	1	3	mg/L
Volume purged	3.0	3.1	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	<3.0				0	GE	<3.0				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<2.5	J6		•	0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	7.2				0	GE	11				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	24				0	GE	25				0	GE	µg/L
Nitrate as nitrogen	330				0	GE	370				0	GE	µg/L
pH	6.0	J	■	•	0	GE	5.7	J	■	•	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	1.2				0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB142C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	2.4E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB142D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73113.0 E53493.1	33.274758 °N 81.667962 °W	199.7-189.7 ft msl	204.2 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/28/93

04/19/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	200	200	ft msl
pH	4.9	5.4	pH
Sp. conductance	55	45	µS/cm
Water temperature	13	16.9	°C
Alkalinity as CaCO ₃	3	1	mg/L
Volume purged	0.64	0.55	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	28				0	GE	19				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	7.2				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	20				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.1				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	22				0	GE	13				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	1,500				2	GE	260				2	GE	µg/L
Nitrate as nitrogen	50				0	GE	<50				0	GE	µg/L
pH	4.8	J			0	GE	5.2	J			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB142D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab
Gross alpha	< 2.0E+00				0	GE
Nonvolatile beta	3.1E+00				0	GE

2Q93	Mod	GP	H	Flag	Lab	Unit
< 2.0E+00				0	GE	pCi/L
< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab
Americium-241	< 1.0E+00				0	GP
Cobalt-60	< 1.0E+01				0	GP
Curium-242	< 1.0E+00				0	GP
Curium-243/244	< 1.0E+00				0	GP
Curium-245/246	< 1.0E+00				0	GP
Iodine-129	< 2.0E+00				0	GP
Plutonium-238	< 1.0E+00				0	GP
Plutonium-239/240	< 1.0E+00				0	GP
Radium-226	< 1.0E+00				0	GP
Radium-228	< 1.0E+00				0	GP
Strontium-89	< 2.0E+00				0	GP
Strontium-90	< 2.0E+00				0	GP
Technetium-99	8.6E+02				1	GP
Thorium-228	< 1.0E+00				0	GP
Thorium-230	< 1.0E+00				0	GP
Thorium-232	< 1.0E+00				0	GP
Thorium-234						
Tritium	3.6E+02		■		2	GE
Uranium-233/234	< 1.0E+00				0	GP
Uranium-235	< 1.0E+00				0	GP
Uranium-238	< 1.0E+00				0	GP

2Q93	Mod	GP	H	Flag	Lab	Unit
< 1.0E+00				0	GP	pCi/L
< 1.0E+01				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
< 2.0E+00				0	GP	pCi/L
8.7E+02				1	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 3.5E+02				0	GP	pCi/L
3.6E+02		■		2	GE	pCi/mL
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L
< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab
Americium-243	< 3.0E-03	C		0	
Nickel-63	< 1.0E+01	C		0	
Plutonium-241	< 4.0E+00	C		0	
Plutonium-242	< 2.0E-05	C		0	

Mod	GP	H	Flag	Lab	Unit
< 3.0E-03	C		0		pCi/L
< 1.0E+01	C		0		pCi/L
< 4.0E+00	C		0		pCi/L
< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL HSB143C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73738.2 E52773.2	33.274966 °N 81.671072 °W	179.1-169.1 ft msl	222.2 ft msl	4" PVC	S	Barnwell (IIB,)

SAMPLE DATE 01/25/93

04/21/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	210	210	ft msl
pH	5	5.5	pH
Sp. conductance	29	37	µS/cm
Water temperature	19.2	19	°C
Alkalinity as CaCO ₃	1	2	mg/L
Volume purged	2.8	3.4	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	9.5				0	GE	15				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.3				0	GE	2.6				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	2.5				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	45				1	GE	42				1	GE	µg/L
Nitrate as nitrogen	520				0	GE	1,600				0	GE	µg/L
pH	5.0	J	■	●	0	GE	5.9	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB143C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	1.2E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.1E+01				1	GE	1.2E+01				1	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter		Mod	GP	H	Flag	Lab		Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C			0		< 3.0E-03	C			0		pCi/L
Nickel-63	< 1.0E+01	C			0		< 1.0E+01	C			0		pCi/L
Plutonium-241	< 4.0E+00	C			0		< 4.0E+00	C			0		pCi/L
Plutonium-242	< 2.0E-05	C			0		< 2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB143D

<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>
N73754.0 E52774.5	33.275003 °N 81.671099 °W	216.9-196.9 ft msl	222.9 ft msl	4" PVC	S	Water table (IIB ₇)

SAMPLE DATE 01/25/93

04/21/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	210	220	ft msl
pH	4.6	4.9	pH
Sp. conductance	18	21	µS/cm
Water temperature	17	17.9	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	6.2	8.2	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	7.0				0	GE	5.0				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0	J1			0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	4.1				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	5.4				0	GE	<2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	45				1	GE	46				1	GE	µg/L
Nitrate as nitrogen	180				0	GE	510				0	GE	µg/L
pH	5.1	J	■	●	0	GE	5.0	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB143D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	2.5E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	2.2E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.4E+01				1	GE	1.2E+01				1	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB144A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71892.1 E56200.5	33.276475 °N 81.658462 °W	88.6-78.6 ft msl	235.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 01/28/93

04/13/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	170	170	ft msl
pH	7.1	6.9	pH
Sp. conductance	156	163	µS/cm
Water temperature	19.6	19.7	°C
Alkalinity as CaCO ₃	46	37	mg/L
Volume purged	3.4	3.2	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	2.1				0	GE	< 2.0				0	GE	µg/L
Barium	31				0	GE	31				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	6.9				0	GE	6.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	< 2.0				0	GE	< 2.0				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	< 20				0	GE	< 20				0	GE	µg/L
Nitrate as nitrogen	730				0	GE	570				0	GE	µg/L
pH	6.6	J	■	●	0	GE	6.9	J		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0				0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB144A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	3.5E+00				0	GE	2.5E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	1.1E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	1.6E+03		■		2	GP	1.1E+03		■		2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	5.6E+02		■		2	GE	4.5E+02		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB145C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71098.9 E57769.0	33.27728 °N 81.652792 °W	174.7-164.7 ft msl	235.7 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/28/93

04/21/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	210	210	ft msl
pH	7.7	6.2	pH
Sp. conductance	370	353	µS/cm
Water temperature	19.6	19.8	°C
Alkalinity as CaCO ₃	22	21	mg/L
Volume purged	3.6	3.3	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	380				0	GE	130				0	GE	µg/L
Cadmium	< 12				0	GE	< 2.0				0	GE	µg/L
Chromium	< 24				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	0.20				0	GE	0.22				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 12				0	GE	< 2.0	J1			0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 24				0	GE	< 4.0				0	GE	µg/L
Copper	< 24				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	28				0	GE	6.9				0	GE	µg/L
Tin	21		■		2	GE	7.2				0	GE	µg/L
Trichloroethylene	1.8				0	GE	2.6				1	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 48				0	GE	< 8.0				0	GE	µg/L
Zinc	150		■		0	GE	42		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	1,100		■		2	GE	280		■		2	GE	µg/L
Nitrate as nitrogen	34,000		■		2	GE	34,000		■		2	GE	µg/L
pH	6.2	J	■	●	0	GE	6.4	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0				0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB145C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	4.6E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	5.6E+01		■		2	GE	4.0E+01				1	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	1.2E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	4.1E+00				0	GP	2.9E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	8.0E+00		■		2	GP	1.4E+01		■		2	GP	pCi/L
Technetium-99	4.2E+03		■		2	GP	3.5E+03		■		2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.7E+03		■		2	GE	1.7E+03		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter		Mod	GP	H	Flag	Lab		Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C			0		< 3.0E-03	C			0		pCi/L
Nickel-63	< 1.0E+01	C			0		< 1.0E+01	C			0		pCi/L
Plutonium-241	4.8E+00	C			0		< 4.0E+00	C			0		pCi/L
Plutonium-242	2.4E-05	C			0		< 2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB145D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71088.0 E57753.9	33.277231 °N 81.65281 °W	194.2-184.2 ft msl	236.2 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/28/93

04/21/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	220	220	ft msl
pH	6	5.6	pH
Sp. conductance	364	367	µS/cm
Water temperature	20.2	19.5	°C
Alkalinity as CaCO ₃	19	9	mg/L
Volume purged	2.6	3.1	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	250				0	GE	230				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	3.0		■		2	GE	3.3		■		2	GE	µg/L
Selenium	<2.0				0	GE	<2.0				0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	15				0	GE	16				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<2.5				0	GE	µg/L
Nickel	8.3				0	GE	8.0				0	GE	µg/L
Tin	9.3				0	GE	6.3				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	18				0	GE	18				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	1,000		■		2	GE	1,100		■		2	GE	µg/L
Nitrate as nitrogen	45,000		■		2	GE	41,000		■		2	GE	µg/L
pH	6.2	J	■	●	0	GE	6.0	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB145D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	3.9E+01		■		2	GE	3.8E+01		■		2	GE	pCi/L
Nonvolatile beta	4.0E+02		■		2	GE	3.6E+02		■		2	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	1.2E+01				0	GP	1.5E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	7.8E+00		■		2	GP	1.1E+01		■		2	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	1.6E+01				1	GP	2.0E+00				0	GP	pCi/L
Radium-228	4.5E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	4.8E+01		■		2	GP	pCi/L
Strontium-90	1.5E+02		■		2	GP	1.6E+02		■		2	GP	pCi/L
Technetium-99	1.6E+04		■		2	GP	1.7E+04		■		2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	7.0E+03		■		2	GE	8.3E+03		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C			0	< 3.0E-03	C			0	pCi/L
Nickel-63	1.2E+01	C			0	1.5E+01	C			0	pCi/L
Plutonium-241	< 4.0E+00	C			0	< 4.0E+00	C			0	pCi/L
Plutonium-242	< 2.0E-05	C			0	< 2.0E-05	C			0	pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB146A

<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>
N70478.9 E58454.0	33.277028 °N 81.649784 °W	95.6-85.5 ft msl	251.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 01/29/93

04/22/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	180	180	ft msl
pH	7.5	7.4	pH
Sp. conductance	201	208	µS/cm
Water temperature	19.3	19.2	°C
Alkalinity as CaCO ₃	69	57	mg/L
Volume purged	2.7	3.5	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	42				0	GE	42				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	5.0				0	GE	3.7				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	< 2.0				0	GE	< 2.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	< 20				0	GE	< 20				0	GE	µg/L
Nitrate as nitrogen	560				0	GE	200				0	GE	µg/L
pH	7.2	J		●	0	GE	7.8	J		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	2.5	JV			1	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB146A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	2.1E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	2.5E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	2.1E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	< 7.0E-01				0	GE	< 7.0E-01				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB146C

<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>
N70471.6 E58473.1	33.277041 °N 81.649719 °W	182.3-152.3 ft msl	252.3 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/29/93

04/22/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	210	210	ft msl
pH	8.9	9.6	pH
Sp. conductance	78	84	µS/cm
Water temperature	18.6	18.7	°C
Alkalinity as CaCO ₃	21	26	mg/L
Volume purged	3.5	3.3	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	48				0	GE	43				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	7.0				0	GE	7.6				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	<2.0				0	GE	3.0				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	94		■		2	GE	240		■		2	GE	µg/L
Nitrate as nitrogen	670				0	GE	650				0	GE	µg/L
pH	7.7	J		●	0	GE	9.2	J	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	2.4	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB146C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	3.5E+00				0	GE	3.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	1.1E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.0E+01				1	GE	9.5E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB146D

<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>
N70469.7 E58493.0	33.277069 °N 81.649663 °W	224.1-204.0 ft msl	253.1 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/29/93

04/23/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	6.5	5.7	pH
Sp. conductance	24	26	µS/cm
Water temperature	17.9	17.5	°C
Alkalinity as CaCO ₃	4	6	mg/L
Volume purged	1.8	1.2	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	12				0	GE	14				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	3.1				0	GE	34				2	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0	J6		•	0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	84		■		0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	4.6				0	GE	6.8				0	GE	µg/L
Tin	< 2.0				0	GE	< 2.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0	J6		•	0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0	J6		•	0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	14				0	GE	100		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	200		■		2	GE	2,000		■		2	GE	µg/L
Nitrate as nitrogen	460				0	GE	620				0	GE	µg/L
pH	6.1	J	■	•	0	GE	5.8	J	■	•	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	2.5	JV			1	GE	< 1.0	J6		•	0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB146D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	2.6E+00				0	GP	1.6E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	1.6E+04				2	GP	pCi/L
Thorium-228	1.2E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.7E+01				1	GE	1.6E+01				1	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB147D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N73827.9 E55804.3	33.28011 °N 81.863265 °W	235.2-215.2 ft msl	267.3 ft msl	4" PVC	S	Water table (IIB ₇)

SAMPLE DATE 01/28/93

04/20/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	240	240	ft msl
pH	5.8	5.4	pH
Sp. conductance	28	31	µS/cm
Water temperature	18.6	17.2	°C
Alkalinity as CaCO ₃	1	2	mg/L
Volume purged	0.97	0.97	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	9.5				0	GE	10				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	16				2	GE	25				2	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	17				0	GE	31				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	5.9				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	79				0	GE	140				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	1,000				2	GE	740				2	GE	µg/L
Nitrate as nitrogen	600				0	GE	800				0	GE	µg/L
pH	5.5	J			0	GE	5.5	J			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB147D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.6E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.6E+01				1	GE	1.3E+01				1	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB148C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N70151.5 E55344.2	33.271228 °N 81.657336 °W	168.9-158.9 ft msl	250.9 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/29/93

04/23/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	200	200	ft msl
pH	11	11.3	pH
Sp. conductance	307	327	µS/cm
Water temperature	17.4	19.5	°C
Alkalinity as CaCO ₃	54	34	mg/L
Volume purged	0.85	0.84	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	42				0	GE	41				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0	J1			0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GF	<1.0	J6		•	0	GE	µg/L
Cobalt	<4.0				0		<4.0				0	GE	µg/L
Copper	<4.0				0		<4.0				0	GE	µg/L
Cyanide	<5.0				0		<5.0				0	GE	µg/L
Nickel	<4.0				0		<4.0				0	GE	µg/L
Tin	14		■		1		17		■		1	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0	J6		•	0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	2.8				0	GE	4.2				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	700		■		2	GE	670		■		2	GE	µg/L
Nitrate as nitrogen	390				0	GE	550				0	GE	µg/L
pH	11	J	■	•	2	GE	11	J	■	•	2	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	2.3	JV			0	GE	<1.0	J6		•	0	GE	µg/L

Note: See Appendix B for flagging criteria.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB148C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	3.6E+00				0	GE	3.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							3.6E+02				1	GP	pCi/L
Tritium	8.8E-01				0	GE	2.9E+00				0	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB148D

<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>
N70160.9 E55355.7	33.271268 °N 81.657324 °W	218.1-198.1 ft msl	251.1 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/29/93

04/23/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	220	220	ft msl
pH	8.4	8.7	pH
Sp. conductance	118	128	µS/cm
Water temperature	16.8	19.6	°C
Alkalinity as CaCO ₃	39	36	mg/L
Volume purged	0.61	0.72	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	21				0	GE	15				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	< 4.0				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	4.7				0	GE	< 4.0				0	GE	µg/L
Tin	5.4				0	GE	7.9				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	11				0	GE	24				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	450		■		2	GE	370		■		2	GE	µg/L
Nitrate as nitrogen	< 50				0	GE	< 50				0	GE	µg/L
pH	8.9	J	■	●	1	GE	8.2	J		●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	2.5	JV			1	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB148D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	3.1E+00				0	GE	4.6E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.2E+01				1	GE	1.6E+01				1	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB149D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N71338.8 E57286.3	33.277023 °N 81.654529 °W	227.0-207.0 ft msl	240 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/29/93

04/21/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	230	230	ft msl
pH	4.6	4.6	pH
Sp. conductance	20	21	µS/cm
Water temperature	20.5	18.3	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	4.1	4.8	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	3.1				0	GE	3.0				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	2.7				0	GE	2.7				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	70		■		2	GE	57		■		2	GE	µg/L
Nitrate as nitrogen	190				0	GE	480				0	GE	µg/L
pH	5.2	J	■	●	0	GE	5.0	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	1.9	JV			0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB149D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	2.4E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	2.1E+01		■		2	GE	2.5E+01		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Unit	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		pCi/L	< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		pCi/L	< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		pCi/L	< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		pCi/L	< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB150D

<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>
N71692.6 E58692.8	33.2801 °N 81.651512 °W	226.9-206.9 ft msl	239 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/29/93

04/23/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	230	230	ft msl
pH	5	5.2	pH
Sp. conductance	31	33	µS/cm
Water temperature	18.8	18.1	°C
Alkalinity as CaCO ₃	1	4	mg/L
Volume purged	5.0	1.1	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	7.3				0	GE	6.2				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	< 4.0				0	GE	20				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	5.8				0	GE	< 4.0				0	GE	µg/L
Tin	< 2.0				0	GE	< 2.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	4.1				0	GE	8.5				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	770		■		2	GE	1,200		■		2	GE	µg/L
Nitrate as nitrogen	70				0	GE	600				0	GE	µg/L
pH	5.2	J	■	●	0	GE	5.4	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	2.5	JV			1	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB150D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.8E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	1.6E+00				0	GP	3.1E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.9E+01				1	GE	4.4E+01				2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>		<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C			0		< 3.0E-03	C			0		pCi/L
Nickel-63	< 1.0E+01	C			0		< 1.0E+01	C			0		pCi/L
Plutonium-241	< 4.0E+00	C			0		< 4.0E+00	C			0		pCi/L
Plutonium-242	< 2.0E-05	C			0		< 2.0E-05	C			0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB151C

<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>
N72997.9 E54014.9	33.275355 °N 81.666365 °W	180.6-170.6 ft msl	213.6 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 01/28/93

04/19/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	210	210	ft msl
pH	5.1	5.1	pH
Sp. conductance	90	89	µS/cm
Water temperature	19.5	18.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	2.6	8.8	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	20				0	GE	18				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	<2.0				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	3.8				0	GE	4.3				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	110		■		2	GE	110		■		2	GE	µg/L
Nitrate as nitrogen	8,100				1	GE	8,600				1	GE	µg/L
pH	5.7	J	■	●	0	GE	5.0	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB151C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	3.9E+00				0	GE	pCi/L
Nonvolatile beta	7.9E+00				0	GE	1.4E+01				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	1.6E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	3.8E+03		■		2	GP	3.0E+03		■		2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.6E+03		■		2	GE	1.5E+03		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB151D

<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>
N72997.8 E54026.4	33.275373 °N 81.666334 °W	207.6-197.6 ft msl	213.6 ft msl	4" PVC	S	Water table (H ₂ O)

SAMPLE DATE 01/28/93

04/19/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	210	210	ft msl
pH	5.1	5.4	pH
Sp. conductance	20	25	µS/cm
Water temperature	15.1	15.5	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	7.4	16	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	5.7				0	GE	4.9				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	< 4.0				0	GE	< 4.0				0	GE	µg/L
Lead	< 3.0				0	GE	< 3.0				0	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0				0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	CE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	5.4				0	GE	11				0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	< 4.0				0	GE	< 4.0				0	GE	µg/L
Tin	< 2.0				0	GE	< 2.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	21		■		0	GE	8.7				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	59		■		2	GE	38				1	GE	µg/L
Nitrate as nitrogen	780				0	GE	1,200				0	GE	µg/L
pH	5.5	J	■	●	0	GE	5.7	J	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0				0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB151D (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	3.4E+02				0	GP	4.2E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.1E+02		■		2	GE	1.7E+02		■		2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB152C

<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>
N72012.0 E54346.7	33.273716 °N 81.663576 °W	183.1-173.1 ft msl	214.1 ft msl	4" PVC	S	Barnwell (IB ₁)

SAMPLE DATE 01/28/93

04/19/93

FIELD DATA

<u>Parameter</u>	<u>1Q93</u>	<u>2Q93</u>	<u>Unit</u>
Water elevation	200	200	ft msl
pH	5	5.1	pH
Sp. conductance	106	103	µS/cm
Water temperature	17.9	17.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	3.4	3.5	well volumes

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic	<2.0				0	GE	<2.0				0	GE	µg/L
Barium	36				0	GE	33				0	GE	µg/L
Cadmium	<2.0				0	GE	<2.0				0	GE	µg/L
Chromium	<4.0				0	GE	<4.0				0	GE	µg/L
Lead	<3.0				0	GE	<3.0				0	GE	µg/L
Lindane	<0.0050				0	GE	<0.0050				0	GE	µg/L
Mercury	<0.20				0	GE	<0.20				0	GE	µg/L
Selenium	<2.0				0	GE	<2.0	J1			0	GE	µg/L
Silver	<2.0				0	GE	<2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony	<2.0				0	GE	<2.0				0	GE	µg/L
Benzene	<1.0				0	GE	<1.0				0	GE	µg/L
Cobalt	<4.0				0	GE	<4.0				0	GE	µg/L
Copper	<4.0				0	GE	<4.0				0	GE	µg/L
Cyanide	<5.0				0	GE	<5.0				0	GE	µg/L
Nickel	<4.0				0	GE	<4.0				0	GE	µg/L
Tin	2.7				0	GE	<2.0				0	GE	µg/L
Trichloroethylene	<1.0				0	GE	<1.0				0	GE	µg/L
Trichlorofluoromethane	<1.0				0	GE	<1.0				0	GE	µg/L
Vanadium	<8.0				0	GE	<8.0				0	GE	µg/L
Zinc	14				0	GE	14				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum	86		■		2	GE	86		■		2	GE	µg/L
Nitrate as nitrogen	9,800				1	GE	11,000		■		2	GE	µg/L
pH	5.0	J	■	●	0	GE	5.3	J	■	●	0	GE	pH

Non Laboratory Contaminants

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis (2-ethylhexyl) phthalate													
Methylene chloride	<1.0				0	GE	<1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB152C (cont.)

Radiological Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Gross alpha	< 2.0E+00				0	GE	2.5E+00				0	GE	pCi/L
Nonvolatile beta	3.1E+01				1	GE	1.8E+01				0	GE	pCi/L

Measured Radionuclides

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	3.3E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	3.0E+03	■			2	GP	4.3E+03	■			2	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	1.2E+03	■			2	GE	1.1E+03	■			2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

Parameter	Mod	GP	H	Flag	Lab	Mod	GP	H	Flag	Lab	Unit
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

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WELL HSB152D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Formation
N72011.7 E54362.1	33.27374 °N 81.663535 °W	207.0-197.0 ft msl	214.1 ft msl	4" PVC	S	Water table (IIB ₂)

SAMPLE DATE 01/28/93

04/19/93

FIELD DATA

Parameter	1Q93	2Q93	Unit
Water elevation	210	200	ft msl
pH	4.8	5.3	pH
Sp. conductance	35	32	µS/cm
Water temperature	10.1	18	°C
Alkalinity as CaCO ₃	0	0	mg/L
Volume purged	0.90	0.79	well volumes

Hazardous Constituents (264.94, Table 1)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Arsenic	< 2.0				0	GE	< 2.0				0	GE	µg/L
Barium	35				0	GE	21				0	GE	µg/L
Cadmium	< 2.0				0	GE	< 2.0				0	GE	µg/L
Chromium	13				0	GE	4.9				0	GE	µg/L
Lead	150		■		2	GE	39				2	GE	µg/L
Lindane	< 0.0050				0	GE	< 0.0050				0	GE	µg/L
Mercury	< 0.20				0	GE	< 0.20				0	GE	µg/L
Selenium	< 2.0	J1			0	GE	< 2.0	J1			0	GE	µg/L
Silver	< 2.0				0	GE	< 2.0				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Antimony	< 2.0				0	GE	< 2.0				0	GE	µg/L
Benzene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Cobalt	< 4.0				0	GE	< 4.0				0	GE	µg/L
Copper	300		■		0	GE	160		■		0	GE	µg/L
Cyanide	< 5.0				0	GE	< 5.0				0	GE	µg/L
Nickel	10				0	GE	4.2				0	GE	µg/L
Tin	< 2.0				0	GE	< 2.0				0	GE	µg/L
Trichloroethylene	< 1.0				0	GE	< 1.0				0	GE	µg/L
Trichlorofluoromethane	< 1.0				0	GE	< 1.0				0	GE	µg/L
Vanadium	< 8.0				0	GE	< 8.0				0	GE	µg/L
Zinc	200		■		0	GE	120		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Aluminum	2,300		■		2	GE	1,100		■		2	GE	µg/L
Nitrate as nitrogen	170				0	GE	500				0	GE	µg/L
pH	5.5	J	■	●	0	GE	5.3	J	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q93	Mod	GP	H	Flag	Lab	2Q93	Mod	GP	H	Flag	Lab	Unit
Bis (2-ethylhexyl) phthalate													
Methylene chloride	< 1.0				0	GE	< 1.0				0	GE	µg/L

Note: See Appendix B for flagging criteria.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB152D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	< 2.0E+00				0	GE	< 2.0E+00				0	GE	pCi/L
Nonvolatile beta	2.8E+00				0	GE	< 2.0E+00				0	GE	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q93</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-241	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Cobalt-60	< 1.0E+01				0	GP	< 1.0E+01				0	GP	pCi/L
Curium-242	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-243/244	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Curium-245/246	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Iodine-129	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Plutonium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Plutonium-239/240	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-226	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Radium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Strontium-89	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Strontium-90	< 2.0E+00				0	GP	< 2.0E+00				0	GP	pCi/L
Technetium-99	< 3.0E+02				0	GP	< 3.0E+02				0	GP	pCi/L
Thorium-228	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-230	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-232	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Thorium-234							< 3.5E+02				0	GP	pCi/L
Tritium	4.0E+01				2	GE	5.7E+01				2	GE	pCi/mL
Uranium-233/234	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-235	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L
Uranium-238	< 1.0E+00				0	GP	< 1.0E+00				0	GP	pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Mod</u>	<u>GP</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	< 3.0E-03	C		0		< 3.0E-03	C		0		pCi/L
Nickel-63	< 1.0E+01	C		0		< 1.0E+01	C		0		pCi/L
Plutonium-241	< 4.0E+00	C		0		< 4.0E+00	C		0		pCi/L
Plutonium-242	< 2.0E-05	C		0		< 2.0E-05	C		0		pCi/L

Note: See Appendix B for flagging criteria.

- = exceeded holding time.
- = exceeded groundwater protection 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-metallics	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 ($\mu\text{g/L}$)</u>	<u>Mean reported value ($\mu\text{g/L}$)</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

Gross Alpha Activities Well Cluster HSB 71

GWPS 15 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Gross Alpha Activities Well HSB 83D

GWPS 15 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB 84

GWPS 15 pCi/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB 86

GWPS 15 pCi/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well HSB101D

GWPS 15 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Gross Alpha Activities Well HSB104D

GWPS 15 pCi/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well HSB106D

GWPS 15 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Gross Alpha Activities Well HSB111D

GWPS 15 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Gross Alpha Activities Well HSB112D

GWPS 15 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB114

GWPS 15 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB116

GWPS 15 pCi/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB117

GWPS 15 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Gross Alpha Activities Well HSB125D

GWPS 15 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB136

GWPS 15 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Mercury Concentrations Well Cluster HSB 68

GWPS 2 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Mercury Concentrations Well HSB 83D

GWPS 2 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)

Mercury Concentrations Well HSB101D

GWPS 2 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)

Mercury Concentrations Well HSB102D

GWPS 2 $\mu\text{g/L}$

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB103D

GWPS 2 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)

Mercury Concentrations Well HSB104D

GWPS 2 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)

Mercury Concentrations Well Cluster HSB105

GWPS 2 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)

Mercury Concentrations Well HSB106D

GWPS 2 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)

Mercury Concentrations Well HSB108D

GWPS 2 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)

Mercury Concentrations Well HSB116C

GWPS 2 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)

Mercury Concentrations Well HSB125D

GWPS 2 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Mercury Concentrations Well Cluster HSB127

GWPS 2 $\mu\text{g/L}$

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB145D

GWPS 2 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)

Nitrate Concentrations Well Cluster HSB 68

GWPS 10000 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)

Nitrate Concentrations Well Cluster HSB 70

GWPS 10000 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)

Nitrate Concentrations Well HSB101D

GWPS 10000 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)

Nitrate Concentrations Well HSB106D

GWPS 10000 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB107

GWPS 10000 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)

Nitrate Concentrations Well Cluster HSB108

GWPS 10000 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB111

GWPS 10000 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB114

GWPS 10000 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nitrate Concentrations Well HSB118A

GWPS 10000 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)

Nitrate Concentrations Well HSB135D

GWPS 10000 $\mu\text{g/L}$

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB139

GWPS 10000 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)

Nitrate Concentrations Well Cluster HSB145

GWPS 10000 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)

Nitrate Concentrations Well HSB151C

GWPS 10000 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)

Nonvolatile Beta Activities Well Cluster HSB 71

GWPS 50 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB 84

GWPS 50 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nonvolatile Beta Activities Well HSB 86D

GWPS 50 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nonvolatile Beta Activities Well HSB100D

GWPS 50 pCi/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well HSB102D

GWPS 50 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nonvolatile Beta Activities Well HSB105D

GWPS 50 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nonvolatile Beta Activities Well HSB106D

GWPS 50 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB110

GWPS 50 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB115

GWPS 50 pCi/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB117

GWPS 50 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nonvolatile Beta Activities Well HSB126D

GWPS 50 pCi/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well HSB144A

GWPS 50 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Nonvolatile Beta Activities Well HSB151C

GWPS 50 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-226 Activities Well HSB 69

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-226 Activities Well Cluster HSB 86

GWPS 20 pCi/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well HSB105D

GWPS 20 pCi/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well HSB107D

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-226 Activities Well Cluster HSB111

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-226 Activities Well Cluster HSB116

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-226 Activities Well HSB129D

GWPS 20 pCi/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well HSB134D

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-228 Activities Well HSB103D

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-228 Activities Well HSB105D

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-228 Activities Well HSB107D

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-228 Activities Well Cluster HSB111

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-228 Activities Well Cluster HSB114

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-228 Activities Well Cluster HSB116

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-228 Activities Well HSB129D

GWPS 20 pCi/L

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBean (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Radium-228 Activities Well HSB134D

GWPS 20 pCi/L

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 84

GWPS 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 HSB102

GWPS 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 HSB104D

GWPS 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 HSB108D

GWPS 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 HSB111

GWPS 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 HSB117

GWPS 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 HSB118A

GWPS 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 HSB127D

GWPS 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 HSB129

GWPS 20 pCi/mL

Note: W = Water Table (IIB2); B = Barnwell (IIB1); M = McBeaen (IIB1); UC = Upper Congaree (IIA); MC = Middle Congaree (IIA); LC = Lower Congaree (IIA)

Tritium Activities Well HSB138D

GWPS 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 HSB144A

GWPS 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 HSB145D

GWPS 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 HSB151C

GWPS 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)

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Appendix G – Hydrographs

Hydrograph **Well Cluster HSB 65**

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 HSB 66

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 HSB 67

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 68**

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 69

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 70

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 71

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 83

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 84

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)

Hydrograph Well Cluster HSB 86

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 HSB100

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 HSB101

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 HSB102

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 HSB103

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 HSB104

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 HSB105

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 HSB106**

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 HSB107

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 HSB108

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 HSB109

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 HSB110**

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 HSB111

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 HSB112

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 HSB113

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 HSB114

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 HSB115

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 HSB116

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 HSB117

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 HSB118A

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 HSB119A

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 HSB120A

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 HSB121A

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 HSB122A

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 HSB123A

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 HSB124

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 HSB125

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 HSB126

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 HSB127

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 HSB129**

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 HSB130

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 HSB131**

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 HSB132

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 HSB133**

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 HSB134

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 HSB135

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 HSB136

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 HSB137

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 HSB138D

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 HSB139**

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 HSB140

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 HSB141

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 HSB142

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 HSB143

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 HSB144A

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 HSB145

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 HSB146

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 HSB147D

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 HSB148

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 HSB149D

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 HSB150D

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 HSB151

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 HSB152

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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