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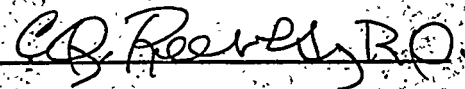
H-AREA HAZARDOUS WASTE MANAGEMENT FACILITY SEMIANNUAL CORRECTIVE ACTION REPORT (U)

FIRST AND SECOND QUARTER 1998

Volume I

Publication Date: September 1998

Authorized Derivative Classifier
and Reviewing Official:



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Does Not Contain Unclassified
Controlled Nuclear Information

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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Executive Summary

The H-Area Seepage Basins consisted of four hydraulically connected, excavated, and unlined basins with a total area of approximately 14 acres. During operation, the basins received wastewater from process evaporators used in the nuclear materials separation facilities and stormwater runoff from the tank farm. The dissolved constituents in the wastewater consisted primarily of nitrates, sodium, metals, and radionuclides. Operations at the basins resulted in the introduction of RCRA hazardous constituents and radionuclides into the groundwater in the immediate vicinity and downgradient of the basins. The basins were closed and capped and were certified closed on August 16, 1991, in accordance with the South Carolina Hazardous Waste Management Regulations (SCHWMR) R.61-79.264.94, Subpart G.

The groundwater in the uppermost aquifer beneath the H-Area Hazardous Waste Management Facility (HWMF), also known as the H-Area Seepage Basins, at the Savannah River Site (SRS) is monitored periodically for various hazardous and radioactive constituents as required by Module III, Section D, of the 1995 Resource Conservation and Recovery Act (RCRA) Renewal Permit (South Carolina Hazardous and Mixed Waste Permit SC1-890-008-989), effective October 5, 1995 (hereinafter referred to as the RCRA permit).

Currently, the H-Area HWMF monitoring network consists of 130 wells of the HSB series and 8 wells of the HSL series screened in the three hydrostratigraphic units that make up the uppermost aquifer beneath the H-Area HWMF (Figures 2–5, Appendix B, Volume I). This report presents the results of the required groundwater monitoring program as identified in provision IIID.H.11.b of the RCRA permit and Section C of the Underground Injection Control Permit Application (hereinafter referred to as the UIC application).

The following constituents were reported above the Groundwater Protection Standards (GWPS) during the first half of 1998 in samples from monitoring wells at the H-Area HWMF: bis(2-ethylhexyl) phthalate, cobalt, gross alpha, lead, mercury, nitrate-nitrite (as N), nonvolatile beta, radium-226, radium-228, tetrachloroethylene, tin, total radium, trichloroethylene, tritium, vanadium, and the sums of both alpha- and beta-emitting radionuclides. The one exceedence each for tin and trichloroethylene, all those for vanadium and bis(2-ethylhexyl) phthalate, and two of those for tetrachloroethylene appear questionable and are being further investigated.

The following radionuclides exceeded the standard for either total alpha emitters or total beta emitters: carbon-14, cobalt-60, iodine-129, nickel-63, strontium-90, technetium-99, uranium-233/234, and uranium-238.

Tritium was the primary constituent detected above the GWPS; it exceeded the GWPS in 87 (64%) of the wells. Carbon-14, nitrate-nitrite as nitrogen, nonvolatile beta, strontium-90, and both the sum of beta emitters and nonvolatile beta each were elevated in 30 or more wells. Cobalt and mercury were the only metals that exceeded the GWPS in more than ten wells, and no organic constituent exceeded the GWPS in more than five wells during the first half of 1998.

Constituents exceeding the GWPS were found most often in Aquifer Zone IIB₂ (Water Table) and in the upper portion of Aquifer Zone IIB₁ (Barnwell/McBean). However, constituents exceeding standards also occurred in several wells screened in the lower portion of Aquifer Zone IIB₁ (Barnwell/McBean) and Aquifer Unit IIA (Congaree).

Table 1 summarizes the maximum activities detected for key radionuclides in the H-Area groundwater during first and second quarter 1998.

Table 1. Maximum Activities of Key Radionuclides

Radionuclide	Maximum Activity	Qtr	Well	Aquifer Unit	GWPS
Tritium	9.4E+04 pCi/mL	First	HSB 86C	Barnwell/McBean	20,000 pCi/L
Nonvolatile beta	2.8E+03	First	HSB 115D	Water Table	50 pCi/L
Iodine-129	9.8E+01	First	HSB 114D	Water Table	Sum of beta < 50 pCi/L
Strontium-90	1.2E+03	First	HSB 68	Water Table	8 pCi/L
Gross alpha	9.7E+01	First	HSB 102D	Water Table	15 pCi/L

Table 2 summarizes the maximum concentrations detected for key metals and nitrates in the F-Area groundwater during first and second quarter 1998.

Table 2. Maximum Concentrations of Key Metals and Nitrates

Constituent	Maximum Concentration	Qtr	Well	Aquifer Unit	GWPS
Nitrate/nitrite	45,000 µg/L	First	HSB 137C	Barnwell/McBean	10,000 µg/L (10 mg/L)
Mercury	6.7 µg/L	First	HSB 105D	Water Table	2 µg/L (.002 mg/L)

Water-level maps indicate that the groundwater linear velocities and directions at the H-Area HWMF have remained relatively constant since the seepage basins ceased to be active in 1988. Groundwater flow in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/ McBean) for first and second quarters 1998 was south or southeast toward Fourmile Branch. Flow in Aquifer Unit IIA (Congaree) was northwest.

The estimated maximum groundwater velocities during the first half of 1998 ranged from approximately 660 to 690 ft/year during first quarter and from 680 to 910 ft/year during second quarter in Aquifer Zone IIB₂ (Water Table). In Aquifer Zone IIB₁ (Barnwell/McBean), velocity estimates ranged from 270 to 340 ft/year during first quarter and from 250 to 260 ft/year during second quarter. The estimated velocity in Aquifer Unit IIA (Congaree) was 350 ft/year for both quarters.

The H-Area Groundwater Remediation WTU continued to operate in a shakedown mode during first and second quarter 1998.

Semiannual Corrective Action Report

Introduction

This report addresses groundwater quality and monitoring data during first and second quarter 1998 for the H-Area Hazardous Waste Management Facility (HWMF). The report fulfills the semiannual reporting requirements of Module III, Section D, of the 1995 Resource Conservation and Recovery Act (RCRA) Renewal Permit (South Carolina Hazardous and Mixed Waste Permit SC1-890-008-989), effective October 5, 1995 (hereinafter referred to as the RCRA permit), and Section C of the Underground Injection Control Permit Application (hereinafter referred to as the UIC permit). The HWMF is described in the introduction of Module III, Section C, of the RCRA permit.

Savannah River Site (SRS) monitors groundwater quality quarterly at the H-Area HWMF and provides results of this monitoring to the South Carolina Department of Health and Environmental Control (SCDHEC) semiannually. Groundwater data quality is compared to the GWPS list found in the RCRA permit. SRS also performs monthly sampling of the treatment unit's effluent in accordance with the UIC permit.

The H-Area HWMF well network monitors three distinct hydrostratigraphic units in the uppermost aquifer beneath the facility. The hydrostratigraphy at the H-Area HWMF is described in permit section IIID.H.2, and the groundwater monitoring system is described in IIID.H.4 and Appendix IIID-B. A detailed description of the uppermost aquifer is included in the RCRA Part B post-closure care permit renewal application for the H-Area HWMF submitted to SCDHEC in October 1995.

System Evaluation

The H-Area WTU operated in a shakedown mode during first and second quarter 1998. Approximately 4.2 million gallons of water were treated and injected during this period. Due to the limited and intermittent operations thus far, no prolonged impact to groundwater from operation of the WTU could be established.

Water Quality and Elevation Data Tables (IIID.H.11.b.i)

Water quality, elevation data, and field parameters for all H-Area wells during the first half of 1998 are presented in Table C-1 of Appendix C. Table C-1 also identifies modifiers that explain laboratory accuracy and precision. Definitions of the abbreviations and the modifiers used in Table C-1 as well as descriptions of holding times, data rounding, and data qualification practices are provided in Appendix C. Analytical results in Table C-1 are rounded to two significant digits. Constituents that exceeded either the GWPS or EPA-approved holding times are noted by symbols in columns headed ST and H, respectively.

Table 3 summarizes the wells that experienced sampling problems during first and second quarter 1998.

Table 3. Variances in Well Sampling During First and Second Quarter 1998

Qtr	Well	Variance and Reason	Action
First	HSB 147D	Metals were not analyzed due to high turbidity.	Correct procedures.
First	HSB 152D	Cobalt, copper, and nickel were not analyzed due to high turbidity.	Correct procedures.
First	HSL 3D	Tin was not analyzed due to high turbidity.	Correct procedures.
Second	HSB 111D	No current	Fix current problem.
Second	HSB 65A	Volume purged was estimated due to flow meter problems	Fix flow meter.
Second	HSB 137D	No water in standpipe during synchronous water level measurements.	Attempt sampling next quarter.
Second	HSB 152D	No water in standpipe during synchronous water level measurements.	Attempt sampling next quarter.

Wells HSB 111D was successfully sampled during third quarter. The metals variances occurred due to a procedure that requires the turbidity to be less than 15 NTU to analyze for metals. The basis of this procedure was that high turbidity is associated with elevated metals results. The procedure is being revised to allow for the processing of metals analyses in such samples in accordance with permit requirements. Results will be reported along with the appropriate qualifiers. As soon as the problem was discovered, the analytical subcontractor was directed to use the excess water from the radiological aliquots (which are preserved in a manner similar to the metals) to obtain the metals analyses. This ensured that the metals analyses would not be missed in any additional wells while the procedure is being revised. In addition, a note will be added to future chains requiring the metals analyses to be conducted regardless of turbidity.

SRS invested significant time and effort during the summer of 1998 to identify and fix wells with problems. The maintenance tracking system has been significantly improved, and every attempt is being made to both fix problems identified by the samplers and resample the wells within the same quarter. Wells that are sampled late in the quarter are more difficult to revisit during the same quarter.

Analytical Results

All data received from the contracted laboratories are validated and verified according to EPA guidelines.

Results for analytes that exceeded the GWPS (Appendix A) during first and second quarters 1998 in the H-Area HWMF wells are indicated in Table C-1 (Appendix C) by a black square in the column headed ST. Out of the 48 constituents on the GWPS list, the following 25 constituents were reported above the GWPS during the first half of 1998 in samples from wells at the H-Area HWMF:

Bis(2-ethylhexyl) phthalate	Mercury	Technetium-99	Uranium-238
Carbon-14	Nickel-63	Tetrachloroethylene	Vanadium
Cobalt	Nitrate-nitrite (as N)	Tin	Sum of alpha
Cobalt-60	Nonvolatile beta	Total radium	Sum of beta
Gross alpha	Radium-226	Trichloroethylene	
Iodine-129	Radium-228	Tritium	
Lead	Strontium-90	Uranium-233/234	

The following radionuclides individually exceeded the standard for either sum of alpha or sum of beta:

Carbon-14	Nickel-63	Uranium-233/234
Cobalt-60	Strontium-90	Uranium-238
Iodine-129	Technetium-99	

Several of these results are questionable. Bis(2-ethylhexyl) phthalate is a common laboratory contaminant. The trichloroethylene result above GWPS is qualified with JV, indicating that contamination was found in the associated blank, and two of the reported results for tetrachloroethylene are questionable. There is no clear spatial association of the reported hits in cobalt. SRS is investigating these results further, including on-site examination of some of the laboratory records.

Tritium is the most widespread contaminant, and it exceeds the GWPS in all three aquifers (maps 28–30 in Appendix H). Elevated activities north of the basins are probably due to tritium sources in the burial grounds. The highest activities are downgradient of the seepage basins in the Water Table and the Barnwell/McBean aquifer zones. Tritium is also present in the Water Table aquifer zone along the sewer line to the basins. Tritium exceeds GWPS in the Congaree aquifer unit below the western end of the basins.

Nitrate or nitrate-nitrite (as N) (maps 16–18) is present in the Water Table and Barnwell/McBean aquifer zones under and south of the basins. Gross alpha (maps 4–6), uranium-233/234 (maps 31–33), uranium-238 (maps 34–36), and iodine-129 (maps 7–9) are present in a few wells. Nonvolatile beta and strontium-90 (maps 19–24) are present in the Water Table aquifer zone below and south of the basins and, to a lesser extent, in the Barnwell/McBean aquifer zone. Technetium-99 (maps 25–27) is present in the Water Table and Barnwell/McBean aquifer zones below and south of the western end of the basins. Mercury (maps 13–15) is present in the Water Table and Barnwell/McBean aquifer zones below and south of the eastern end of the basins.

Background Results

Wells HSB 66, 83A, and 85B are the background wells for the H-Area HWMF. They are screened in the Water Table, Middle Congaree, and lower Barnwell/McBean aquifer zones, respectively. No analyses from the background wells were found to exceed their GWPS during first and second quarter 1998.

Appendix IX Analyses (Third Quarter 1997)

Appendix IX analyses were performed during third quarter 1997, as required by the RCRA permit. The following three constituents not already on the RCRA permit GWPS list were reported above their detection limits based on the third quarter 1997 sampling event:

- Phorate in HSB 105D
- Chlordane and endosulfan I in HSB 113D
- Chlordane in HSB 114D

Confirmation sampling was performed during fourth quarter 1997, and the analytical results (Appendix F) were received during first quarter 1998. None of these constituents were detected above quantitation limits in the confirmation samples. Consequently, no changes have been made to the GWPS list provided in the RCRA permit.

Water Elevations

Synchronous water elevations were measured on March 17 through 23 during first quarter 1998 and on June 17 through 22 during second quarter 1998 in compliance with permit condition IIID.H.7.

Synchronous water levels were not measured at wells HSB 137D and HSB 152D during second quarter because there was no water in the standpipe.

Hydrographs (IIID.H.11.b.ii)

Hydrographs showing the water elevations for the H-Area HWMF wells are provided in Appendix E. Hydrograph data include synchronous measurements and measurements taken during sampling. Clustered wells are shown on a single graph.

Time vs. Concentration Plots (IIID.H.11.b.iii)

Appendix D contains time series plots for mercury, nitrate (or nitrate/nitrite), gross alpha, iodine-129, nonvolatile beta, strontium-90, and tritium for selected wells. These wells were selected to delineate the extent of the constituent distribution, to monitor the migration of the constituents, and to follow trends of constituents present at high levels. Results reported as below detection are not plotted.

Isoconcentration Maps (IIID.H.11.b.iv)

Isoconcentration maps for iodine-129 and strontium-90 in the three hydrostratigraphic units during first quarter 1998 and for mercury, nitrate, gross alpha, nonvolatile beta, and tritium during second quarter 1998 are presented in Appendix H.

Potentiometric Maps (IIID.H.11.b.v)

Piezometric and potentiometric surface maps for the monitored water-bearing units during first and second quarter 1998 are located in Appendix H. Synchronous water elevations measured within a 2-week time span were used to construct the piezometric and potentiometric maps. The maps illustrate groundwater flow patterns beneath the H-Area HWMF for first and second quarter 1998.

Linear groundwater velocity calculations provide a basis for estimates of the transport rate of constituents originating from the H-Area HWMF. Flow rates in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) are calculated along two paths (designated flow paths A and B) to characterize the approximate maximum and minimum groundwater velocities within these units in areas downgradient from the basins. The velocity is calculated along a single flow path for Aquifer Unit IIA (Congaree).

Groundwater velocities 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 value dh is the difference in head, and dl is the length of the flow path. Flow path length is calculated to the nearest 100 ft for path B of Aquifer Zone IIB₁ (Barnwell/ McBean) and to the nearest 50 ft for the remaining flow paths. Maximum velocity (flow in feet per day in the equation above) is calculated and rounded to two significant digits, then multiplied by 365 and rounded to two significant digits to obtain velocity in feet per year. Velocity 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, velocity estimates are accurate to an order of magnitude only.

Maximum horizontal groundwater velocity estimates for the hydrostratigraphic units during first and second quarter 1998 are provided in Table 4.

Table 4. Horizontal Groundwater Velocities in the Hydrostratigraphic Units beneath the H-Area HWMF

	Aquifer Zone IIB ₂ (Water Table)	Aquifer Zone IIB ₁ (Barnwell/McBean)	Aquifer Unit IIA (Congaree)
K _n (ft/day)	20–40	1.5–10	65
Effective porosity	20%	20%	20%
dh/dl	Varies	varies	Varies
Velocity (ft/year) (1Q98)	660–690	270–340	350
Velocity (ft/year) (2Q98)	680–910	250–260	350

During first quarter 1998, flow in Aquifer Zone IIB₂ (Water Table) was southeast toward Fourmile Branch. During second quarter, flow in Aquifer Zone IIB₂ was generally south along both flow paths. Flow in Aquifer Zone IIB₁ (Barnwell/McBean) was southeast along both flow paths during both quarters. Flow in Aquifer Unit IIA (Congaree) was northwest.

Volume and Rates of Groundwater Pumped (IIID.H.11.b.vi)

Table 5 summarizes the pump rates, monthly volumes, and total volumes pumped from each extraction well during first and second quarter 1998. The pump rates represent the average pump rate for each well. The volumes are estimated due to instrument errors. SRS is implementing corrective measures to solve the instrumentation problems during the current WTU modification period. Corrective measures have included the installation of lightning protection and the revision of calibration procedures during third quarter 1998. The well totals are based on recorded well performance and extraction totals.

Table 5. Volume Pumped (in gal) During the First Half of 1998

Well	Pump Rate * (gpm)	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998	Cum. Total
HEX-1	10	26,881	124,436	300,482	48,176	0	231,811	731,786
HEX-2	5	0	0	0	0	0	23,128	23,128
HEX-3	10	21,143	108,652	284,835	44,523	0	115,981	575,134
HEX-4	10	26,751	117,227	285,351	50,087	0	198,389	677,805
HEX-5	0	0	0	0	0	0	0	0
HEX-6	0	0	0	0	0	0	0	0
HEX-7	0	0	0	0	0	0	0	0
HEX-8	0	0	0	0	0	0	0	0
HEX-9	5	14,389	88,828	68,730	36,920	0	43,803	252,670
HEX-12	5	813	0	77,593	18,478	0	48,009	144,893

Well	Pump Rate * (gpm)	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998	Cum. Total
HEX-16	10	25,620	116,182	291,447	0	0	140,557	573,806
HEX-17	15	2,799	0	188,590	48,020	0	142,833	382,242
HEX-18	15	0	0	387,870	51,988	0	235,319	675,177
HEX-19	5	14,204	43,275	45,102	14,308	0	46,875	163,764
Total	90	132,600	598,600	1,930,000	312,500	0	1,226,705	4,200,405

*Average flow rates estimated due to instrument flow errors.

Volume and Rates of Treated Groundwater Injected (IIID.H.11.b.vii)

Table 6 summarizes the pump rates, monthly volumes, and total volumes pumped from each injection well during first and second quarter 1998. The pump rates represent the average pump rate for each well. The volumes are estimated due to instrument errors. SRS is implementing corrective measures to solve the instrument problems during the current WTU modification period. Corrective measures have included the installation of lightning protection and the revision of calibration procedures during third quarter 1998. The well totals are based on recorded performance and injection totals. The difference in total volume extracted (Table 5) and total volume injected (Table 6) is due to water retained in the WTU system.

Table 6. Volume Injected (in gal) During the First Half of 1998

Well	Pump Rate * (gpm)	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998	Cum. Total
HIN-1	5	450	2,166	63,853	6,595	0	53,814	126,878
HIN-2	10	17,804	72,045	163,856	11,802	0	68,941	334,448
HIN-3	5	3,542	37,887	74,015	22,163	0	113,940	251,547
HIN-4	5	17,018	71,609	151,762	47,437	0	114,765	402,591
HIN-5	10	21,241	91,295	182,344	41,245	0	119,489	455,614
HIN-6	5	21,927	94,536	207,788	12,482	0	70,427	407,160
HIN-7	5	17,780	83,450	183,527	47,406	0	91,324	423,487
HIN-8	10	22,689	110,260	239,867	52,697	0	89,367	514,880
HIN-9	5	5,649	16,602	57,858	232	0	34,893	115,234
HIN-10	5	0	2,250	68,844	10,182	0	184,853	266,129
HIN-17 (HIW-11D)	30	0	0	477,444	62,040	0	258,600	798,084

Well	Pump Rate * (gpm)	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998	Cum. Total
HIN-18 (HIW-21C)	5	0	0	7,842	1,019	0	587	9,448
Total	100	128,100	582,100	1,879,000	315,300	0	1,201,000	4,105,500

*Average flow rates estimated due to instrument flow errors.

Rainfall and Recharge (IIID.H.11.b.viii)

Table 7 summarizes the rainfall data for H Area during the first and second quarter 1998. Recharge to groundwater is estimated to be 30% of rainfall in the General Separations Area.

Table 7. Rainfall (in.) during the First Half of 1998

January	February	March	April	May	June	Total
8.17	7.20	7.36	6.01	3.59	5.14	37.47

Summary of System Downtime (IIID.H.11.c.ix)

The H-Area WTU operated in a shakedown mode during first and second quarter 1998. The WTU has encountered several problems preventing full-scale operation. These problems have included water quality problems, excessive sludge retention in the clarifier, uncertainties in the life of the ion exchange column charge, capacity problems with the sludge handling system, excessive secondary waste generation, and limited injection capacity.

SRS has initiated significant efforts to correct the clarifier carryover, sludge handling, and water quality problems. These included construction of a polymer addition skid, additional ion exchange column prefilters, a filter press filtrate return tank, sludge tank, an additional filter press and dryer, a Polyblend system, duplex strainers, and an activated carbon bed. Improvements were also made for lightning protection. These actions resulted in the WTU being down throughout the month of May. The H-Area WTU is still experiencing problems, and additional process improvements are anticipated prior to commencing full-scale operations. In addition to the system modifications noted above, approval was requested and granted for the temporary use of two existing test injection wells (HIW-11D and HIW-21C) during the 100-hour test. Approval was later requested and granted for the installation of six new injection wells and the permanent inclusion of HIW-11D and HIW-21C in the injection network. The addition of these eight injection wells will help the system meet the design injection capacity of 150 gpm. A modeling study was performed to identify the optimum locations for these new injection wells.

Table 8 summarizes the operating activities and downtime for first and second quarter 1998. For the purpose of this table, SRS considered the system operational if water was being pumped to the injection wells. Therefore, the hours of operation do not always coincide with the hours of operation for the WTU.

Table 8. Operations Activities and Downtime during the First Half of 1998

Month	Dates	Hours Up	Hours Down	Run Percent	Explanation
January	1–19	0	456	0	24-hour operations were on hold pending corrective action plan development and approval by SCDHEC due to exceeding UIC permit limits (e.g., high beta).
	20–21	2.5	45.5	5.2	WTU down due to PLC malfunction.
	22–25	0	96	0	WTU down due to Adtechs installing mixer in clarifier.
	26–27	14	34	29.2	WTU down due to leak in bottom of clarifier and Split-430 mixer problems.
	28–31	2.75	93.25	3	Adtechs rebuilt and installed sludge pumps. UIC sample collected January 28.
February	1	0	24	0	Down for weekend.*
	2	15.5	8.5	65	WTU started at 1600; delayed startup due to late approval of RWP and procedural change for Radcon scaler.
	3	23.5	0.5	98	Continuous run since 2/2/98 1600. Short down time due to clarifier valve leaking at 0830. Restarted at 0900.
	4–5	27	21	56	WTU down due to broken instrument air line.
	6–8	0	72	0	WTU down for normal weekend shutdown.*
	9–15	0	168	0	WTU down due to trouble shooting equipment.
	16	19.5	4.5	81.3	WTU down at 1300 due to split 430 pump. Restarted at 1415.
	18–28	0	264	0	WTU system down due to air line leaks.
March	1–2	0	48	0	WTU was down for RO permeate cleaning and pressure testing.
	3	10.1	13.9	42.1	WTU was down due to a general electrical trip and sludge pump pluggage.
	4	0	24	0	WTU was down for repairs on the clarifier mixer agitator.

Month	Dates	Hours Up	Hours Down	Run Percent	Explanation
	5	19.5	4.5	81.3	WTU was down for repairs on the flow control valve on RO concentrate feed to clarifier.
	6	23.0	1.0	95.8	WTU was down due to a plug in the Split 430 pump and calibration.
	9	15.7	8.3	65.4	WTU shut down due to Split 430 pump failure.
	10	0	24	0	WTU remained down to repair Split 430 pump and to begin replacing piping on the sludge system.
	11	0	24	0	WTU remained down as the sludge repiping and hydrotesting were completed. SCDHEC-UIC was notified that the October UIC compliance sample results had been received, and the sample results indicated elevated levels of some constituents. Based on changes made to the process to address the constituents of concern, approval was given to restart the system.
	12	0	24	0	WTU down to desludge the clarifier and sludge tank.
	13	0	24	0	WTU unable to restart due to inability to contact SCDHEC-UIC for approval to restart after receipt of unsatisfactory sample results for November and December 1997.
	14-15	0	48	0	Restart was delayed pending SCDHEC-UIC approval to restart.
	16	18.5	5.5	77.1	SCDHEC-UIC was notified that the November and December UIC compliance sample results had been received, and the sample results indicated elevated levels of some constituents. Based on changes made to the process to address the constituents of concern, approval was given to restart the system.
	17	11	13	45.8	WTU shut down due to sludge carryover in clarifier. UIC compliance sample collected.

Month	Dates	Hours Up	Hours Down	Run Percent	Explanation
	18	14	10	58.3	WTU shut down due to Split 430 pump failure and restarted, then shut down due to carryover and high pH in the clarifier.
	19	6	18	25	WTU shut down due to the Split 430 pump not working and ROC feed valve malfunctioning.
	20	17.5	6.5	72.9	WTU shut down due to high level in RO concentrate tank and high pressure at ion exchange prefilters. ROC feed valve malfunctioning.
	21	18	6	75	WTU shut down due to problems with Split 430 pump and filter press.
	22	7.5	16.5	31.25	WTU shut down due to desludging clarifier and replacing filter press filter media, as well as problems with filter press.
	23	19	5	79.2	WTU down due to filter press problems.
	24-25	34.5	13.5	71.9	WTU down due to high DP on prefilters and high sludge levels in the clarifier.
	26	20	4	83.3	WTU down due to carryover in the clarifier and sludge pump malfunction.
	27	17	7	70.8	WTU down for cleaning of clarifier baffles and replacement of filter press screens.
	29	16.5	7.5	68.8	WTU down due to clarifier discharge valve malfunction.
	30	13.5	10.5	56.3	WTU down for repairs to the sludge pump and clarifier discharge valve.
	31	18.5	5.5	77.1	WTU was shut down due to clarifier upset and carryover into clearwell.
April	1	9	15	37.5	WTU was shut down due to a leak from the effluent tank caused by a blown out NTU sensor and Split 430 pump failure.
	2	5	19	20.8	WTU was shut down due to process sample result indicating depletion of zeolite resin.

Month	Dates	Hours Up	Hours Down	Run Percent	Explanation
	3-6	0	96	0	WTU down for maintenance to remove resin from the zeolite column.
	7	0	24	0	WTU down to inspect zeolite column backwash system.
	8	0	24	0	WTU down for maintenance to refill zeolite column.
	9	0	24	0	WTU down for system realignment and recirculating water currently in system.
	10	19	5	79.2	WTU down for system alignment. WTU started and operated through shift turnover and continued through the night shift.
	11	14	10	58.3	WTU shut down due to high level in clarifier clearwell caused by clearwell control valve malfunction. WTU shut down again for preparations for the planned outage to install planned process modifications.
	12	0	24	0	WTU down to prepare system for outage and installations of planned process modifications.
	13-26	0	336	0	WTU down to install planned process modifications. UIC compliance sample collected April 14.
	27	0	24	0	Installations of major modifications physically complete.
	28	0	24	0	Hydrostatic tests of major modifications performed.
	29	0	24	0	Walk-down inspection conducted by SCDHEC-Aiken.
	30	0	24	0	WTU down to resolve maintenance issues to facilitate startup. SCDHEC-UIC was notified that the January and February UIC compliance sample results had been received, and the sample results indicated elevated levels of some constituents. Based on changes made to the process to address the constituents of concern, approval was given to restart the system.

Month	Dates	Hours Up	Hours Down	Run Percent	Explanation
May	1-7	0	168	0	WTU down to resolve maintenance issues.
	8-10	0	72	0	WTU down to complete a chemical compatibility review of the process materials.
	11-17	0	168	0	WTU down to complete a chemical compatibility review of the process materials. Began planned process changes.
	18-31	0	336	0	WTU down to install planned process changes. SCDHEC-UIC was notified on May 27 that the March UIC compliance sample results had been received and the sample results indicated elevated levels of some constituents. Based on changes made to the process to address the constituents of concern, approval was given to restart the system.
June	1-2	0	48	0	WTU down to install planned process changes.
	3	0	24	0	Cold water testing of the WTU began in preparation for the 100-hour test.
	4	0	24	0	Cold water testing of the WTU continued. SCDHEC-UIC walk downs. SCDHEC-UIC was notified that the April UIC compliance sample results had been received, and the sample results indicated elevated levels of some constituents. Based on changes made to the process to address the constituents of concern, approval was given to restart the system.
	5	0	24	0	Cold water testing of the WTU ceased when it was determined that DOWEX from the DOWEX system was carrying over to the carbon bed. WTU system down to repair DOWEX system.
	6-11	0	144	0	WTU system down to repair DOWEX system.

Month	Dates	Hours Up	Hours Down	Run Percent	Explanation
	12	0	24	0	WTU system down to install polymer piping and control valves.
	13	1	23	4.2	WTU system down to check and repair piping leaks and complete hydrostatic test of the polymer system
	14	2	22	8.3	WTU system down to check and repair piping leaks and FeCl ₃ regulator/pump problems.
	15	6	18	25	WTU system down to check and repair piping leaks and FeCl ₃ regulator/pump problems. All flow transmitters on the RO modules were opened and inspected.
	16	8	16	33.3	WTU system down to remove resin and sludge from the flocculation tank to the filter press.
	17-18	0	48	0	WTU system down awaiting DOWEX loading.
	19	0	24	0	System down to load the DOWEX. WTU began recirculating water. System also down due to bad in-line pH probe between the ROC tank and the flocculation tank. Lightning strike caused the injection and extraction wells to be down.
	20	17	7	70.8	WTU system down to backflush the roughing filter due to carryover from the clarifier. Switched to carbon roughing filter. Continued to work on HEX-9 and HEX-16.
	21	8	16	33.3	WTU system down due to high differential pressure on zeolite column from clarifier carryover and to remove top layer of zeolite.
	22	19.5	4.5	81.3	WTU down to inspect roughing filters and remove sludge from the sludge tank.
	23	9.5	14.5	39.6	WTU down to flush out polymer system and de-sludge clarifier
	24	9.4	14.6	39.2	WTU down to de-sludge clarifier. UIC compliance sample collected.

^b
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Unclassified

WSRC-TR-98-00148
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Appendix A

Groundwater Protection Standard

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Table A-1. Groundwater Protection Standard

Established for the H-Area Hazardous Waste Management Facility by the 1995 RCRA Renewal Permit (SCDHEC, 1995).

Analyte	Concentration/ Activity Limit	Unit
<i>Inorganic Constituents</i>		
Antimony	6	µg/L
Arsenic	50	µg/L
Barium	2,000	µg/L
Cadmium	5	µg/L
Chromium	100	µg/L
Cobalt	3 ^a	µg/L
Copper	1,300	µg/L
Cyanide	20 ^b	µg/L
Lead	15	µg/L
Mercury	2	µg/L
Nickel	100	µg/L
Nitrate	10,000	µg/L
Selenium	50	µg/L
Silver	50	µg/L
Tin	2.6 ^a	µg/L
Vanadium	4 ^a	µg/L
Zinc	5,000	µg/L
<i>Organic Constituents</i>		
Benzene	5	µg/L
Bis(2-ethylhexyl) phthalate	10 ^c	µg/L
Dichloromethane (Methylene chloride)	5	µg/L
Tetrachloroethylene	5	µg/L
Trichloroethylene	5	µg/L
Trichlorofluoromethane	5 ^d	µg/L
<i>Radionuclide Constituents</i>		
Gross alpha	15	pCi/L
Nonvolatile beta	50 ^f	pCi/L
Tritium	20,000	pCi/L
Americium-241	Sum of alphas <15 pCi/L	pCi/L
Carbon-14	Sum of beta dose <4 mrem/yr and <50 pCi/L	pCi/L
Cobalt-60	Sum of beta dose <4 mrem/yr and <50 pCi/L	pCi/L
Curium-242	Sum of alphas <15 pCi/L	pCi/L
Curium-243/244	Sum of alphas <15 pCi/L	pCi/L
Curium-245/246	Sum of alphas <15 pCi/L	pCi/L
Iodine-129	Sum of beta dose <4 mrem/yr and <50 pCi/L	pCi/L
Nickel-63 ^e	Sum of beta dose <4 mrem/yr and <50 pCi/L	pCi/L

Analyte	Concentration/ Activity Limit	Unit
Plutonium-238	Sum of alphas <15 pCi/L	pCi/L
Plutonium-239/240	Sum of alphas <15 pCi/L	pCi/L
Radium-226	Total radium <5 pCi/L	pCi/L
Radium-228	Sum of beta dose <4 mrem/yr and <50 pCi/L and total radium <5 pCi/L	pCi/L
Strontium-90	Sum of beta dose <4 mrem/yr and <50 pCi/L and strontium-90 <8 pCi/L	pCi/L
Technetium-99	Sum of beta dose <4 mrem/yr and <50 pCi/L	pCi/L
Thorium-228	Sum of alphas <15 pCi/L	pCi/L
Thorium-230	Sum of alphas <15 pCi/L	pCi/L
Thorium-232	Sum of alphas <15 pCi/L	pCi/L
Total alpha-emitting radium ⁹	5	pCi/L
Total radium (radium-226 and -228)	5	pCi/L
Uranium-233/234	Sum of alphas <15 pCi/L	pCi/L
Uranium-234	Sum of alphas <15 pCi/L	pCi/L
Uranium-235	Sum of alphas <15 pCi/L	pCi/L
Uranium-238	Sum of alphas <15 pCi/L	pCi/L

- a Concentrations are observed background levels.
- b Concentration is the practical quantitation limit (PQL) for EPA Method 335.2 (used by WA) and 335.3 (used by *f*).
- c Concentration is the Appendix IX PQL for EPA Method 8270.
- d Concentration is the Appendix IX PQL for EPA Method 8240.
- e The activity of nickel-63 is calculated based on the activity of cobalt-60 until development of a reliable analytical method as required by permit condition IIIC.H.6.f.
- f 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/yr.
- g Results reported by this analysis, which does not distinguish among radium-223, radium-224, and radium-226, are assumed to be primarily radium-226 and are compared to the GWPs for total radium.

Appendix B

Figures

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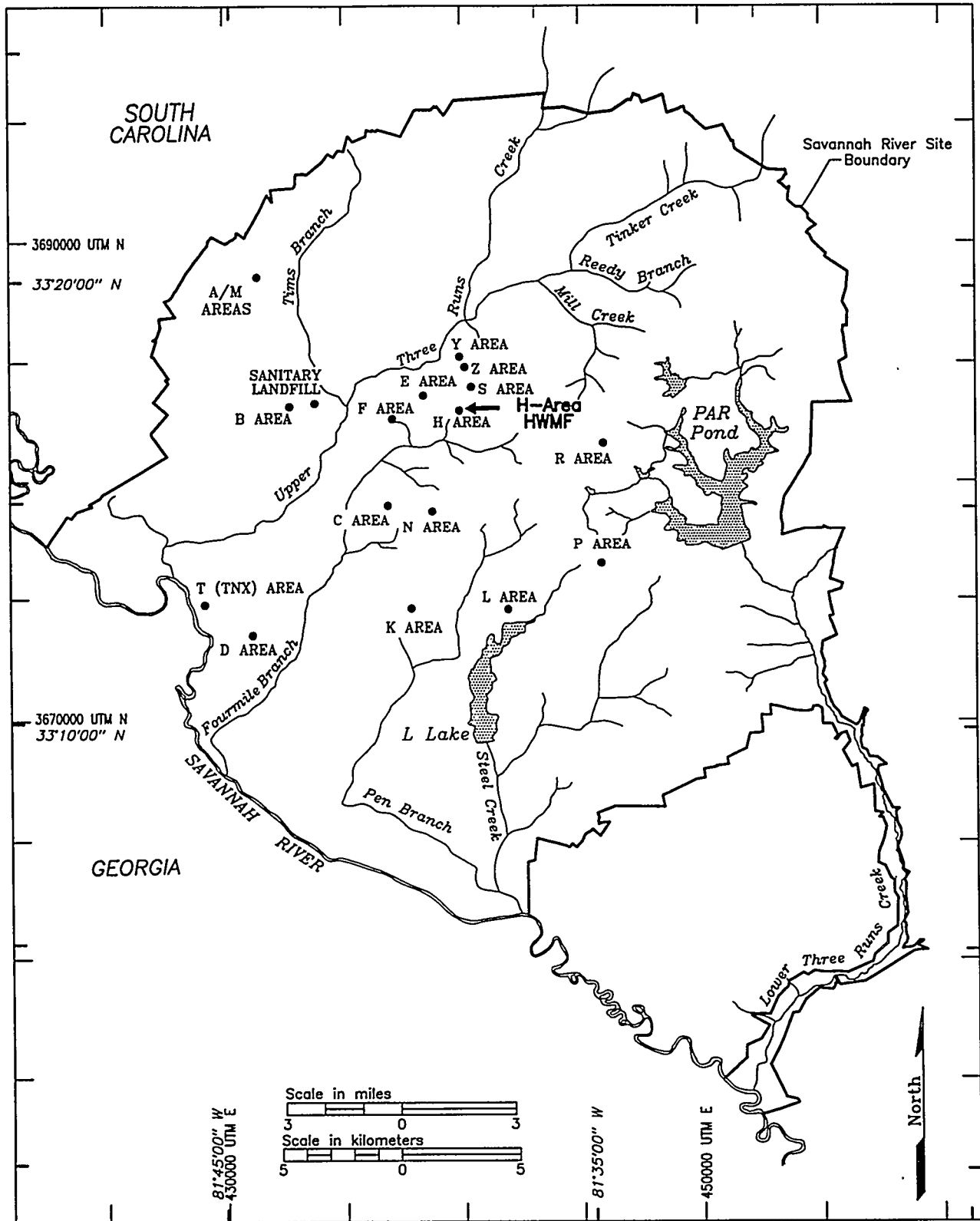


Figure 1. Location of the H-Area HWMF at the Savannah River Site

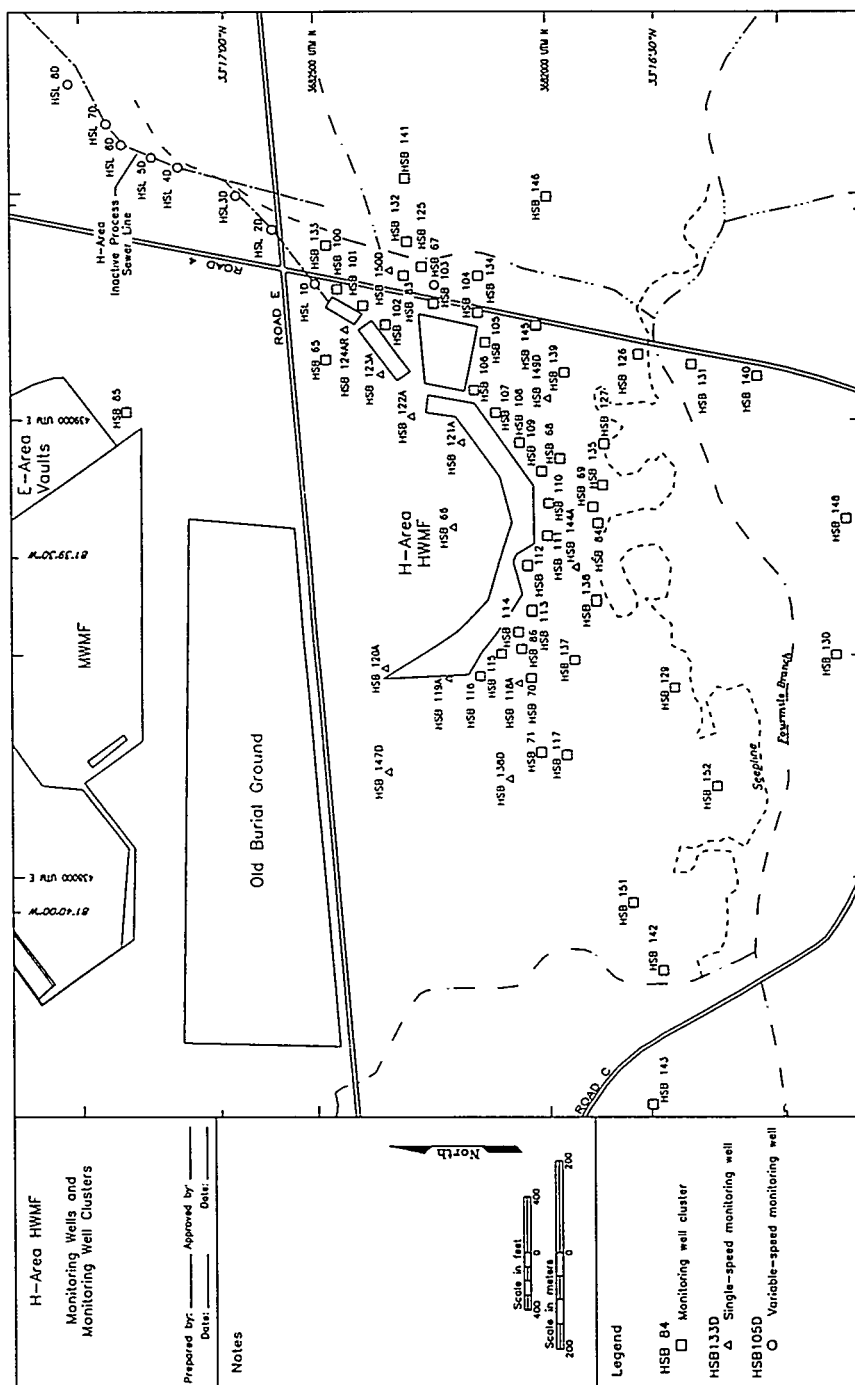


Figure 2. Location of the Groundwater Monitoring Wells at the H-Area HWMF

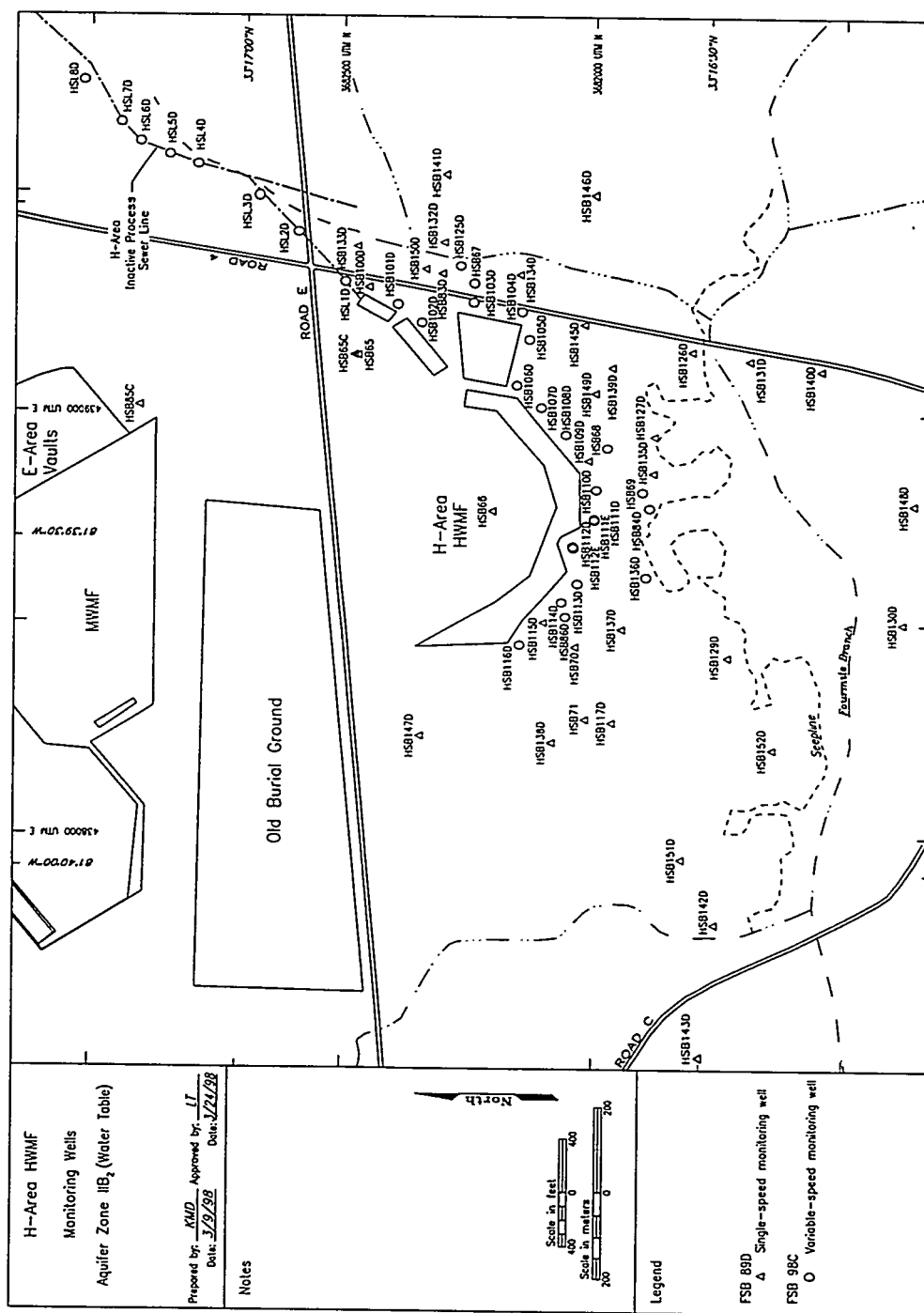


Figure 3. Location of Aquifer Zone IIB₂ (Water Table) Groundwater Monitoring Wells at the H-Area HWMF

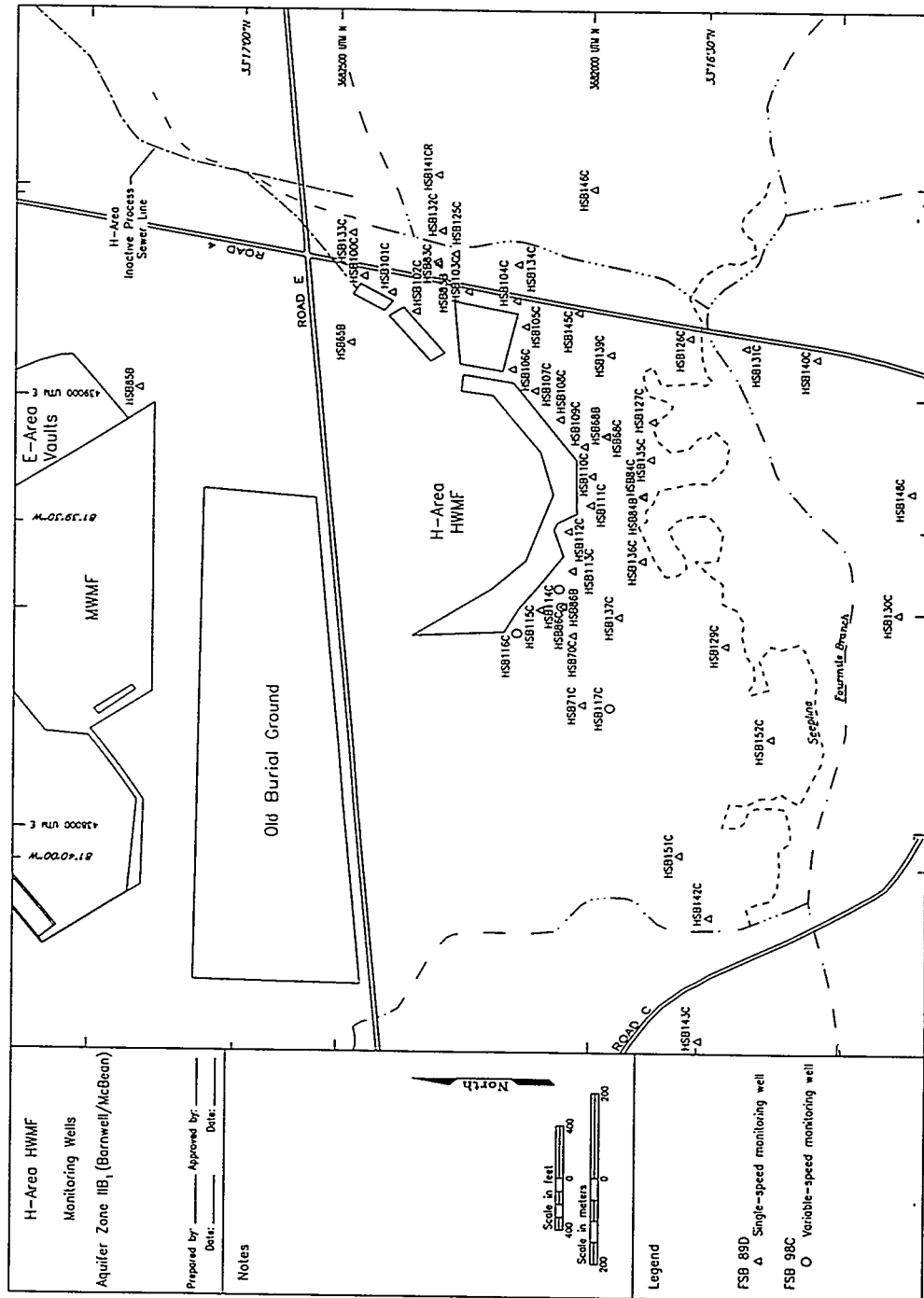


Figure 4. Location of Aquifer Zone IIB1 (Barnwell/McBean) and groundwater Monitoring Wells at the H-Area HWMF

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Appendix C

Groundwater Monitoring Results Tables

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Key to Reading the Tables

The following abbreviations may appear in the data tables:

Constituents

Sp. conductance specific conductance

Laboratories

EM	Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) Laboratory
ES	QST Environmental (was Environmental Science & Engineering until June 1997)
EX	EMAX Laboratories, Inc.
GE and GP	General Engineering Laboratories, Inc.
QR	Quanterra, Inc.
TM	Thermo NUtech
WA and WS	Recra LabNet Philadelphia (was Roy F. Weston, Inc., until June 1997)

Sampling Codes

A	pump was surging excessively; aerated
B	blank sample was collected
C	well was pumping continuously
D	well was dry
E	equipment blank was collected
I	well went dry during sampling; insufficient water to collect all samples
L	well went dry before sampling began; only depth to water can be determined
N	well was not stabilized before sampling began
P	inaccessibility or mechanical failure prevented sample collection and field analysis of the water
S	no water in standpipe; for water-level events only
W	unable to sample because of stabilization or sampling equipment failure; only water-level measurements were obtained
X	well went dry during purging; samples collected after well recovered

Sampling Methods

B	sample collected using an open-bucket bailer
O	sample collected by method other than bailer or pump
P	sample collected using a bladder pump
S	sample collected using a single-speed centrifugal downhole pump
V	sample collected using a variable-speed pump

Units

mg/L	milligrams per liter
msl	mean sea level
MSL	million structures per liter
NTU	nephelometric turbidity unit

pCi/mL	picocuries per milliliter
pH	pH unit
µg/L	micrograms per liter
µS/cm	microsiemens per centimeter

Data Table Column Headings

DF	dilution factor
H	exceeded the holding time
Mod	modifier
ST	exceeded the GWPS

Other

CS	carbon steel
E	exponential notation (e.g., 1.1E-09 = 1.1×10^{-9} = 0.0000000011)
PVC	polyvinyl chloride
TOC	top of casing

Results below Detection

For radiological analyses, the analytical result field contains the result recorded on the analytical instrument and reported by the laboratory, even if it is negative. For nonradiological analyses, if the analyte is not detected, the sample-specific estimated quantitation limit (EQL) is entered into the result field and is reported with a less than [<] sign. The EQL is defined as the lowest concentration that can be achieved reliably within specified limits of precision and accuracy during routine laboratory operating conditions. The sample-specific EQL is modified for sample concentration or dilution or unusual aliquot size that affects analytical sensitivity.

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 bullet (•) in the *H* (holding time) column indicates that holding time was exceeded. Analyses performed beyond holding times may not yield valid results.

The South Carolina Department of Health and Environmental Control (SCDHEC) 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 always will exceed it.

The laboratory procedure used for the determination of specific conductance allows one day to elapse between sampling and analysis. Thus, laboratory specific conductance measurements may exceed the holding time criterion.

Data Rounding

A constituent result in the analytical results tables that is not marked in the *ST* column but appears to equal an Appendix A standard is below the standard 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 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 data modifiers (also referred to as qualifiers) can be a key component in

assessing data usability. Modifiers designed by EPD/EMS and provided to the primary laboratories are defined below. These modifiers appear in the data tables under the column *Mod*. All lettered modifiers except *E* are based on EPA's STORET codes.

Modifiers

(Blank)	Data are not qualified. Numbers should be interpreted exactly as reported.
E	The detected result is between the sample-specific EQL and the method detection limit.
I	The value in the result field is the instrument reading, not the sample quantitation limit. Always used with the result qualifier <i>U</i> .
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.
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.
U	Material analyzed for but not detected. Analytical result reported is less than the sample quantitation limit.
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	Matrix interference. Value cannot be determined. Used with <i>R</i> .

Note: These are only some of the qualifiers present in the database. All modifiers associated with the data are published in the result tables of EPD/EMS' quarterly groundwater monitoring reports, the official repository of the data.

Sampling Dates

Samples for field data are collected once each quarter, but samples for analytical data may be collected more than once each quarter. Because the results tables present the highest analytical results for each quarter, the date of collection for reported analytical results may not coincide with the date of collection for field data.

Table C-1. 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>Screen Zone</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 (IIB2)

SAMPLE DATE 01/12/98 04/01/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	235.6	222.8	ft msl
pH	4.8	4.8	pH
Sp. conductance	32	36	µS/cm
Water temperature	20.0	22.0	°C
Alkalinity as CaCO ₃	0	6	mg/L
Turbidity	0	2	NTU
Volumes purged	6.2	7.5	well vol
Sampling code			
Synchronous water level	237.28 (03/17/98)	222.9 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	8.2	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	0.81	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	150	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	15	1	V	■		GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	3,300	3				GE	810	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.6	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	18	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<4.6	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 65 (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.4E-01	1	UI			GP							pCi/L
Carbon-14	<5.0E+00	1	UI			GP							pCi/L
Cobalt-60	<1.3E+00	1	UI			GP							pCi/L
Curium-242	<-2.1E-02	1	UI			GP							pCi/L
Curium-243/244	<1.6E-01	1	UI			GP							pCi/L
Curium-245/246	<3.0E-02	1	UI			GP							pCi/L
Gross alpha	1.1E+00	1				GP	<4.4E-01	1	UI			GP	pCi/L
Iodine-129	<6.3E-01	1	UI			GP							pCi/L
Nickel-63	<1.3E+00		UI										pCi/L
Nonvolatile beta	<3.8E-01	1	UI			GP	<1.2E+00	1	UI			GP	pCi/L
Plutonium-238	<3.1E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-1.0E-02	1	UI			GP							pCi/L
Radium-226	<1.8E-01	1	UI			GP							pCi/L
Radium-228	2.0E+00	1				GP							pCi/L
Strontium-90	<1.3E+00	1	UI			GP							pCi/L
Technetium-99	<1.8E+00	1	UI			GP							pCi/L
Thorium-228	<-4.1E-02	1	UI			GP							pCi/L
Thorium-230	<1.8E-01	1	UI			GP							pCi/L
Thorium-232	<4.4E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	2.0E+00												pCi/L
Total radium	2.0E+00												pCi/L
Tritium	2.0E+01	1				GP	2.1E+01	1		■		GP	pCi/mL
Uranium-233/234	<9.9E-02	1	UI			GP							pCi/L
Uranium-235	<1.5E-01	1	UI			GP							pCi/L
Uranium-238	<-6.0E-03	1	UJI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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	01/12/98	04/13/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	171.4	172.6	ft msl
pH	7.4	8.0	pH
Sp. conductance	180	200	µS/cm
Water temperature	20.0	22.5	°C
Alkalinity as CaCO ₃	89	90	mg/L
Turbidity	1	0	NTU
Volumes purged	2.1	2.0	well vol
Sampling code			
Synchronous water level	171.77 (03/17/98)	172.4 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	46	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.7	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	7.3	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<0.69	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	170	1				GE	28	1				WA	µg/L
Selenium, total recoverable	<2.1	1	JEV			GE							µg/L
Silver, total recoverable	<1.3	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<5.4	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<5.6	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 65A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-3.1E-02	1	UI			GP							pCi/L
Carbon-14	<1.3E+00	1	UI			GP							pCi/L
Cobalt-60	<7.0E-01	1	UI			GP							pCi/L
Curium-242	<-2.0E-02	1	UI			GP							pCi/L
Curium-243/244	<-5.5E-02	1	UI			GP							pCi/L
Curium-245/246	<3.1E-02	1	UI			GP							pCi/L
Gross alpha	<6.8E-01	1	UI			GP	1.8E+00	1				TM	pCi/L
Iodine-129	<2.1E-01	1	UI			GP							pCi/L
Nickel-63	<7.0E-01		UI										pCi/L
Nonvolatile beta	1.5E+00	1				GP	6.7E+00	1	J			TM	pCi/L
Plutonium-238	<1.5E-01	1	UI			GP							pCi/L
Plutonium-239/240	<1.8E-02	1	UI			GP							pCi/L
Radium-226	<4.2E-01	1	UI			GP							pCi/L
Radium-228	3.2E+00	1				GP							pCi/L
Strontium-90	<2.0E-01	1	UI			GP							pCi/L
Technetium-99	<-3.0E+00	1	UI			GP							pCi/L
Thorium-228	<-2.0E-03	1	UI			GP							pCi/L
Thorium-230	<5.5E-02	1	UI			GP							pCi/L
Thorium-232	<-1.3E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	3.2E+00												pCi/L
Total radium	3.2E+00												pCi/L
Tritium	<-8.5E-02	1	UI			GP	<3.4E-02	1	UI			GP	pCi/mL
Uranium-233/234	<1.2E-01	1	UI			GP							pCi/L
Uranium-235	<-2.4E-02	1	UI			GP							pCi/L
Uranium-238	<1.2E-01	1	UJI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB1)

SAMPLE DATE 01/12/98 04/01/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	224.8	227.6	ft msl
pH	7.0	7.2	pH
Sp. conductance	180	18	µS/cm
Water temperature	18.0	20.0	°C
Alkalinity as CaCO ₃	70	65	mg/L
Turbidity	2	1	NTU
Volumes purged	2.4	3.0	well vol
Sampling code			
Synchronous water level	227.25 (03/17/98)	227.0 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	15	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	4.2	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<2.1	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	240	1				GE	20	1	JE			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.5	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<13	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<4.0	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 65B (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-2.3E-02	1	UI			GP							pCi/L
Carbon-14	<4.7E+00	1	UI			GP							pCi/L
Cobalt-60	<4.6E-02	1	UI			GP							pCi/L
Curium-242	<1.8E-02	1	UI			GP							pCi/L
Curium-243/244	<2.1E-01	1	UI			GP							pCi/L
Curium-245/246	<4.2E-02	1	UI			GP							pCi/L
Gross alpha	<3.3E-01	1	UI			GP	<-2.4E-02	1	UI			GP	pCi/L
Iodine-129	<-5.6E-01	1	UI			GP							pCi/L
Nickel-63	<0.0E+00	1	UI			GP							pCi/L
Nonvolatile beta	<6.8E-01	1	UI			GP	<4.7E-01	1	UI			GP	pCi/L
Plutonium-238	<9.8E-02	1	UI			GP							pCi/L
Plutonium-239/240	<9.0E-03	1	UI			GP							pCi/L
Radium-226	<1.2E-01	1	UI			GP							pCi/L
Radium-228	1.3E+00	1				GP							pCi/L
Strontium-90	<9.1E-01	1	UI			GP							pCi/L
Technetium-99	<-6.6E-01	1	UI			GP							pCi/L
Thorium-228	<-4.9E-02	1	UI			GP							pCi/L
Thorium-230	3.8E-01	1				GP							pCi/L
Thorium-232	<-1.5E-02	1	UI			GP							pCi/L
Total alpha emitters	3.8E-01												pCi/L
Total beta emitters	1.3E+00												pCi/L
Total radium	1.3E+00												pCi/L
Tritium	<4.1E-01	1	UI			GP	<-2.4E-02	1	UI			GP	pCi/mL
Uranium-233/234	<6.0E-02	1	UI			GP							pCi/L
Uranium-235	<-9.0E-03	1	UI			GP							pCi/L
Uranium-238	<6.0E-02	1	UJI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 65C

<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>Screen Zone</u>
N72439.6 E58447.1	33.281351 °N 81.653610 °W	218.6-207.8 ft msl	273.6 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE	01/12/98	04/01/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	233.3	239.9	ft msl
pH	4.0	5.0	pH
Sp. conductance	52	60	µS/cm
Water temperature	20.0	21.0	°C
Alkalinity as CaCO ₃	0	2	mg/L
Turbidity	1	1	NTU
Volumes purged	4.2	2.7	well vol
Sampling code			
Synchronous water level	238.22 (03/17/98)	237.5 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	8.9	1				GE							µg/L
Cadmium, total recoverable	0.30	1	JE			GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	8.4	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<3.2	1	JEV			GE							µg/L
Mercury, total recoverable	0.23	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	4,200	3				GE	3,600	2				GE	µg/L
Selenium, total recoverable	<1.5	1	JEV			GE							µg/L
Silver, total recoverable	<1.1	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<7.4	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<2.8	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 65C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-5.2E-02	1	UI			GP							pCi/L
Carbon-14	<-5.8E-01	1	UI			GP							pCi/L
Cobalt-60	<-8.2E-01	1	UI			GP							pCi/L
Curium-242	<-4.0E-03	1	UI			GP							pCi/L
Curium-243/244	<-1.5E-01	1	UI			GP							pCi/L
Curium-245/246	<-5.0E-02	1	UI			GP							pCi/L
Gross alpha	1.8E+00	1				GP	1.7E+00	1	J			GP	pCi/L
Iodine-129	<-1.2E-01	1	UI			GP							pCi/L
Nickel-63	<-8.2E-01		UI										pCi/L
Nonvolatile beta	1.4E+00	1				GP	1.8E+00	1				GP	pCi/L
Plutonium-238	<-6.0E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-2.1E-02	1	UI			GP							pCi/L
Radium-226	1.2E+00	1				GP							pCi/L
Radium-228	3.1E+00	1				GP							pCi/L
Strontium-90	<-5.2E-01	1	UI			GP							pCi/L
Technetium-99	<-2.8E+00	1	UI			GP							pCi/L
Thorium-228	<-1.2E-01	1	UI			GP							pCi/L
Thorium-230	1.1E+00	1	R4			GP							pCi/L
Thorium-232	<-1.3E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	3.1E+00												pCi/L
Total radium	4.3E+00												pCi/L
Tritium	2.9E+01	1		■		GP	1.2E+02	1		■		GP	pCi/mL
Uranium-233/234	<-1.7E-02	1	UI			GP							pCi/L
Uranium-235	<-2.4E-02	1	UI			GP							pCi/L
Uranium-238	<-4.4E-02	1	UJI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 66

<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>Screen Zone</u>
N72429.2 E56928.3	33.278850 °N 81.657589 °W	228.1-198.1 ft msl	280.2 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE	01/19/98	04/21/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	210.5	213.3	ft msl
pH	5.0	4.9	pH
Sp. conductance	28	30	µS/cm
Water temperature	17.9	21.3	°C
Alkalinity as CaCO ₃	1	1	mg/L
Turbidity	3	3	NTU
Volumes purged	6.0	3.9	well vol
Sampling code			
Synchronous water level	227.6 (03/19/98)	223.1 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	4.5	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	120	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	8.2	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	4,300	3				GE	1,800	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	29	1	V			GE							µg/L
<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.95	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 66 (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.3E-01	1	UI			GP							pCi/L
Carbon-14	<-3.5E-01	1	UI			GP							pCi/L
Cobalt-60	<4.0E-01	1	UI			GP							pCi/L
Curium-242	<-7.0E-03	1	UI			GP							pCi/L
Curium-243/244	<3.4E-02	1	UI			GP							pCi/L
Curium-245/246	<0.0E+00	1	UI			GP							pCi/L
Gross alpha	1.1E+00	1				GP	1.1E+00	1	J2			GP	pCi/L
Iodine-129	<2.7E-02	1	UI			GP							pCi/L
Nickel-63	<4.0E-01		UI										pCi/L
Nonvolatile beta	8.5E-01	1				GP	<9.7E-01	1	UI			GP	pCi/L
Plutonium-238	<4.0E-01	1	UI			GP							pCi/L
Plutonium-239/240	<2.9E-02	1	UI			GP							pCi/L
Radium-226	6.9E-01	1				GP							pCi/L
Radium-228	2.4E+00	1				GP							pCi/L
Strontium-90	<-2.7E-01	1	UI			GP							pCi/L
Technetium-99	<-3.4E+00	1	UI			GP							pCi/L
Thorium-228	<2.4E-01	1	UI			GP							pCi/L
Thorium-230	<5.2E-02	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	2.4E+00												pCi/L
Total radium	3.1E+00												pCi/L
Tritium	1.3E+01	1				GP	1.2E+01	1				GP	pCi/mL
Uranium-233/234	<1.2E-01	1	UI			GP							pCi/L
Uranium-235	<1.4E-01	1	UI			GP							pCi/L
Uranium-238	<8.2E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71505.0 E58424.3	33.279247 °N 81.651855 °W	230.7-200.7 ft msl	237.8 ft msl	4" PVC	V	Water Table (IIB2)

<u>SAMPLE DATE</u>	01/05/98	04/06/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	221.7	210.9	ft msl
pH	4.0	3.6	pH
Sp. conductance	100	120	µS/cm
Water temperature	19.0	19.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0	0	NTU
Volumes purged	2.8	6.0	well vol
Sampling code			
Synchronous water level	226.4 (03/18/98)	210.9 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	28	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	1.9	1	JE			GE							µg/L
Copper, total recoverable	11	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	15	1				GE							µg/L
Mercury, total recoverable	0.28	1				GE	2.4	1				GE	µg/L
Nickel, total recoverable	2.5	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	8,700	5	JV3			GE	9,600	5				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	19	1	V			GE							µg/L
<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>

Organic Constituents

Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 67 (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<6.0E-02	1	UI			GP							pCi/L
Carbon-14	4.9E+01	1				GP							pCi/L
Cobalt-60	8.6E+00	1				GP							pCi/L
Curium-242	<4.5E-02	1	UI			GP							pCi/L
Curium-243/244	<1.2E-01	1	UI			GP							pCi/L
Curium-245/246	<1.3E-01	1	UI			GP							pCi/L
Gross alpha	8.9E+01	1		■		GP	1.8E+01	1		■		GP	pCi/L
Iodine-129	1.4E+00	1	R4			GP							pCi/L
Nickel-63	8.6E+00												pCi/L
Nonvolatile beta	8.1E+02	1		■		GP	8.3E+02	1		■		GP	pCi/L
Plutonium-238	<-2.4E-02	1	UI			GP							pCi/L
Plutonium-239/240	<3.7E-02	1	UI			GP							pCi/L
Radium-226	9.9E+00	1		■		GP							pCi/L
Radium-228	3.4E+01	1		■		GP							pCi/L
Strontium-90	4.6E+02	1		■		GP							pCi/L
Technetium-99	<2.1E+01	1	UI			GP							pCi/L
Thorium-228	<1.0E-01	1	UI			GP							pCi/L
Thorium-230	<9.9E-02	1	UI			GP							pCi/L
Thorium-232	<-3.1E-02	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	5.6E+02												pCi/L
Total radium	4.4E+01												pCi/L
Tritium	1.7E+02	1		■		GP	2.5E+02	1		■		GP	pCi/mL
Uranium-233/234	<9.0E-01	1	UI			GP							pCi/L
Uranium-235	<-9.0E-03	1	UI			GP							pCi/L
Uranium-238	<6.0E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE	01/05/98	04/01/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.3	223.6	ft msl
pH	4.0	4.2	pH
Sp. conductance	160	120	µS/cm
Water temperature	18.0	19.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	7.6	6.1	well vol
Sampling code			
Synchronous water level	224.3 (03/18/98)	223.0 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	90	1				GE							µg/L
Cadmium, total recoverable	0.66	1	JE			GE							µg/L
Chromium, total recoverable	2.0	1	JE			GE							µg/L
Cobalt, total recoverable	8.2	1		■		GE							µg/L
Copper, total recoverable	51	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	63	1		■		GE	1.2	1				GE	µg/L
Mercury, total recoverable	1.6	1				GE							µg/L
Nickel, total recoverable	13	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	13,000	20	V	■		GE	9,800	5				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	55	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<0.42	1	JEV			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 68 (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.8E-02	1	UI			GP							pCi/L
Carbon-14	1.0E+02	1		■		GP							pCi/L
Cobalt-60	3.2E+01	1				GP							pCi/L
Curium-242	<2.2E-02	1	UI			GP							pCi/L
Curium-243/244	<-1.3E-02	1	UI			GP							pCi/L
Curium-245/246	<-1.0E-02	1	UI			GP							pCi/L
Gross alpha	3.4E+01	1		■		GP	2.6E+01	1	J	■		GP	pCi/L
Iodine-129	4.9E+00	1	J1			GP							pCi/L
Nickel-63	3.2E+01	1											pCi/L
Nonvolatile beta	2.2E+03	1		■		GP	2.3E+03	1		■		GP	pCi/L
Plutonium-238	<2.6E-01	1	UI			GP							pCi/L
Plutonium-239/240	2.4E-01	1				GP							pCi/L
Radium-226	1.1E+01	1		■		GP							pCi/L
Radium-228	6.5E+01	1		■		GP							pCi/L
Strontium-90	1.2E+03	1		■		GP							pCi/L
Technetium-99	<2.0E+01	1	UI			GP							pCi/L
Thorium-228	<-6.0E-02	1	UI			GP							pCi/L
Thorium-230	<1.2E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	2.7E+00												pCi/L
Total beta emitters	1.5E+03			■									pCi/L
Total radium	7.6E+01												pCi/L
Tritium	5.0E+02	1		■		GP	2.0E+02	1		■		GP	pCi/mL
Uranium-233/234	2.4E+00	1				GP							pCi/L
Uranium-235	<2.4E-01	1	UI			GP							pCi/L
Uranium-238	<9.7E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 68A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 01/22/98 04/02/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	172.2	173.1	ft msl
pH	6.5	7.4	pH
Sp. conductance	120	110	µS/cm
Water temperature	18.4	21.3	°C
Alkalinity as CaCO ₃	42	51	mg/L
Turbidity	1	0	NTU
Volumes purged	2.4	2.3	well vol
Sampling code			
Synchronous water level	172.9 (03/18/98)	172.9 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	27	1				WA							µg/L
Cadmium, total recoverable	<4.7	1				WA							µg/L
Chromium, total recoverable	1.5	1	JE			GE							µg/L
Cobalt, total recoverable	<4.5	1				WA							µg/L
Copper, total recoverable	<2.4	1	V			WA							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	0.74	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	60	1	V			GE	90	1	J			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.96	1	JE			WA							µg/L
Zinc, total recoverable	7.9	1	JE			WA							µg/L
Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	6.0	1	JE			GE							µg/L
Dichloromethane	<0.27	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 68A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<7.0E-03	1	UI			GP							pCi/L
Carbon-14	1.0E+01	1				GP							pCi/L
Cobalt-60	<4.0E-01	1	UI			GP							pCi/L
Curium-242	<1.3E-02	1	UI			GP							pCi/L
Curium-243/244	<1.0E-02	1	UI			TM							pCi/L
Curium-245/246	<4.0E-03	1	UI			GP							pCi/L
Gross alpha	9.0E-01	1				TM	<5.8E-01	1	UI			GP	pCi/L
Iodine-129	<4.4E-02	1	UI			GP							pCi/L
Nickel-63	<4.0E-01		UI										pCi/L
Nonvolatile beta	3.2E+00	1	J			GP	3.2E+00	1				GP	pCi/L
Plutonium-238	<1.1E-01	1	UI			GP							pCi/L
Plutonium-239/240	<2.0E-03	1	UI			GP							pCi/L
Radium-226	<3.1E-01	1	UI			GP							pCi/L
Radium-228	3.0E+00	1				GP							pCi/L
Strontium-90	<1.0E-01	1	UI			TM							pCi/L
Technetium-99	<9.7E-01	1	UI			TM							pCi/L
Thorium-228	<7.8E-05	1	UI			GP							pCi/L
Thorium-230	1.9E+00	1	V			TM							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	1.9E+00												pCi/L
Total beta emitters	1.3E+01												pCi/L
Total radium	3.0E+00												pCi/L
Tritium	1.0E+00	1				TM	6.8E-01	1				GP	pCi/mL
Uranium-233/234	<0.0E+00	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<1.5E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71525.5 E56882.1	33.276776 °N 81.655956 °W	134.5-123.5 ft msl	250 ft msl	4" PVC	S	McBean (IIB1)

SAMPLE DATE 01/13/98 04/02/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	217.2	219.0	ft msl
pH	5.5	7.9	pH
Sp. conductance	170	210	µS/cm
Water temperature	19.1	21.1	°C
Alkalinity as CaCO ₃	110	92	mg/L
Turbidity	8	7	NTU
Volumes purged	2.3	2.2	well vol
Sampling code			
Synchronous water level	219.1 (03/18/98)	218.3 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	16	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	3.9	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.18	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	490	1				GE	250	1	J			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.2	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	1.1	1	JE			GE							µg/L
Zinc, total recoverable	14	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.1	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 68B (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	6.3E-01	1	UIV			GP							pCi/L
Carbon-14	<4.3E+00	1	UI			GP							pCi/L
Cobalt-60	<-8.8E-01	1	UI			GP							pCi/L
Curium-242	<5.5E-02	1	UI			GP							pCi/L
Curium-243/244	<2.0E-01	1	UI			GP							pCi/L
Curium-245/246	<1.5E-01	1	UI			GP							pCi/L
Gross alpha	<9.4E-01	1	UI			GP	<7.8E-01	1	UI			GP	pCi/L
Iodine-129	<2.7E-01	1	UI			GP							pCi/L
Nickel-63	<-8.8E-01		UI										pCi/L
Nonvolatile beta	2.3E+00	1	J			GP	3.3E+00	1				GP	pCi/L
Plutonium-238	<2.2E-01	1	UJI			GP							pCi/L
Plutonium-239/240	<-2.8E-02	1	UI			GP							pCi/L
Radium-226	<3.8E-01	1	UI			GP							pCi/L
Radium-228	2.1E+00	1				GP							pCi/L
Strontium-90	<7.5E-01	1	UJI			GP							pCi/L
Technetium-99	<-7.7E+00	1	UI			GP							pCi/L
Thorium-228	<-7.0E-03	1	UI			GP							pCi/L
Thorium-230	<2.6E-01	1	UI			GP							pCi/L
Thorium-232	<7.3E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	2.1E+00												pCi/L
Total radium	2.1E+00												pCi/L
Tritium	1.5E+01	1				GP	1.3E+01	1				GP	pCi/mL
Uranium-233/234	<2.4E-01	1	UI			GP							pCi/L
Uranium-235	<1.1E-01	1	UI			GP							pCi/L
Uranium-238	<2.9E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 68C

<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>Screen Zone</u>
N71524.1 E56872.7	33.276758 °N 81.655978 °W	179.5-168.4 ft msl	250.1 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE	01/28/98	04/28/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	218.9	220.0	ft msl
pH	5.8	5.6	pH
Sp. conductance	100	140	µS/cm
Water temperature	17.0	17.0	°C
Alkalinity as CaCO ₃	7	10	mg/L
Turbidity	1	1	NTU
Volumes purged	0.030	0.030	well vol
Sampling code	XN	XN	
Synchronous water level	220.0 (03/18/98)	219.1 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	23	1				GE							µg/L
Cadmium, total recoverable	1.2	1	JE			GE							µg/L
Chromium, total recoverable	1.2	1	JE			GE							µg/L
Cobalt, total recoverable	0.86	1	JE			GE							µg/L
Copper, total recoverable	76	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	5.6	1				GE							µg/L
Mercury, total recoverable	0.13	1	E			GE	0.65	1				GE	µg/L
Nickel, total recoverable	7.7	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	10,000	5	V	■		GE	12,000	5		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	330	1	V			GE							µg/L
<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<2.4	1	JV1		●	GE							µg/L
Tetrachloroethylene	1.1	1	J1		●	GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 68C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<6.3E-02	1	UI			GP							pCi/L
Carbon-14	<1.9E+01	1	UI			GP							pCi/L
Cobalt-60	<3.0E-01	1	UI			GP							pCi/L
Curium-242	<7.7E-02	1	UI			GP							pCi/L
Curium-243/244	<2.3E-01	1	UI			GP							pCi/L
Curium-245/246	<5.4E-02	1	UI			GP							pCi/L
Gross alpha	<7.2E-01	1	UI			GP	1.8E+00	1	UIV			GP	pCi/L
Iodine-129	3.2E+00	1				GP							pCi/L
Nickel-63	<3.0E-01		UI										pCi/L
Nonvolatile beta	7.4E+00	1				GP	8.2E+00	1	UIV			GP	pCi/L
Plutonium-238	<7.4E-02	1	UI			GP							pCi/L
Plutonium-239/240	<4.5E-02	1	UI			GP							pCi/L
Radium-226	6.2E-01	1	UIV			GP							pCi/L
Radium-228	1.3E+00	1	UIV			GP							pCi/L
Strontium-90	8.1E-01	1				GP							pCi/L
Technetium-99	2.4E+01	1				GP							pCi/L
Thorium-228	<7.0E-02	1	UI			GP							pCi/L
Thorium-230	<3.9E-02	1	UI			GP							pCi/L
Thorium-232	<1.5E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	2.8E+01												pCi/L
Tritium	1.5E+03	1		■		GP	1.7E+03	1		■		GP	pCi/mL
Uranium-233/234	<5.5E-02	1	UI			GP							pCi/L
Uranium-235	<3.3E-02	1	UI			GP							pCi/L
Uranium-238	<8.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 69

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71546.9 E56475.1	33.276160 °N 81.657069 °W	229.0-199.0 ft msl	236 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/05/98	04/01/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	219.6	220.5	ft msl
pH	4.0	4.4	pH
Sp. conductance	56	52	µS/cm
Water temperature	18.0	18.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0	0	NTU
Volumes purged	2.7	3.0	well vol
Sampling code			
Synchronous water level	221.02 (03/17/98)	219.8 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	15	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	1.9	1	JE			GE							µg/L
Copper, total recoverable	22	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	11	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	3.2	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	2,600	5	V			GE	2,600	2				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	18	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 69 (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<9.3E-02	1	UI			GP							pCi/L
Carbon-14	<1.5E+01	1	UI			GP							pCi/L
Cobalt-60	1.2E+01	1				GP							pCi/L
Curium-242	<4.1E-02	1	UI			GP							pCi/L
Curium-243/244	<7.8E-02	1	UI			GP							pCi/L
Curium-245/246	<9.0E-02	1	UI			GP							pCi/L
Gross alpha	9.6E+00	1				GP	8.6E+00	1	J			GP	pCi/L
Iodine-129	3.1E+00	1	J1			GP							pCi/L
Nickel-63	1.2E+01												pCi/L
Nonvolatile beta	5.5E+02	1		■		GP	5.1E+02	1		■		GP	pCi/L
Plutonium-238	<9.9E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-1.1E-01	1	UI			GP							pCi/L
Radium-226	2.3E+00	1				GP							pCi/L
Radium-228	1.5E+01	1		■		GP							pCi/L
Strontium-90	2.9E+02	1		■		GP							pCi/L
Technetium-99	<1.5E+00	1	UI			GP							pCi/L
Thorium-228	<2.8E-01	1	UI			GP							pCi/L
Thorium-230	<5.2E-02	1	UI			GP							pCi/L
Thorium-232	<-1.0E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	3.3E+02			■									pCi/L
Total radium	1.7E+01												pCi/L
Tritium	3.2E+01	1		■		GP	2.5E+01	1		■		GP	pCi/mL
Uranium-233/234	<5.9E-02	1	UI			GP							pCi/L
Uranium-235	<9.3E-02	1	UI			GP							pCi/L
Uranium-238	<1.0E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71549.4 E56465.1	33.276149 °N 81.657100 °W	93.1-83.1 ft msl	236.6 ft msl	4" PVC	S	M. Congaree (IIA)

SAMPLE DATE	01/12/98	04/20/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	172.2	173.6	ft msl
pH	6.5	7.1	pH
Sp. conductance	110	140	µS/cm
Water temperature	18.8	19.8	°C
Alkalinity as CaCO ₃	47	59	mg/L
Turbidity	1	1	NTU
Volumes purged	2.9	2.7	well vol
Sampling code			
Synchronous water level	173.24 (03/17/98)	173.3 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	25	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.2	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	30	1	JE			GE	17	1	JE			WA	µg/L
Selenium, total recoverable	<2.2	1	JEV			GE							µg/L
Silver, total recoverable	<1.5	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<5.2	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<2.5	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 69A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<5.2E-02	1	UI			GP							pCi/L
Carbon-14	<3.0E+00	1	UI			GP							pCi/L
Cobalt-60	<8.5E-02	1	UI			GP							pCi/L
Curium-242	<-1.2E-01	1	UI			GP							pCi/L
Curium-243/244	<1.2E-01	1	UI			GP							pCi/L
Curium-245/246	<-1.1E-02	1	UI			GP							pCi/L
Gross alpha	8.1E-01	1				GP	4.6E+00	1				TM	pCi/L
Iodine-129	<5.0E-01	1	UI			GP							pCi/L
Nickel-63	<8.5E-02		UI										pCi/L
Nonvolatile beta	<1.1E+00	1	UI			GP	4.4E+00	1				TM	pCi/L
Plutonium-238	<1.0E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-1.5E-02	1	UI			GP							pCi/L
Radium-226	<3.3E-01	1	UI			GP							pCi/L
Radium-228	2.9E+00	1				GP							pCi/L
Strontium-90	<6.7E-01	1	UI			GP							pCi/L
Technetium-99	<-4.8E+00	1	UI			GP							pCi/L
Thorium-228	<3.4E-02	1	UI			GP							pCi/L
Thorium-230	3.5E-01	1				GP							pCi/L
Thorium-232	<2.4E-02	1	UI			GP							pCi/L
Total alpha emitters	3.5E-01												pCi/L
Total beta emitters	2.9E+00												pCi/L
Total radium	2.9E+00												pCi/L
Tritium	<-6.7E-02	1	UI			GP	<-7.2E-03	1		UI		GP	pCi/mL
Uranium-233/234	<3.5E-02	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<-2.4E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 70

<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>Screen Zone</u>
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 (IIB2)

<u>SAMPLE DATE</u>	01/26/98	04/07/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	214.5	227.9	ft msl
pH	4.9	5.2	pH
Sp. conductance	81	64	µS/cm
Water temperature	13.2	14.2	°C
Alkalinity as CaCO ₃	14	1	mg/L
Turbidity	3	2	NTU
Volumes purged	15	3.3	well vol
Sampling code			
Synchronous water level	234.8 (03/17/98)	225.2 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	120	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	17	1				GE							µg/L
Cyanide	9.7	1	JE			GE							µg/L
Lead, total recoverable	<3.7	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	1,200	1	V			GE	230	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<5.7	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.8	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 70 (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.9E-01	1	UI			GP							pCi/L
Carbon-14	<2.4E+00	1	UI			GP							pCi/L
Cobalt-60	<4.5E+00	1	UI			GP							pCi/L
Curium-242	<-2.3E-01	1	UI			GP							pCi/L
Curium-243/244	<-1.2E-01	1	UI			GP							pCi/L
Curium-245/246	<9.4E-02	1	UI			GP							pCi/L
Gross alpha	1.1E+00	1	UIV			GP	7.4E-01	1	J2			GP	pCi/L
Iodine-129	<3.0E-02	1	UI			GP							pCi/L
Nickel-63	<4.5E+00		UI										pCi/L
Nonvolatile beta	2.3E+01	1	J			GP	1.3E+01	1				GP	pCi/L
Plutonium-238	<4.6E-01	1	UI			GP							pCi/L
Plutonium-239/240	<0.0E+00	1	UI			GP							pCi/L
Radium-226	2.9E-01	1				GP							pCi/L
Radium-228	2.9E+00	1	J			GP							pCi/L
Strontium-90	1.1E+01	1			■	GP							pCi/L
Technetium-99	<6.0E+00	1	UI			GP							pCi/L
Thorium-228	<-1.6E-01	1	UI			GP							pCi/L
Thorium-230	<3.6E-02	1	UI			GP							pCi/L
Thorium-232	<-4.6E-02	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	1.4E+01												pCi/L
Total radium	3.2E+00												pCi/L
Tritium	2.0E+01	1				GP	2.1E+01	1			■	GP	pCi/mL
Uranium-233/234	<2.2E-01	1	UI			GP							pCi/L
Uranium-235	<-4.0E-02	1	UI			GP							pCi/L
Uranium-238	<8.7E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 70C

<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>Screen Zone</u>
N72597.3 E55757.1	33.277311 °N 81.660999 °W	174.9-164.9 ft msl	243.1 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE	01/28/98	05/04/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	225.1	226.4	ft msl
pH	10.0	6.4	pH
Sp. conductance	440	360	µS/cm
Water temperature	17.0	19.3	°C
Alkalinity as CaCO ₃	50	16	mg/L
Turbidity	1	0	NTU
Volumes purged	0.025	2.3	well vol
Sampling code	XN		
Synchronous water level	266.58 (03/17/98)	224.0 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	260	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.4	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	2.3	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	0.27	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	27,000	20	V	■		GE	44,000	25		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<8.7	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<17	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 70C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.8E-01	1	UI			GP							pCi/L
Carbon-14	2.1E+02	1		■		GP							pCi/L
Cobalt-60	<8.8E-01	1	UI			GP							pCi/L
Curium-242	<6.3E-02	1	UI			GP							pCi/L
Curium-243/244	<6.1E-02	1	UI			GP							pCi/L
Curium-245/246	<6.0E-02	1	UI			GP							pCi/L
Gross alpha	5.9E+00	1				GP	4.0E+00	1				GP	pCi/L
Iodine-129	<9.3E-01	1	UI			GP							pCi/L
Nickel-63	<8.8E-01		UI										pCi/L
Nonvolatile beta	9.4E+01	1		■		GP	1.0E+02	1		■		GP	pCi/L
Plutonium-238	<9.3E-02	1	UI			GP							pCi/L
Plutonium-239/240	<2.4E-02	1	UI			GP							pCi/L
Radium-226	1.3E+00	1	UIV			GP							pCi/L
Radium-228	1.9E+00	1	UIV			GP							pCi/L
Strontium-90	<8.1E-02	1	UI			GP							pCi/L
Technetium-99	2.0E+02	1		■		GP							pCi/L
Thorium-228	<8.6E-02	1	UI			GP							pCi/L
Thorium-230	<1.4E-01	1	UI			GP							pCi/L
Thorium-232	<1.5E-02	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	4.1E+02			■									pCi/L
Tritium	3.4E+03	1		■		GP	4.8E+03	1		■		GP	pCi/mL
Uranium-233/234	<2.8E-02	1	UI			GP							pCi/L
Uranium-235	<8.9E-02	1	UI			GP							pCi/L
Uranium-238	<1.3E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE	01/12/98	04/06/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	216.2	227.2	ft msl
pH	4.7	4.7	pH
Sp. conductance	29	24	µS/cm
Water temperature	16.3	18.7	°C
Alkalinity as CaCO ₃	1	1	mg/L
Turbidity	2	3	NTU
Volumes purged	9.0	4.1	well vol
Sampling code			
Synchronous water level	229.0 (03/18/98)	224.8 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	2.8	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	51	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	8.1	1	V			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	0.15	1	JE			GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	10	1	JE			GE	20	1	JE			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.2	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<13	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<2.8	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 71 (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.9E-01	1	UI			GP							pCi/L
Carbon-14	<1.3E+00	1	UI			GP							pCi/L
Cobalt-60	<6.7E-01	1	UI			GP							pCi/L
Curium-242	<2.8E-02	1	UI			GP							pCi/L
Curium-243/244	<5.8E-02	1	UI			GP							pCi/L
Curium-245/246	<1.6E-02	1	UI			GP							pCi/L
Gross alpha	<2.5E-01	1	UI			GP	<4.3E-01	1	UI			GP	pCi/L
Iodine-129	<2.2E-01	1	UI			GP							pCi/L
Nickel-63	<6.7E-01		UI										pCi/L
Nonvolatile beta	<4.5E-01	1	UI			GP	<1.3E+00	1	UI			GP	pCi/L
Plutonium-238	<2.1E-01	1	UI			GP							pCi/L
Plutonium-239/240	<3.2E-02	1	UI			GP							pCi/L
Radium-226	<1.2E-01	1	UI			GP							pCi/L
Radium-228	3.2E+00	1				GP							pCi/L
Strontium-90	<4.0E-01	1	UI			GP							pCi/L
Technetium-99	<1.5E+00	1	UI			GP							pCi/L
Thorium-228	<1.8E-02	1	UI			GP							pCi/L
Thorium-230	<5.3E-02	1	UI			GP							pCi/L
Thorium-232	<4.2E-02	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	3.2E+00												pCi/L
Total radium	3.2E+00												pCi/L
Tritium	1.7E+01	1				GP	2.3E+01	1				GP	pCi/mL
Uranium-233/234	<9.0E-03	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<9.0E-03	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 71C

<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>Screen Zone</u>
N72866.6 E55281.5	33.277131 °N 81.662775 °W	181.9-171.9 ft msl	241.6 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/26/98	04/21/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	224.8	226.6	ft msl
pH	6.4	5.8	pH
Sp. conductance	400	240	µS/cm
Water temperature	18.0	18.4	°C
Alkalinity as CaCO ₃	14	23	mg/L
Turbidity	4	.2	NTU
Volumes purged	0.029	0.64	well vol
Sampling code	XN	XN	
Synchronous water level	226.7 (03/18/98)	223.5 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	47	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.5	1	JE			GE							µg/L
Cobalt, total recoverable	2.9	1	JE			GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.3	1	JEV			GE							µg/L
Mercury, total recoverable	0.76	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	31,000	40	V	■		GE	30,000	25	V	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.8	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<11	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.1	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 71C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.7E-01	1	UI			GP							pCi/L
Carbon-14	2.4E+02	1		■		GP							pCi/L
Cobalt-60	<-1.3E-01	1	UI			GP							pCi/L
Curium-242	<-1.9E-02	1	UI			GP							pCi/L
Curium-243/244	<-9.4E-02	1	UI			GP							pCi/L
Curium-245/246	<0.0E+00	1	UI			GP							pCi/L
Gross alpha	5.3E+00	1				GP	8.0E+00	1	UIV			GP	pCi/L
Iodine-129	5.9E+00	1	J			GP							pCi/L
Nickel-63	<-1.3E-01		UI										pCi/L
Nonvolatile beta	7.5E+01	1		■		GP	3.3E+01	1	UIV			GP	pCi/L
Plutonium-238	<1.3E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-7.8E-02	1	UI			GP							pCi/L
Radium-226	1.0E+00	1				GP							pCi/L
Radium-228	1.9E+00	1				GP							pCi/L
Strontium-90	<8.9E-01	1	UJI			GP							pCi/L
Technetium-99	1.4E+02	1		■		GP							pCi/L
Thorium-228	<2.3E-01	1	UI			GP							pCi/L
Thorium-230	<2.8E-01	1	UI			GP							pCi/L
Thorium-232	<7.0E-02	1	UI			GP							pCi/L
Total alpha emitters	2.4E-01												pCi/L
Total beta emitters	3.9E+02			■									pCi/L
Total radium	2.9E+00												pCi/L
Tritium	3.5E+03	1		■		GP	3.3E+03	1	J	■		GP	pCi/mL
Uranium-233/234	2.4E-01	1				GP							pCi/L
Uranium-235	<4.9E-02	1	UI			GP							pCi/L
Uranium-238	<4.8E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 83A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71648.6 E58606.1	33.279861 °N 81.651655 °W	76.0-65.2 ft msl	237.3 ft msl	4" PVC	S	M. Congaree (IIA)

SAMPLE DATE 01/12/98 04/01/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	153.5	174.5	ft msl
pH	6.2	7.4	pH
Sp. conductance	140	150	µS/cm
Water temperature	19.0	20.3	°C
Alkalinity as CaCO ₃	80	51	mg/L
Turbidity	0	0	NTU
Volumes purged	3.1	2.1	well vol
Sampling code			
Synchronous water level	173.5 (03/18/98)	174.5 (06/18/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	31	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.3	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	3.2	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	80	1				GE	30	1	JE			GE	µg/L
Selenium, total recoverable	<3.3	1	JEV			GE							µg/L
Silver, total recoverable	<1.3	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<2.8	1	JEV			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<2.9	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 83A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.4E-01	1	UI			GP							pCi/L
Carbon-14	<2.7E+00	1	UI			GP							pCi/L
Cobalt-60	<-1.5E+00	1	UI			GP							pCi/L
Curium-242	<3.4E-01	1	UI			GP							pCi/L
Curium-243/244	<-1.4E-01	1	UI			GP							pCi/L
Curium-245/246	<0.0E+00	1	UI			GP							pCi/L
Gross alpha	<6.9E-01	1	UI			GP	9.5E-01	1	J			GP	pCi/L
Iodine-129	<2.7E-01	1	UI			GP							pCi/L
Nickel-63	<-1.5E+00		UI										pCi/L
Nonvolatile beta	<4.7E-01	1	UI			GP	1.6E+00	1				GP	pCi/L
Plutonium-238	<-7.0E-03	1	UI			GP							pCi/L
Plutonium-239/240	<3.5E-02	1	UI			GP							pCi/L
Radium-226	6.8E-01	1				GP							pCi/L
Radium-228	3.1E+00	1				GP							pCi/L
Strontium-90	<1.4E-01	1	UI			GP							pCi/L
Technetium-99	<4.2E+00	1	UI			GP							pCi/L
Thorium-228	<-2.1E-02	1	UI			GP							pCi/L
Thorium-230	2.3E-01	1				GP							pCi/L
Thorium-232	<-5.0E-03	1	UI			GP							pCi/L
Total alpha emitters	2.3E-01												pCi/L
Total beta emitters	3.1E+00												pCi/L
Total radium	3.7E+00												pCi/L
Tritium	<-2.6E-01	1	UI			GP	<4.9E-02	1	UI			GP	pCi/mL
Uranium-233/234	<5.7E-02	1	UI			GP							pCi/L
Uranium-235	<-6.3E-02	1	UI			GP							pCi/L
Uranium-238	<-1.4E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71639.6 E58594.9	33.279823 °N 81.651667 °W	132.1-121.2 ft msl	237 ft msl	4" PVC	S	McBean (IIB1)

SAMPLE DATE	01/29/98	04/01/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	224.3	225.8	ft msl
pH	5.8	5.9	pH
Sp. conductance	80	80	µS/cm
Water temperature	19.0	19.9	°C
Alkalinity as CaCO ₃	66	30	mg/L
Turbidity	1	1	NTU
Volumes purged	2.4	2.3	well vol
Sampling code			
Synchronous water level	225.7 (03/18/98)	225.1 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	36	1				WA							µg/L
Cadmium, total recoverable	1.1	1	JE			WA							µg/L
Chromium, total recoverable	3.9	1	JE			GE							µg/L
Cobalt, total recoverable	<4.5	1				WA							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	0.54	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	90	1	V			GE	40	1	JE			GE	µg/L
Selenium, total recoverable	1.7	1	JE			GE							µg/L
Silver, total recoverable	<2.0	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.59	1	JE			GE							µg/L
Zinc, total recoverable	6.1	1	JE			WA							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<3.5	1	V			WA							µg/L
Dichloromethane	<1.3	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 83B (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	1.7E+00	1	V			GP							pCi/L
Carbon-14	<0.0E+00	1	UI			GP							pCi/L
Cobalt-60	<-1.5E-01	1	UI			GP							pCi/L
Curium-242	<-1.9E-02	1	UI			GP							pCi/L
Curium-243/244	8.0E-01	1	V			GP							pCi/L
Curium-245/246	1.8E-01	1				GP							pCi/L
Gross alpha	<-2.3E-02	1	UI			GP	<-2.5E-02	1	UI			GP	pCi/L
Iodine-129	<-5.0E-01	1	UI			GP							pCi/L
Nickel-63	<-1.5E-01		UI										pCi/L
Nonvolatile beta	1.5E+01	1	J			TM	<1.0E+00	1	UI			GP	pCi/L
Plutonium-238	<9.2E-02	1	UI			GP							pCi/L
Plutonium-239/240	<0.0E+00	1	UI			TM							pCi/L
Radium-226	<1.1E-01	1	UI			TM							pCi/L
Radium-228	3.8E+00	1				GP							pCi/L
Strontium-90	<1.7E-01	1	UI			GP							pCi/L
Technetium-99	<-2.5E-01	1	UI			TM							pCi/L
Thorium-228	<-2.0E-03	1	UI			GP							pCi/L
Thorium-230	<-7.5E-02	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	2.7E+00												pCi/L
Total beta emitters	3.8E+00												pCi/L
Total radium	3.8E+00												pCi/L
Tritium	2.3E+02	1		■		TM	1.3E+00	1				GP	pCi/mL
Uranium-233/234	<1.7E-02	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UJI			TM							pCi/L
Uranium-238	<0.0E+00	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 83C

<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>Screen Zone</u>
N71636.9 E58614.8	33.279849 °N 81.651609 °W	171.2-160.2 ft msl	237.1 ft msl	4" PVC	S	Barnwell (IIB1)

<u>SAMPLE DATE</u>	01/13/98	04/01/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	225.5	227.7	ft msl
pH	5.4	5.5	pH
Sp. conductance	16	22	µS/cm
Water temperature	19.0	19.8	°C
Alkalinity as CaCO ₃	2	1	mg/L
Turbidity	1	1	NTU
Volumes purged	2.9	2.6	well vol
Sampling code			
Synchronous water level	227.7 (03/18/98)	226.8 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	2.9	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	3.3	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	38	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	1.1	1	JE			GE							µg/L
Mercury, total recoverable	<0.21	1	V			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	60	1				GE	40	1	JE			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	11	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.99	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 83C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<5.2E-01	1	UI			GP							pCi/L
Carbon-14	<1.4E+00	1	UI			GP							pCi/L
Cobalt-60	<5.0E-01	1	UI			GP							pCi/L
Curium-242	<5.0E-03	1	UI			GP							pCi/L
Curium-243/244	<3.8E-01	1	UI			GP							pCi/L
Curium-245/246	<1.2E-01	1	UI			GP							pCi/L
Gross alpha	<2.0E-01	1	UI			GP	<1.9E-02	1	UI			GP	pCi/L
Iodine-129	<2.5E-01	1	UI			GP							pCi/L
Nickel-63	<5.0E-01		UI										pCi/L
Nonvolatile beta	<1.1E+00	1	UJI			GP	<1.8E-01	1	UI			GP	pCi/L
Plutonium-238	<4.6E-01	1	UJI			GP							pCi/L
Plutonium-239/240	<1.7E-02	1	UI			GP							pCi/L
Radium-226	<1.8E-01	1	UI			GP							pCi/L
Radium-228	2.9E+00	1				GP							pCi/L
Strontium-90	<1.6E-02	1	UI			GP							pCi/L
Technetium-99	<1.3E+00	1	UI			GP							pCi/L
Thorium-228	<1.5E-01	1	UI			GP							pCi/L
Thorium-230	<1.6E-01	1	UI			GP							pCi/L
Thorium-232	<8.0E-03	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	2.9E+00												pCi/L
Total radium	2.9E+00												pCi/L
Tritium	<2.0E-01	1	UI			GP	<5.8E-01	1	UI			GP	pCi/mL
Uranium-233/234	<3.1E-02	1	UI			GP							pCi/L
Uranium-235	<2.0E-02	1	UI			GP							pCi/L
Uranium-238	<0.0E+00	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 83D

<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>Screen Zone</u>
N71628.1 E58601.7	33.279809 °N 81.651627 °W	228.7-198.7 ft msl	237 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE	01/13/98	04/01/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	225.1	227.2	ft msl
pH	5.4	5.7	pH
Sp. conductance	64	70	µS/cm
Water temperature	20.0	19.0	°C
Alkalinity as CaCO ₃	6	6	mg/L
Turbidity	1	5	NTU
Volumes purged	4.7	2.0	well vol
Sampling code			
Synchronous water level	227.7 (03/18/98)	225.8 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	34	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.2	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	28	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.27	1	V			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	4,200	3				GE	4,700	5				GE	µg/L
Selenium, total recoverable	<1.7	1	JEV			GE							µg/L
Silver, total recoverable	<0.78	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	16	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.2	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 83D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.7E-01	1	UI			GP							pCi/L
Carbon-14	2.4E+01	1				GP							pCi/L
Cobalt-60	<4.0E-01	1	UI			GP							pCi/L
Curium-242	<4.7E-02	1	UI			GP							pCi/L
Curium-243/244	<9.5E-02	1	UI			GP							pCi/L
Curium-245/246	<9.5E-02	1	UI			GP							pCi/L
Gross alpha	1.5E+00	1				GP	1.5E+00	1				GP	pCi/L
Iodine-129	<5.9E-01	1	UI			GP							pCi/L
Nickel-63	<4.0E-01		UI										pCi/L
Nonvolatile beta	1.8E+01	1	J			GP	4.8E+01	1				GP	pCi/L
Plutonium-238	<2.6E-01	1	UI			GP							pCi/L
Plutonium-239/240	<1.1E-02	1	UI			GP							pCi/L
Radium-226	4.9E-01	1	UIV			GP							pCi/L
Radium-228	4.0E+00	1				GP							pCi/L
Strontium-90	5.5E+00	1				GP							pCi/L
Technetium-99	<1.7E+01	1	UI			GP							pCi/L
Thorium-228	<8.7E-02	1	UI			GP							pCi/L
Thorium-230	<8.3E-02	1	UI			GP							pCi/L
Thorium-232	<2.3E-02	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	3.3E+01												pCi/L
Total radium	4.0E+00												pCi/L
Tritium	3.2E+02	1			■	GP	2.8E+02	1			■	GP	pCi/mL
Uranium-233/234	<9.7E-02	1	UI			GP							pCi/L
Uranium-235	<8.4E-02	1	UI			GP							pCi/L
Uranium-238	<4.8E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 84A

<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>Screen Zone</u>
N71586.2 E56359.1	33.276057 °N 81.657450 °W	75.9-64.7 ft msl	228.7 ft msl	4" PVC	V	L. Congaree (IIA)

SAMPLE DATE 01/05/98 04/01/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	171.9	173.1	ft msl
pH	6.3	5.5	pH
Sp. conductance	80	70	µS/cm
Water temperature	27.5	19.8	°C
Alkalinity as CaCO ₃	35	35	mg/L
Turbidity	1	0	NTU
Volumes purged	2.0	2.1	well vol
Sampling code			
Synchronous water level	172.98 (03/17/98)	173.0 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	3.5	1	JE			GE							µg/L
Barium, total recoverable	25	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.8	1	JE			GE							µg/L
Cobalt, total recoverable	0.78	1	JE			GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	1.3	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	70	1	V			GE	50	1	JE			GE	µg/L
Selenium, total recoverable	2.9	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.60	1	JE			GE							µg/L
Zinc, total recoverable	<2.1	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 84A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-1.6E-02	1	UI			GP							pCi/L
Carbon-14	<-9.8E+00	1	UI			GP							pCi/L
Cobalt-60	<2.2E-02	1	UI			GP							pCi/L
Curium-242	<-4.4E-02	1	UI			GP							pCi/L
Curium-243/244	<1.2E-01	1	UI			GP							pCi/L
Curium-245/246	<2.4E-01	1	UI			GP							pCi/L
Gross alpha	9.3E-01	1				GP	1.6E+00	1				GP	pCi/L
Iodine-129	<9.1E-02	1	UJI			GP							pCi/L
Nickel-63	<2.2E-02		UI										pCi/L
Nonvolatile beta	2.3E+01	1				GP	2.1E+01	1				GP	pCi/L
Plutonium-238	<5.5E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-3.0E-02	1	UI			GP							pCi/L
Radium-226	1.6E+00	1				GP							pCi/L
Radium-228	2.9E+00	1				GP							pCi/L
Strontium-90	1.3E+01	1			■	GP							pCi/L
Technetium-99	<-5.3E+00	1	UI			GP							pCi/L
Thorium-228	<-8.1E-02	1	UI			GP							pCi/L
Thorium-230	3.5E-01	1	V			GP							pCi/L
Thorium-232	<-8.0E-03	1	UI			GP							pCi/L
Total alpha emitters	3.5E-01												pCi/L
Total beta emitters	1.6E+01												pCi/L
Total radium	4.5E+00												pCi/L
Tritium	5.0E+00	1				GP	3.6E+00	1				GP	pCi/mL
Uranium-233/234	<1.3E-01	1	UI			GP							pCi/L
Uranium-235	<-1.0E-02	1	UI			GP							pCi/L
Uranium-238	<3.1E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 84B

<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>Screen Zone</u>
N71603.3 E56352.4	33.276084 °N 81.657501 °W	132.9-121.8 ft msl	228.9 ft msl	4" PVC	S	McBean (IIB1)

SAMPLE DATE	01/05/98	04/02/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation		212.1	ft msl
pH	9.3	7.6	pH
Sp. conductance	110	170	µS/cm
Water temperature	28.0	22.9	°C
Alkalinity as CaCO ₃	67	76	mg/L
Turbidity	8	0	NTU
Volumes purged		2.1	well vol
Sampling code	XN		
Synchronous water level	212.54 (03/17/98)	211.6 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	48	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	4.0	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	1.2	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	1,600	1	V			GE	670	1	J			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	1.4	1	JE			GE							µg/L
Zinc, total recoverable	<4.6	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 84B (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.9E-01	1	UI			GP							pCi/L
Carbon-14	<1.5E+01	1	UI			GP							pCi/L
Cobalt-60	<6.4E-01	1	UI			GP							pCi/L
Curium-242	<2.5E-02	1	UI			GP							pCi/L
Curium-243/244	<4.5E-02	1	UI			GP							pCi/L
Curium-245/246	<9.2E-02	1	UI			GP							pCi/L
Gross alpha	9.2E-01	1				GP	<3.9E-01	1	UI			GP	pCi/L
Iodine-129	<2.6E-01	1	UJI1			GP							pCi/L
Nickel-63	<6.4E-01		UI										pCi/L
Nonvolatile beta	6.8E+00	1				GP	5.1E+00	1				GP	pCi/L
Plutonium-238	<1.9E-01	1	UI			GP							pCi/L
Plutonium-239/240	<1.6E-01	1	UI			GP							pCi/L
Radium-226	1.4E+00	1				GP							pCi/L
Radium-228	2.0E+00	1				GP							pCi/L
Strontium-90	<1.0E+00	1	UI			GP							pCi/L
Technetium-99	<7.3E-01	1	UI			GP							pCi/L
Thorium-228	<5.5E-02	1	UI			GP							pCi/L
Thorium-230	2.1E-01	1	UIV			GP							pCi/L
Thorium-232	<-1.8E-02	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	2.0E+00												pCi/L
Total radium	3.5E+00												pCi/L
Tritium	5.0E+01	1		■		GP	1.9E+01	1				GP	pCi/mL
Uranium-233/234	<1.5E-01	1	UI			GP							pCi/L
Uranium-235	<2.5E-02	1	UI			GP							pCi/L
Uranium-238	<9.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 84C

<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>Screen Zone</u>
N71597.1 E56360.1	33.276083 °N 81.657469 °W	181.8-170.9 ft msl	229.1 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE	01/06/98	04/02/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	213.8	215.1	ft msl
pH	6.1	7.7	pH
Sp. conductance	84	95	µS/cm
Water temperature	25.5	20.1	°C
Alkalinity as CaCO ₃	25	25	mg/L
Turbidity	2	1.3	NTU
Volumes purged	0.0	0.55	well vol
Sampling code	XN	XN	
Synchronous water level	215.47 (03/17/98)	214.4 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	14	1				GE							µg/L
Cadmium, total recoverable	1.1	1	JE			GE							µg/L
Chromium, total recoverable	2.1	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	5.0	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<4.6	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	3,200	2	J			GE	3,400	2	J			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.62	1	JE			GE							µg/L
Zinc, total recoverable	120	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	0.49	1	JE			GE							µg/L
Trichloroethylene	0.34	1	JE			GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 84C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-3.3E-02	1	UI			GP							pCi/L
Carbon-14	<-2.9E+00	1	UI			GP							pCi/L
Cobalt-60	<2.4E-01	1	UI			GP							pCi/L
Curium-242	<-1.7E-01	1	UI			GP							pCi/L
Curium-243/244	<1.1E-01	1	UJI			GP							pCi/L
Curium-245/246	<8.5E-02	1	UI			GP							pCi/L
Gross alpha	4.3E-01	1				GP	4.8E-01	1				GP	pCi/L
Iodine-129	<4.4E-01	1	UI			GP							pCi/L
Nickel-63	<2.4E-01		UI										pCi/L
Nonvolatile beta	6.6E+00	1				GP	8.7E+00	1				GP	pCi/L
Plutonium-238	7.3E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<1.2E-02	1	UI			GP							pCi/L
Radium-226	<3.6E-01	1	UI			GP							pCi/L
Radium-228	2.6E+00	1	J			GP							pCi/L
Strontium-90	<7.6E-01	1	UI			GP							pCi/L
Technetium-99	<1.3E+01	1	UI			GP							pCi/L
Thorium-228	<8.4E-02	1	UI			GP							pCi/L
Thorium-230	<8.1E-02	1	UI			GP							pCi/L
Thorium-232	<2.2E-02	1	UJI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	2.6E+00												pCi/L
Total radium	2.6E+00												pCi/L
Tritium	5.5E+00	1				GP	4.3E+02	1			■	GP	pCi/mL
Uranium-233/234	<6.0E-02	1	UI			GP							pCi/L
Uranium-235	<3.8E-02	1	UI			GP							pCi/L
Uranium-238	<-2.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 84D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71583.9 E56349.9	33.276037 °N 81.657470 °W	219.5-199.5 ft msl	228.8 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/07/98	04/16/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	219.0	220.4	ft msl
pH	3.8	4.4	pH
Sp. conductance	44	44	µS/cm
Water temperature	19.0	16.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	3.1	2.4	well vol
Sampling code			
Synchronous water level	220.15 (03/17/98)	219.1 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	1.8	1	JE			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	5.0	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	4.1	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	13	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	1.8	1	JE			GE							µg/L
Mercury, total recoverable	<0.34	1	V			GE	0.16	1	JE			GE	µg/L
Nickel, total recoverable	4.1	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	2,000	1				GE	2,000	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	56	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	0.38	1	JE			GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 84D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<8.0E-03	1	UI			GP							pCi/L
Carbon-14	<5.7E+00	1	UI			GP							pCi/L
Cobalt-60	<4.9E+00	1	UI			GP							pCi/L
Curium-242	<-2.5E-02	1	UI			GP							pCi/L
Curium-243/244	<-1.9E-02	1	UI			GP							pCi/L
Curium-245/246	<-1.2E-02	1	UI			GP							pCi/L
Gross alpha	2.0E+00	1				GP	4.9E+00	1				GP	pCi/L
Iodine-129	<8.9E-01	1	UI			GP							pCi/L
Nickel-63	<4.9E+00		UI										pCi/L
Nonvolatile beta	1.2E+02	1		■		GP	1.9E+02	1		■		GP	pCi/L
Plutonium-238	1.6E+00	1	UIV			GP							pCi/L
Plutonium-239/240	<3.9E-01	1	UII			GP							pCi/L
Radium-226	4.7E-01	1	UIV			GP							pCi/L
Radium-228	6.5E+00	1	J	■		GP							pCi/L
Strontium-90	6.5E+01	1		■		GP							pCi/L
Technetium-99	<-6.2E+00	1	UI			GP							pCi/L
Thorium-228	<2.7E-02	1	UI			GP							pCi/L
Thorium-230	<1.4E-02	1	UI			GP							pCi/L
Thorium-232	<-1.4E-02	1	UI			GP							pCi/L
Total alpha emitters	1.6E+00												pCi/L
Total beta emitters	7.2E+01			■									pCi/L
Total radium	6.5E+00			■									pCi/L
Tritium	1.6E+02	1		■		GP	1.7E+02	1		■		GP	pCi/mL
Uranium-233/234	1.4E+00	1	.			GP							pCi/L
Uranium-235	<-8.0E-03	1	UI			GP							pCi/L
Uranium-238	2.0E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N73791.9 E58943.4	33.285152 °N 81.654930 °W	71.1-61.1 ft msl	294.4 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	01/12/98	04/01/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	168.9	169.9	ft msl
pH	5.9	6.7	pH
Sp. conductance	140	130	µS/cm
Water temperature	18.5	20.5	°C
Alkalinity as CaCO ₃	80	32	mg/L
Turbidity	0	1	NTU
Volumes purged	2.7	2.5	well vol
Sampling code			
Synchronous water level	169.9 (03/17/98)	169.8 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE	<27	1				WA	µg/L
Arsenic, total recoverable	<5.0	1				GE	<40	1				WA	µg/L
Barium, total recoverable	30	1				GE	31	1	V			WA	µg/L
Cadmium, total recoverable	<5.0	1				GE	1.4	1	JE			WA	µg/L
Chromium, total recoverable	1.0	1	JE			GE	1.8	1	JE			WA	µg/L
Cobalt, total recoverable	<5.0	1				GE						µg/L	
Copper, total recoverable	<5.0	1				GE	<15	1				WA	µg/L
Cyanide	<10	1				GE						µg/L	
Lead, total recoverable	<2.1	1	JEV			GE	5.5	1	JE			WA	µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE	<26	1				WA	µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	180	1				GE	30	1	JE			GE	µg/L
Selenium, total recoverable	<5.0	1				GE	<66	1				WA	µg/L
Silver, total recoverable	<1.4	1	JEV			GE	<5.0	1				WA	µg/L
Tin, total recoverable	<10	1				GE	<70	1				WA	µg/L
Vanadium, total recoverable	<5.0	1				GE						µg/L	
Zinc, total recoverable	<4.9	1	JEV			GE	<53	1				WA	µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE	<5.0	1				WA	µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE						µg/L	
Dichloromethane	<3.3	1	V			GE	<3.9	1	V			WA	µg/L
Tetrachloroethylene	<1.0	1				GE	<5.0	1				WA	µg/L
Trichloroethylene	<1.0	1				GE	<5.0	1				WA	µg/L
Trichlorofluoromethane	<1.0	1				GE	<5.0	1				WA	µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 85A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<4.9E-02	1	UI			GP							pCi/L
Carbon-14	<8.9E-02	1	UI			GP	<-9.0E+01	1	UI			TM	pCi/L
Cobalt-60	<4.8E-01	1	UI			GP							pCi/L
Curium-242	<-1.4E-02	1	UI			GP							pCi/L
Curium-243/244	<7.9E-02	1	UI			GP							pCi/L
Curium-245/246	<-1.2E-02	1	UI			GP							pCi/L
Gross alpha	<4.9E-01	1	UI			GP	9.1E-01	1				GP	pCi/L
Iodine-129	<-1.4E-01	1	UI			GP							pCi/L
Nickel-63	<4.8E-01		UI										pCi/L
Nonvolatile beta	<7.5E-01	1	UI			GP	6.1E+00	1	J			TM	pCi/L
Plutonium-238	<-2.5E-02	1	UI			GP							pCi/L
Plutonium-239/240	<2.3E-02	1	UI			GP							pCi/L
Radium, total alpha-emitting							<2.3E-01	1	UI			TM	pCi/L
Radium-226	3.1E-01	1				GP							pCi/L
Radium-228	2.6E+00	1				GP							pCi/L
Strontium-90	<9.9E-02	1	UI			GP	<0.0E+00	1	UI			TM	pCi/L
Technetium-99	<-3.8E-01	1	UI			GP							pCi/L
Thorium-228	<-5.0E-02	1	UI			GP							pCi/L
Thorium-230	1.3E-01	1				GP							pCi/L
Thorium-232	<-5.0E-03	1	UI			GP							pCi/L
Total alpha emitters	1.3E-01												pCi/L
Total beta emitters	2.6E+00												pCi/L
Total radium	2.9E+00												pCi/L
Tritium	<-3.0E-01	1	UI			GP	<2.2E-01	1	UJI1			GP	pCi/mL
Uranium-233/234	<-2.6E-02	1	UI			GP							pCi/L
Uranium-235	<5.6E-02	1	UI			GP							pCi/L
Uranium-238	<4.7E-02	1	UJI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 85B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N73789.3 E58953.3	33.285162 °N 81.654898 °W	143.2-133.2 ft msl	294.5 ft msl	4" PVC	S	McBean (IIB1)

SAMPLE DATE 01/14/98 04/01/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	232.1	235.7	ft msl
pH	6.8	8.1	pH
Sp. conductance	180	150	µS/cm
Water temperature	18.5	21.2	°C
Alkalinity as CaCO ₃	94	46	mg/L
Turbidity	2	2.2	NTU
Volumes purged	0.015	0.51	well vol
Sampling code	XN	XN	
Synchronous water level	234.9 (03/17/98)	235.9 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE	<27	1				WA	µg/L
Arsenic, total recoverable	<5.0	1				GE	<40	1				WA	µg/L
Barium, total recoverable	29	1				GE	19	1	V			WA	µg/L
Cadmium, total recoverable	<5.0	1				GE	4.1	1	JE			WA	µg/L
Chromium, total recoverable	3.0	1	JE			GE	3.6	1	JE			WA	µg/L
Cobalt, total recoverable	<5.0	1				GE						µg/L	
Copper, total recoverable	<5.0	1				GE	<15	1				WA	µg/L
Cyanide	<10	1	J			GE						µg/L	
Lead, total recoverable	0.91	1	JE			GE	9.8	1	JE			WA	µg/L
Mercury, total recoverable	<0.14	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE	<26	1				WA	µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	80	1				GE	40	1	JE			GE	µg/L
Selenium, total recoverable	<5.0	1				GE	<66	1				WA	µg/L
Silver, total recoverable	1.4	1	JE			GE	<5.0	1				WA	µg/L
Tin, total recoverable	<10	1				GE	<70	1				WA	µg/L
Vanadium, total recoverable	1.5	1	JE			GE						µg/L	
Zinc, total recoverable	<8.9	1	V			GE	5.9	1	JE			WA	µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE	<5.0	1				WA	µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE						µg/L	
Dichloromethane	<0.80	1	JEV			GE	<3.9	1	V			WA	µg/L
Tetrachloroethylene	<1.0	1				GE	<5.0	1				WA	µg/L
Trichloroethylene	<1.0	1				GE	<5.0	1				WA	µg/L
Trichlorofluoromethane	<1.0	1				GE	<5.0	1				WA	µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 85B (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	8.9E-01	1	UIV			GP							pCi/L
Carbon-14	<4.7E-01	1	UI			GP	<-1.4E+02	1	UI			TM	pCi/L
Cobalt-60	<2.2E-01	1	UI			GP							pCi/L
Curium-242	<1.1E-01	1	UI			GP							pCi/L
Curium-243/244	<2.5E-01	1	UI			GP							pCi/L
Curium-245/246	<6.5E-02	1	UI			GP							pCi/L
Gross alpha	1.1E+00	1				GP	1.6E+00	1				GP	pCi/L
Iodine-129	<7.6E-01	1	UI			GP							pCi/L
Nickel-63	<2.2E-01		UI										pCi/L
Nonvolatile beta	2.2E+01	1				GP	4.6E+00	1	J			TM	pCi/L
Plutonium-238	<1.4E-01	1	UJI			GP							pCi/L
Plutonium-239/240	7.8E-01	1				GP							pCi/L
Radium, total alpha-emitting							<1.3E-01	1	UI			TM	pCi/L
Radium-226	4.4E-01	1	UIV			GP							pCi/L
Radium-228	2.3E+00	1				GP							pCi/L
Strontium-90	<-9.0E-03	1	UI			GP	<0.0E+00	1	UI			TM	pCi/L
Technetium-99	<-1.9E+00	1	UI			GP							pCi/L
Thorium-228	<-7.3E-02	1	UI			GP							pCi/L
Thorium-230	<5.6E-02	1	UI			GP							pCi/L
Thorium-232	<7.8E-02	1	UI			GP							pCi/L
Total alpha emitters	7.8E-01												pCi/L
Total beta emitters	2.3E+00												pCi/L
Total radium	2.3E+00												pCi/L
Tritium	<5.4E-02	1	UI			GP	3.2E+00	1				TM	pCi/mL
Uranium-233/234	<1.5E-01	1	UI			GP							pCi/L
Uranium-235	<2.1E-02	1	UI			GP							pCi/L
Uranium-238	<7.2E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 85C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 (IIB2)

SAMPLE DATE	01/12/98	04/20/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	237.7	242.3	ft msl
pH	4.2	3.9	pH
Sp. conductance	37	38	µS/cm
Water temperature	19.3	20.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	0	NTU
Volumes purged	2.4	5.3	well vol
Sampling code			
Synchronous water level	240.8 (03/17/98)	243.1 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE	<27	1					WA µg/L
Arsenic, total recoverable	<5.0	1				GE	<40	1					WA µg/L
Barium, total recoverable	9.3	1				GE	11	1	V				WA µg/L
Cadmium, total recoverable	<5.0	1				GE	1.2	1	JE				WA µg/L
Chromium, total recoverable	<5.0	1				GE	<7.0	1					WA µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	37	1				GE	69	1					WA µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.6	1	JEV			GE	<47	1					WA µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1					GE µg/L
Nickel, total recoverable	<5.0	1				GE	<26	1					WA µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	2,500	3				GE	2,700	2					GE µg/L
Selenium, total recoverable	<1.5	1	JEV			GE	<66	1					WA µg/L
Silver, total recoverable	<0.95	1	JEV			GE	<5.0	1					WA µg/L
Tin, total recoverable	<10	1				GE	<70	1					WA µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<1.7	1	JEV			GE	<53	1					WA µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE	<5.0	1					WA µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.3	1	V			GE	<3.9	1	V				WA µg/L
Tetrachloroethylene	<1.0	1				GE	<5.0	1					WA µg/L
Trichloroethylene	<1.0	1				GE	<5.0	1					WA µg/L
Trichlorofluoromethane	<1.0	1				GE	<5.0	1					WA µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 85C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<1.6E-01	1	UI			GP							pCi/L
Carbon-14	<3.8E+00	1	UI			GP	<-2.0E+01	1	UI			TM	pCi/L
Cobalt-60	<-4.7E-02	1	UI			GP							pCi/L
Curium-242	<-3.3E-02	1	UI			GP							pCi/L
Curium-243/244	<3.9E-02	1	UI			GP							pCi/L
Curium-245/246	<8.2E-02	1	UI			GP							pCi/L
Gross alpha	2.5E+00	1				GP	3.3E+00	1				GP	pCi/L
Iodine-129	2.6E+00	1	R4			GP							pCi/L
Nickel-63	<-4.7E-02		UI										pCi/L
Nonvolatile beta	2.7E+00	1	J			GP	3.9E+00	1	J			TM	pCi/L
Plutonium-238	<-6.3E-02	1	UI			GP							pCi/L
Plutonium-239/240	<6.0E-03	1	UI			GP							pCi/L
Radium, total alpha-emitting							9.3E-01	1				TM	pCi/L
Radium-226	1.2E+00	1				GP							pCi/L
Radium-228	4.8E+00	1				GP							pCi/L
Strontium-90	<2.8E-01	1	UI			GP	<6.9E-01	1	UI			TM	pCi/L
Technetium-99	<-4.7E+00	1	UI			GP							pCi/L
Thorium-228	<1.6E-01	1	UI			GP							pCi/L
Thorium-230	<6.5E-02	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	4.8E+00												pCi/L
Total radium	6.0E+00												pCi/L
Tritium	8.3E+00	1	.			GP	1.0E+01	1				TM	pCi/mL
Uranium-233/234	<1.5E-01	1	UI			GP							pCi/L
Uranium-235	<-1.4E-02	1	UI			GP							pCi/L
Uranium-238	<3.0E-02	1	UJI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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	01/05/98	04/21/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	168.6	169.9	ft msl
pH	5.8	7.4	pH
Sp. conductance	98	110	µS/cm
Water temperature	26.0	18.7	°C
Alkalinity as CaCO ₃	49	47	mg/L
Turbidity	1	0	NTU
Volumes purged	2.3	2.4	well vol
Sampling code			
Synchronous water level	169.6 (03/17/98)	169.8 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	22	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	1.8	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	<40	1	JEV			GE	18	1	JE			WA	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<2.8	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 86A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<1.8E-01	1	UI			GP							pCi/L
Carbon-14	<-5.9E+00	1	UI			GP							pCi/L
Cobalt-60	<6.6E-01	1	UI			GP							pCi/L
Curium-242	<-1.6E-02	1	UI			GP							pCi/L
Curium-243/244	<-3.4E-02	1	UI			GP							pCi/L
Curium-245/246	<-1.5E-02	1	UI			GP							pCi/L
Gross alpha	1.1E+00	1				GP	<4.8E-01	1	UI			GP	pCi/L
Iodine-129	<-5.9E-02	1	UJI1			GP							pCi/L
Nickel-63	<6.6E-01		UI										pCi/L
Nonvolatile beta	1.6E+00	1				GP	1.4E+00	1				GP	pCi/L
Plutonium-238	<3.0E-01	1	UI			GP							pCi/L
Plutonium-239/240	<8.2E-02	1	UI			GP							pCi/L
Radium-226	1.2E+00	1				GP							pCi/L
Radium-228	2.4E+00	1				GP							pCi/L
Strontium-90	<4.7E-01	1	UI			GP							pCi/L
Technetium-99	<-4.8E+00	1	UI			GP							pCi/L
Thorium-228	<-5.2E-02	1	UI			GP							pCi/L
Thorium-230	<1.6E-01	1	UI			GP							pCi/L
Thorium-232	<-3.0E-02	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	2.4E+00												pCi/L
Total radium	3.6E+00												pCi/L
Tritium	7.6E-01	1				GP	1.6E+00	1				GP	pCi/mL
Uranium-233/234	<7.0E-02	1	UI			GP							pCi/L
Uranium-235	<6.2E-02	1	UI			GP							pCi/L
Uranium-238	<1.4E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB1)

SAMPLE DATE	01/05/98	04/20/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	221.5	224.4	ft msl
pH	7.0	7.4	pH
Sp. conductance	170	180	µS/cm
Water temperature	27.0	20.0	°C
Alkalinity as CaCO ₃	101	101	mg/L
Turbidity	2	5	NTU
Volumes purged	2.5	2.2	well vol
Sampling code			
Synchronous water level	224.5 (03/17/98)	222.9 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	37	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.4	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	60	1	V			GE	<40	1	JEV			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<2.3	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 86B (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.6E-02	1	UI			GP							pCi/L
Carbon-14	<-1.4E+01	1	UI			GP							pCi/L
Cobalt-60	<1.4E-01	1	UI			GP							pCi/L
Curium-242	<-2.2E-02	1	UI			GP							pCi/L
Curium-243/244	<8.5E-02	1	UI			GP							pCi/L
Curium-245/246	<-1.4E-02	1	UI			GP							pCi/L
Gross alpha	<6.2E-01	1	UI			GP	9.1E-01	1				GP	pCi/L
Iodine-129	<-2.7E+00	1	UJ11			GP							pCi/L
Nickel-63	<1.4E-01		UI										pCi/L
Nonvolatile beta	1.8E+00	1				GP	1.1E+00	1				GP	pCi/L
Plutonium-238	<1.6E-01	1	UI			GP							pCi/L
Plutonium-239/240	<5.5E-02	1	UI			GP							pCi/L
Radium-226	1.1E+00	1				GP							pCi/L
Radium-228	2.5E+00	1				GP							pCi/L
Strontium-90	<5.3E-01	1	UI			GP							pCi/L
Technetium-99	<-7.4E-01	1	UI			GP							pCi/L
Thorium-228	<-2.3E-02	1	UI			GP							pCi/L
Thorium-230	<8.6E-02	1	UI			GP							pCi/L
Thorium-232	<1.8E-02	1	UI			GP							pCi/L
Total alpha emitters	1.9E-01												pCi/L
Total beta emitters	2.5E+00												pCi/L
Total radium	3.6E+00												pCi/L
Tritium	1.7E+01	1				GP	<5.5E-01	1	UI			GP	pCi/mL
Uranium-233/234	<1.1E-01	1	UI			GP							pCi/L
Uranium-235	<4.9E-02	1	UI			GP							pCi/L
Uranium-238	1.9E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB1)

SAMPLE DATE	01/07/98	04/07/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	223.5	226.2	ft msl
pH	4.4	4.6	pH
Sp. conductance	360	320	µS/cm
Water temperature	18.0	20.0	°C
Alkalinity as CaCO ₃	0	5	mg/L
Turbidity	1	1	NTU
Volumes purged	3.2	3.5	well vol
Sampling code			
Synchronous water level	226.3 (03/17/98)	224.6 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<2.6	1	JEV			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	100	1				GE							µg/L
Cadmium, total recoverable	3.7	1	JE			GE							µg/L
Chromium, total recoverable	1.4	1	JE			GE							µg/L
Cobalt, total recoverable	23	1		■		GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	6.1	1				GE							µg/L
Mercury, total recoverable	2.0	1		■		GE	1.9	1				GE	µg/L
Nickel, total recoverable	36	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	41,000	20	V	■		GE	39,000	40	V	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	0.80	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	30	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 86C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-5.7E-02	1	UI			GP							pCi/L
Carbon-14	1.5E+02	1		■		GP							pCi/L
Cobalt-60	3.7E+01	1				GP							pCi/L
Curium-242	<-6.5E-02	1	UI			GP							pCi/L
Curium-243/244	<-9.8E-02	1	UI			GP							pCi/L
Curium-245/246	1.1E-01	1	R4			GP							pCi/L
Gross alpha	2.3E+01	1		■		GP	2.7E+01	1		■		GP	pCi/L
Iodine-129	1.3E+01	1				GP							pCi/L
Nickel-63	3.3E+02	1		■		GP							pCi/L
Nonvolatile beta	6.7E+02	1		■		GP	5.9E+02	1	V	■		GP	pCi/L
Plutonium-238	<1.1E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-1.1E-02	1	UI			GP							pCi/L
Radium-226	1.5E+01	1		■		GP							pCi/L
Radium-228	3.2E+00	1				GP							pCi/L
Strontium-90	3.6E+02	1		■		GP							pCi/L
Technetium-99	1.4E+02	1		■		GP							pCi/L
Thorium-228	<2.1E-01	1	UI			GP							pCi/L
Thorium-230	<1.7E-02	1	UI			GP							pCi/L
Thorium-232	<-2.9E-02	1	UI			GP							pCi/L
Total alpha emitters	1.8E+00												pCi/L
Total beta emitters	1.0E+03			■									pCi/L
Total radium	1.9E+01												pCi/L
Tritium	9.4E+03	1		■		GP	8.8E+03	1		■		GP	pCi/mL
Uranium-233/234	1.2E+00	1				GP							pCi/L
Uranium-235	<7.5E-02	1	UI			GP							pCi/L
Uranium-238	5.5E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N72522.1 E55996.5	33.277536 °N 81.660223 °W	236.6-206.6 ft msl	263 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/07/98	04/07/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	223.5	226.3	ft msl
pH	6.6	3.8	pH
Sp. conductance	280	120	µS/cm
Water temperature	18.0	19.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	4.6	3.8	well vol
Sampling code			
Synchronous water level	226.2 (03/17/98)	224.6 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	56	1				GE							µg/L
Cadmium, total recoverable	0.54	1	JE			GE							µg/L
Chromium, total recoverable	1.8	1	JE			GE							µg/L
Cobalt, total recoverable	7.9	1		■		GE							µg/L
Copper, total recoverable	110	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	48	1		■		GE							µg/L
Mercury, total recoverable	0.72	1				GE	0.60	1				GE	µg/L
Nickel, total recoverable	11	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	35,000	20	V	■		GE	8,900	5	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	0.66	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	82	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB 86D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.6E-02	1	UI			GP							pCi/L
Carbon-14	1.1E+02	1		■		GP							pCi/L
Cobalt-60	5.8E+01	1		■		GP							pCi/L
Curium-242	<-1.4E-02	1	UI			GP							pCi/L
Curium-243/244	<2.9E-01	1	UI			GP							pCi/L
Curium-245/246	<4.5E-02	1	UI			GP							pCi/L
Gross alpha	3.9E+01	1		■		GP	1.2E+01	1				GP	pCi/L
Iodine-129	1.8E+01	1				GP							pCi/L
Nickel-63	5.8E+01			■									pCi/L
Nonvolatile beta	2.0E+03	1		■		GP	4.3E+02	1	V	■		GP	pCi/L
Plutonium-238	<1.8E-01	1	UI			GP							pCi/L
Plutonium-239/240	<7.0E-03	1	UI			GP							pCi/L
Radium-226	1.6E+01	1		■		GP							pCi/L
Radium-228	8.4E+00	1		■		GP							pCi/L
Strontium-90	9.1E+02	1		■		GP							pCi/L
Technetium-99	7.1E+01	1		■		GP							pCi/L
Thorium-228	<1.7E-01	1	UI			GP							pCi/L
Thorium-230	<1.9E-01	1	UI			GP							pCi/L
Thorium-232	<-9.0E-03	1	UI			GP							pCi/L
Total alpha emitters	2.7E+00												pCi/L
Total beta emitters	1.2E+03			■									pCi/L
Total radium	2.4E+01												pCi/L
Tritium	4.4E+03	1		■		GP	5.1E+02	1		■		GP	pCi/mL
Uranium-233/234	1.9E+00	1				GP							pCi/L
Uranium-235	2.1E-01	1				GP							pCi/L
Uranium-238	6.1E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N72077.2 E58806.5	33.281136 °N 81.651960 °W	163.0-153.0 ft msl	260.2 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE 01/06/98 04/20/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	226.0	230.2	ft msl
pH	5.4	4.9	pH
Sp. conductance	29	30	µS/cm
Water temperature	28.0	18.7	°C
Alkalinity as CaCO ₃	6	7	mg/L
Turbidity	1	1	NTU
Volumes purged	2.4	2.7	well vol
Sampling code			
Synchronous water level	229.7 (03/17/98)	229.3 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	3.0	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.5	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<1.6	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	5,600	3				GE	190	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	6.3	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB100C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-7.8E-02	1	UI			GP							pCi/L
Carbon-14	<8.1E+00	1	UI			GP							pCi/L
Cobalt-60	<-6.8E-01	1	UI			GP							pCi/L
Curium-242	<-2.1E-02	1	UI			GP							pCi/L
Curium-243/244	<1.2E-01	1	UJI			GP							pCi/L
Curium-245/246	<-1.0E-02	1	UI			GP							pCi/L
Gross alpha	<1.6E-01	1	UI			GP	<7.0E-03	1	UI			GP	pCi/L
Iodine-129	<-8.4E-04	1	UI			GP							pCi/L
Nickel-63	<-6.8E-01		UI										pCi/L
Nonvolatile beta	<4.0E-01	1	UI			GP	<6.7E-01	1	UI			GP	pCi/L
Plutonium-238	<4.8E-01	1	UI			GP							pCi/L
Plutonium-239/240	<2.5E-02	1	UI			GP							pCi/L
Radium-226	4.1E-01	1	UIV			GP							pCi/L
Radium-228	1.4E+00	1	J			GP							pCi/L
Strontium-90	<-4.0E-03	1	UI			GP							pCi/L
Technetium-99	<-2.2E-01	1	UI			GP							pCi/L
Thorium-228	<6.1E-02	1	UI			GP							pCi/L
Thorium-230	<2.4E-01	1	UI			GP							pCi/L
Thorium-232	<-1.2E-02	1	UJI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	1.4E+00												pCi/L
Total radium	1.4E+00												pCi/L
Tritium	8.0E-01	1				GP	9.0E-01	1				GP	pCi/mL
Uranium-233/234	<3.1E-02	1	UI			GP							pCi/L
Uranium-235	<3.1E-02	1	UI			GP							pCi/L
Uranium-238	<-1.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB100D

<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>Screen Zone</u>
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 (IIB2)

SAMPLE DATE	01/06/98	04/20/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	234.7	239.7	ft msl
pH	5.3	5.0	pH
Sp. conductance	75	80	µS/cm
Water temperature	28.0	18.6	°C
Alkalinity as CaCO ₃	12	8	mg/L
Turbidity	1	2	NTU
Volumes purged	3.7	3.2	well vol
Sampling code			
Synchronous water level	239.3 (03/17/98)	237.6 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	19	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.9	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	5.7	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<2.5	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	3,800	3				GE	4,400	5	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	15	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	0.33	1	JE			GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB100D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.5E-01	1	UI			GP							pCi/L
Carbon-14	<3.8E+00	1	UI			GP							pCi/L
Cobalt-60	<2.6E-01	1	UI			GP							pCi/L
Curium-242	<-1.0E-02	1	UI			GP							pCi/L
Curium-243/244	<6.8E-02	1	UJI			GP							pCi/L
Curium-245/246	<4.3E-02	1	UI			GP							pCi/L
Gross alpha	2.9E+00	1				GP	2.1E+00	1				GP	pCi/L
Iodine-129	<6.0E-01	1	UI			GP							pCi/L
Nickel-63	<2.6E-01		UI										pCi/L
Nonvolatile beta	1.1E+02	1		■		GP	1.0E+02	1		■		GP	pCi/L
Plutonium-238	<3.3E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-3.5E-02	1	UI			GP							pCi/L
Radium-226	1.1E+00	1				GP							pCi/L
Radium-228	9.2E+00	1	J	■		GP							pCi/L
Strontium-90	5.5E+01	1		■		GP							pCi/L
Technetium-99	<1.2E+00	1	UI			GP							pCi/L
Thorium-228	<2.4E-01	1	UI			GP							pCi/L
Thorium-230	<3.4E-01	1	UI			GP							pCi/L
Thorium-232	<-1.5E-02	1	UJI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	6.4E+01												pCi/L
Total radium	1.0E+01												pCi/L
Tritium	7.9E+01	1		■		GP	4.7E+01	1		■		GP	pCi/mL
Uranium-233/234	<1.5E-01	1	UI			GP							pCi/L
Uranium-235	<-1.3E-01	1	UI			GP							pCi/L
Uranium-238	<7.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB101C

<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>Screen Zone</u>
N72001.9 E58604.4	33.280640 °N 81.652346 °W	176.3-166.3 ft msl	258.5 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/06/98	04/16/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	225.7	228.8	ft msl
pH	5.2	5.6	pH
Sp. conductance	39	48	µS/cm
Water temperature	28.0	20.0	°C
Alkalinity as CaCO ₃	9	10	mg/L
Turbidity	2	1	NTU
Volumes purged	3.0	2.6	well vol
Sampling code			
Synchronous water level	228.4 (03/17/98)	228.0 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	12	1				GE							µg/L
Cadmium, total recoverable	0.25	1	JE			GE							µg/L
Chromium, total recoverable	2.7	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.1	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	1,400	1				GE	1,500	1				GE	µg/L
Selenium, total recoverable	2.5	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	6.2	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB101C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.3E-01	1	UI			GP							pCi/L
Carbon-14	<-1.2E+01	1	UI			GP							pCi/L
Cobalt-60	<-1.4E-01	1	UI			GP							pCi/L
Curium-242	<7.3E-02	1	UI			GP							pCi/L
Curium-243/244	<1.6E-01	1	UJI			GP							pCi/L
Curium-245/246	<0.0E+00	1	UI			GP							pCi/L
Gross alpha	<2.1E-01	1	UI			GP	<4.2E-01	1	UI			GP	pCi/L
Iodine-129	<1.1E-02	1	UI			GP							pCi/L
Nickel-63	<-1.4E-01		UI										pCi/L
Nonvolatile beta	1.8E+00	1				GP	1.3E+00	1				GP	pCi/L
Plutonium-238	8.1E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<2.2E-02	1	UI			GP							pCi/L
Radium-226	6.8E-01	1				GP							pCi/L
Radium-228	4.4E+00	1	J			GP							pCi/L
Strontium-90	<7.1E-01	1	UI			GP							pCi/L
Technetium-99	<-3.3E+00	1	UI			GP							pCi/L
Thorium-228	<-2.0E-02	1	UI			GP							pCi/L
Thorium-230	<2.6E-01	1	UI			GP							pCi/L
Thorium-232	<2.8E-02	1	UJI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	4.4E+00												pCi/L
Total radium	5.1E+00												pCi/L
Tritium	1.7E+01	1				GP	1.9E+01	1				GP	pCi/mL
Uranium-233/234	<8.6E-02	1	UI			GP							pCi/L
Uranium-235	<2.6E-02	1	UI			GP							pCi/L
Uranium-238	<2.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE	01/26/98	04/07/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	232.8	236.2	ft msl
pH	8.6	7.2	pH
Sp. conductance	640	340	µS/cm
Water temperature	18.0	21.0	°C
Alkalinity as CaCO ₃	64	52	mg/L
Turbidity	1	1	NTU
Volumes purged	4.3	3.0	well vol
Sampling code			
Synchronous water level	235.7 (03/17/98)	234.1 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	29	1				GE							µg/L
Barium, total recoverable	0.58	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	3.5	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	2.3	1		■		GE	1.6	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	21,000	20	V	■		GE	19,000	20	V	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<2.0	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	100	1		■		GE							µg/L
Zinc, total recoverable	<2.0	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.84	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	0.54	1	JE			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB101D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.2E-01	1	UI			GP							pCi/L
Carbon-14	6.8E+02	1		■		GP							pCi/L
Cobalt-60	<9.8E-01	1	UI			GP							pCi/L
Curium-242	<2.0E-01	1	UI			GP							pCi/L
Curium-243/244	<-8.0E-02	1	UI			GP							pCi/L
Curium-245/246	<1.6E-02	1	UI			GP							pCi/L
Gross alpha	6.6E+00	1				GP	6.7E+00	1				GP	pCi/L
Iodine-129	4.3E+00	1	R4			GP							pCi/L
Nickel-63	<9.8E-01	1	UI										pCi/L
Nonvolatile beta	1.2E+01	1				GP	3.8E+01	1	UIV			GP	pCi/L
Plutonium-238	<5.1E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-1.6E-01	1	UI			GP							pCi/L
Radium-226	<2.5E-01	1	UI			GP							pCi/L
Radium-228	2.4E+00	1				GP							pCi/L
Strontium-90	3.3E+00	1	J			GP							pCi/L
Technetium-99	3.2E+01	1				GP							pCi/L
Thorium-228	<-4.3E-02	1	UI			GP							pCi/L
Thorium-230	<3.7E-02	1	UI			GP							pCi/L
Thorium-232	<-1.5E-02	1	UI			GP							pCi/L
Total alpha emitters	6.4E+00			■									pCi/L
Total beta emitters	7.2E+02												pCi/L
Total radium	2.4E+00												pCi/L
Tritium	2.4E+03	1		■		GP	1.5E+03	1				GP	pCi/mL
Uranium-233/234	3.1E+00	1				GP							pCi/L
Uranium-235	<9.9E-02	1	UI			GP							pCi/L
Uranium-238	3.3E+00	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71960.1 E58399.7	33.280213 °N 81.652803 °W	176.7-166.7 ft msl	259 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE 01/08/98 04/20/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	224.9	227.7	ft msl
pH	5.8	5.8	pH
Sp. conductance	200	180	µS/cm
Water temperature	20.0	21.0	°C
Alkalinity as CaCO ₃	13	19	mg/L
Turbidity	1	0	NTU
Volumes purged	1.7	2.2	well vol
Sampling code			
Synchronous water level	227.5 (03/17/98)	226.9 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	53	1				GE							µg/L
Cadmium, total recoverable	0.71	1	JE			GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	2.5	1	JE			GE							µg/L
Copper, total recoverable	2.7	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<1.5	1	JEV			GE							µg/L
Mercury, total recoverable	0.49	1				GE	0.18	1	JE			GE	µg/L
Nickel, total recoverable	7.7	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	18,000	20		■		GE	15,000	25	V	■		GE	µg/L
Selenium, total recoverable	<3.6	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.44	1	JE			GE							µg/L
Zinc, total recoverable	26	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.83	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB102C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.9E-02	1	UI			GP							pCi/L
Carbon-14	8.8E+00	1	R4			GP							pCi/L
Cobalt-60	<8.0E-01	1	UI			GP							pCi/L
Curium-242	<3.7E-02	1	UI			GP							pCi/L
Curium-243/244	<3.2E-02	1	UI			GP							pCi/L
Curium-245/246	<1.7E-02	1	UI			GP							pCi/L
Gross alpha	4.4E+00	1				GP	2.4E+00	1				GP	pCi/L
Iodine-129	1.7E+00	1	RUI4			GP							pCi/L
Nickel-63	<8.0E-01		UI										pCi/L
Nonvolatile beta	7.1E+00	1				GP	5.8E+00	1				GP	pCi/L
Plutonium-238	<9.5E-02	1	UI			GP							pCi/L
Plutonium-239/240	<5.5E-02	1	UI			GP							pCi/L
Radium-226	6.6E-01	1				GP							pCi/L
Radium-228	2.1E+00	1	UIV			GP							pCi/L
Strontium-90	1.7E+00	1				GP							pCi/L
Technetium-99	<3.8E+00	1	UI			GP							pCi/L
Thorium-228	<1.1E-01	1	UI			GP							pCi/L
Thorium-230	3.0E-01	1				GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	3.0E-01												pCi/L
Total beta emitters	1.7E+00												pCi/L
Total radium	6.6E-01												pCi/L
Tritium	1.8E+02	1		■		GP	1.6E+02	1		■		GP	pCi/mL
Uranium-233/234	<8.7E-02	1	UI			GP							pCi/L
Uranium-235	<6.0E-02	1	UI			GP							pCi/L
Uranium-238	<5.4E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB102D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 (IIB2)

SAMPLE DATE	01/07/98	04/03/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	229.1	232.8	ft msl
pH	3.4	4	pH
Sp. conductance	360	140	µS/cm
Water temperature	19.0	20	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	13	5.8	NTU
Volumes purged	0.12	1.3	well vol
Sampling code	XN	XN	
Synchronous water level	232.7 (03/17/98)	231.4 (06/18/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	24	1				GE							µg/L
Cadmium, total recoverable	1.0	1	JE			GE							µg/L
Chromium, total recoverable	3.0	1	JE			GE							µg/L
Cobalt, total recoverable	1.7	1	JE			GE							µg/L
Copper, total recoverable	12	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	6.5	1				GE							µg/L
Mercury, total recoverable	2.9	1		■		GE	1.1	1				GE	µg/L
Nickel, total recoverable	12	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	20,000	20	V	■		GE	12,000	5		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	51	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB102D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<1.4E-01	1	UI			GP							pCi/L
Carbon-14	2.6E+02	1		■		GP							pCi/L
Cobalt-60	3.2E+01	1				GP							pCi/L
Curium-242	<0.0E+00	1	UI			GP							pCi/L
Curium-243/244	<3.9E-02	1	UI			GP							pCi/L
Curium-245/246	<3.2E-02	1	UI			GP							pCi/L
Gross alpha	9.7E+01	1		■		GP	4.8E+01	1		■		GP	pCi/L
Iodine-129	2.4E+00	1				GP							pCi/L
Nickel-63	3.2E+01												pCi/L
Nonvolatile beta	2.3E+03	1		■		GP	1.3E+03	1	V	■		GP	pCi/L
Plutonium-238	<5.0E-03	1	UI			GP							pCi/L
Plutonium-239/240	<-5.4E-02	1	UI			GP							pCi/L
Radium-226	1.9E+00	1				GP							pCi/L
Radium-228	6.2E+00	1		■		GP							pCi/L
Strontium-90	1.2E+03	1		■		GP							pCi/L
Technetium-99	6.0E+01	1		■		GP							pCi/L
Thorium-228	<1.6E-01	1	UI			GP							pCi/L
Thorium-230	<1.2E-01	1	UI			GP							pCi/L
Thorium-232	<2.0E-02	1	UI			GP							pCi/L
Total alpha emitters	8.9E+01			■									pCi/L
Total beta emitters	1.5E+03			■									pCi/L
Total radium	8.1E+00												pCi/L
Tritium	1.7E+03	1		■		GP	6.0E+02	1		■		GP	pCi/mL
Uranium-233/234	4.3E+01	1		■		GP							pCi/L
Uranium-235	3.8E+00	1				GP							pCi/L
Uranium-238	4.2E+01	1		■		GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB103C

<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>Screen Zone</u>
N71593.9 E58323.6	33.279279 °N 81.652293 °W	169.2-159.2 ft msl	247.4 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/08/98	04/20/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	224.0	226.6	ft msl
pH	5.2	4.8	pH
Sp. conductance	180	180	µS/cm
Water temperature	20.0	19.0	°C
Alkalinity as CaCO ₃	0	2	mg/L
Turbidity	0	0	NTU
Volumes purged	2.7	2.9	well vol
Sampling code			
Synchronous water level	226.4 (03/17/98)	225.6 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	60	1				GE							µg/L
Cadmium, total recoverable	0.56	1	JE			GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	12	1		■		GE							µg/L
Copper, total recoverable	1.8	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	1.8	1				GE	1.5	1				GE	µg/L
Nickel, total recoverable	5.9	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	19,000	20		■		GE	20,000	25	V	■		GE	µg/L
Selenium, total recoverable	<2.2	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	17	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.3	1	V			GE							µg/L
Tetrachloroethylene	1.4	1				GE							µg/L
Trichloroethylene	3.8	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB103C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<6.0E-03	1	UI			GP							pCi/L
Carbon-14	1.2E+02	1		■		GP							pCi/L
Cobalt-60	<-1.8E-01	1	UI			GP							pCi/L
Curium-242	<-3.9E-02	1	UI			GP							pCi/L
Curium-243/244	<-1.4E-02	1	UI			GP							pCi/L
Curium-245/246	<2.0E-02	1	UI			GP							pCi/L
Gross alpha	5.4E+00	1				GP	4.8E+00	1				GP	pCi/L
Iodine-129	2.9E+00	1				GP							pCi/L
Nickel-63	<-1.8E-01		UI										pCi/L
Nonvolatile beta	1.7E+01	1				GP	1.4E+01	1				GP	pCi/L
Plutonium-238	<-5.3E-02	1	UI			GP							pCi/L
Plutonium-239/240	<1.7E-02	1	UI			GP							pCi/L
Radium-226	2.6E+00	1				GP							pCi/L
Radium-228	2.6E+00	1	UIV			GP							pCi/L
Strontium-90	3.4E+00	1				GP							pCi/L
Technetium-99	<6.0E+00	1	UI			GP							pCi/L
Thorium-228	<-1.8E-01	1	UI			GP							pCi/L
Thorium-230	<3.7E-01	1	UI			GP							pCi/L
Thorium-232	<5.9E-02	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	1.3E+02												pCi/L
Total radium	2.6E+00												pCi/L
Tritium	4.7E+02	1		■		GP	4.7E+02	1			■	GP	pCi/mL
Uranium-233/234	<1.4E-01	1	UI			GP							pCi/L
Uranium-235	<-1.7E-02	1	UI			GP							pCi/L
Uranium-238	<2.0E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB103D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 (IIB2)

SAMPLE DATE	01/06/98	04/06/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	226.3	229.2	ft msl
pH	4.6	4.6	pH
Sp. conductance	160	140	µS/cm
Water temperature	18.0	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	6.9	4.9	well vol
Sampling code			
Synchronous water level	228.9 (03/17/98)	227.4 (06/18/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	22	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.5	1	JE			GE							µg/L
Cobalt, total recoverable	1.3	1	JE			GE							µg/L
Copper, total recoverable	13	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.1	1	V			GE							µg/L
Mercury, total recoverable	1.2	1				GE	1.4	1				GE	µg/L
Nickel, total recoverable	3.1	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	15,000	10		■		GE	14,000	5		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	23	1				GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	0.29	1	JE			GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB103D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.6E-01	1	UI			GP							pCi/L
Carbon-14	3.0E+01	1				GP							pCi/L
Cobalt-60	5.6E+00	1				GP							pCi/L
Curium-242	<-1.2E-01	1	UI			GP							pCi/L
Curium-243/244	<-1.2E-01	1	UJI			GP							pCi/L
Curium-245/246	<-1.8E-02	1	UI			GP							pCi/L
Gross alpha	1.6E+01	1		■		GP	8.1E+00	1				GP	pCi/L
Iodine-129	1.1E+01	1				GP							pCi/L
Nickel-63	5.6E+00												pCi/L
Nonvolatile beta	8.5E+02	1		■		GP	7.9E+02	1		■		GP	pCi/L
Plutonium-238	<4.6E-01	1	UI			GP							pCi/L
Plutonium-239/240	<6.6E-02	1	UI			GP							pCi/L
Radium-226	5.4E+00	1		■		GP							pCi/L
Radium-228	5.8E+01	1	J	■		GP							pCi/L
Strontium-90	6.0E+02	1		■		GP							pCi/L
Technetium-99	2.5E+01	1				GP							pCi/L
Thorium-228	<7.0E-02	1	UI			GP							pCi/L
Thorium-230	3.5E-01	1	UIV			GP							pCi/L
Thorium-232	<-3.9E-02	1	UJI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	7.3E+02												pCi/L
Total radium	6.3E+01												pCi/L
Tritium	6.9E+02	1		■		GP	5.2E+02	1		■		GP	pCi/mL
Uranium-233/234	4.7E-01	1	UIV			GP							pCi/L
Uranium-235	<5.2E-02	1	UI			GP							pCi/L
Uranium-238	<4.3E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB104C

<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>Screen Zone</u>
N71376.8 E58082.6	33.278406 °N 81.652506 °W	173.5-163.5 ft msl	247.9 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/06/98	04/20/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	221.2	223.4	ft msl
pH	9.3	9.4	pH
Sp. conductance	120	140	µS/cm
Water temperature	27.5	20.0	°C
Alkalinity as CaCO ₃	39	46	mg/L
Turbidity	1	1	NTU
Volumes purged	2.8	2.6	well vol
Sampling code			
Synchronous water level	223.3 (03/17/98)	222.4 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	75	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.2	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	7,000	5				GE	7,100	5	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.91	1	JE			GE							µg/L
Zinc, total recoverable	2.0	1	JE			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	3.1	1				GE							µg/L
Trichloroethylene	1.2	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB104C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.2E-01	1	UI			GP							pCi/L
Carbon-14	<-6.3E+00	1	UI			GP							pCi/L
Cobalt-60	<-2.5E-01	1	UI			GP							pCi/L
Curium-242	<8.0E-03	1	UI			GP							pCi/L
Curium-243/244	<7.9E-02	1	UJI			GP							pCi/L
Curium-245/246	<1.2E-01	1	UI			GP							pCi/L
Gross alpha	3.2E+00	1				GP	1.8E+00	1				GP	pCi/L
Iodine-129	<8.1E-01	1	UI			GP							pCi/L
Nickel-63	<-2.5E-01		UI										pCi/L
Nonvolatile beta	1.5E+01	1				GP	1.5E+01	1				GP	pCi/L
Plutonium-238	7.8E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<2.5E-02	1	UI			GP							pCi/L
Radium-226	8.8E-01	1				GP							pCi/L
Radium-228	4.5E+00	1	J			GP							pCi/L
Strontium-90	2.4E+02	1		■		GP							pCi/L
Technetium-99	<-2.9E+00	1	UI			GP							pCi/L
Thorium-228	<1.8E-01	1	UI			GP							pCi/L
Thorium-230	7.5E-01	1	UIV			GP							pCi/L
Thorium-232	<2.5E-01	1	UJI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	2.4E+02												pCi/L
Total radium	5.3E+00												pCi/L
Tritium	2.1E+02	1		■		GP	2.0E+02	1			■	GP	pCi/mL
Uranium-233/234	<-1.7E-02	1	UI			GP							pCi/L
Uranium-235	<3.0E-02	1	UI			GP							pCi/L
Uranium-238	<1.0E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB104D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71370.2 E58075.8	33.278380 °N 81.652511 °W	230.6-210.6 ft msl	247.8 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/06/98	04/06/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	226.1	228.8	ft msl
pH	5.2	4.2	pH
Sp. conductance	70	92	µS/cm
Water temperature	18.0	20.0	°C
Alkalinity as CaCO ₃	7	0	mg/L
Turbidity	1	0	NTU
Volumes purged	2.7	7.6	well vol
Sampling code			
Synchronous water level	228.6 (03/17/98)	227.0 (06/18/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	20	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	5.0	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<1.1	1	JEV			GE							µg/L
Mercury, total recoverable	1.1	1				GE	2.0	1		■		GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	4,400	3				GE	5,500	5				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	7.0	1				GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB104D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.6E-01	1	UI			GP							pCi/L
Carbon-14	<9.5E+00	1	UI			GP							pCi/L
Cobalt-60	1.6E+00	1				GP							pCi/L
Curium-242	<-1.2E-01	1	UI			GP							pCi/L
Curium-243/244	<3.4E-01	1	UJI			GP							pCi/L
Curium-245/246	<-1.6E-02	1	UI			GP							pCi/L
Gross alpha	8.1E+00	1				GP	6.6E+00	1				GP	pCi/L
Iodine-129	1.6E+00	1				GP							pCi/L
Nickel-63	1.6E+00												pCi/L
Nonvolatile beta	4.7E+02	1		■		GP	4.4E+02	1		■		GP	pCi/L
Plutonium-238	8.7E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<1.5E-02	1	UI			GP							pCi/L
Radium-226	2.7E+00	1				GP							pCi/L
Radium-228	2.6E+01	1	J	■		GP							pCi/L
Strontium-90	2.5E+02	1		■		GP							pCi/L
Technetium-99	<-1.2E+01	1	UI			GP							pCi/L
Thorium-228	<9.0E-02	1	UI			GP							pCi/L
Thorium-230	<1.4E-01	1	UI			GP							pCi/L
Thorium-232	<6.0E-03	1	UJI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	2.8E+02												pCi/L
Total radium	2.9E+01												pCi/L
Tritium	2.9E+02	1		■		GP	3.5E+02	1		■		GP	pCi/mL
Uranium-233/234	3.9E-01	1	UIV			GP							pCi/L
Uranium-235	<-9.0E-03	1	UI			GP							pCi/L
Uranium-238	2.9E-01	1	UIV			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB105C

<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>Screen Zone</u>
N71447.3 E57883.8	33.278237 °N 81.653166 °W	162.2-152.2 ft msl	249.5 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/06/98	04/16/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	220.2	222.4	ft msl
pH	5.5	5.8	pH
Sp. conductance	86	100	µS/cm
Water temperature	27.0	20.0	°C
Alkalinity as CaCO ₃	9	13	mg/L
Turbidity	1	1	NTU
Volumes purged	2.4	2.2	well vol
Sampling code			
Synchronous water level	222.2 (03/17/98)	221.2 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	6.9	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.6	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<2.1	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	5,200	3				GE	4,900	5				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	17	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	1.7	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Tnchlrofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB105C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.9E-02	1	UI			GP							pCi/L
Carbon-14	<-1.0E+01	1	UI			GP							pCi/L
Cobalt-60	<-1.3E-01	1	UI			GP							pCi/L
Curium-242	<2.4E-01	1	UI			GP							pCi/L
Curium-243/244	<1.6E-01	1	UJI			GP							pCi/L
Curium-245/246	<3.5E-02	1	UI			GP							pCi/L
Gross alpha	3.3E-01	1				GP	<9.6E-02	1	UI			GP	pCi/L
Iodine-129	<2.3E-01	1	UI			GP							pCi/L
Nickel-63	<-1.3E-01		UI										pCi/L
Nonvolatile beta	2.8E+00	1				GP	2.8E+00	1				GP	pCi/L
Plutonium-238	1.2E+00	1	UIV			GP							pCi/L
Plutonium-239/240	<-3.4E-02	1	UI			GP							pCi/L
Radium-226	2.4E-01	1	UIV			GP							pCi/L
Radium-228	2.1E+00	1	J			GP							pCi/L
Strontium-90	<-4.0E-02	1	UI			GP							pCi/L
Technetium-99	<-4.6E+00	1	UI			GP							pCi/L
Thorium-228	<1.9E-02	1	UI			GP							pCi/L
Thorium-230	<-6.0E-03	1	UI			GP							pCi/L
Thorium-232	<4.5E-02	1	UJI			GP							pCi/L
Total alpha emitters	2.1E+00												pCi/L
Total beta emitters	2.1E+00												pCi/L
Total radium	2.1E+00												pCi/L
Tritium	9.2E+01	1		■		GP	9.5E+01	1		■		GP	pCi/mL
Uranium-233/234	<9.3E-02	1	UI			GP							pCi/L
Uranium-235	<-9.0E-03	1	UI			GP							pCi/L
Uranium-238	<5.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE	01/06/98	04/02/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	226.4	227.8	ft msl
pH	3.8	4.2	pH
Sp. conductance	120	160	µS/cm
Water temperature	19.0	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	8	1	NTU
Volumes purged	2.5	5.1	well vol
Sampling code			
Synchronous water level	228.9 (03/17/98)	227.4 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	25	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	4.2	1	JE			GE							µg/L
Cobalt, total recoverable	4.4	1	JE	■		GE							µg/L
Copper, total recoverable	45	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	12	1	V			GE							µg/L
Mercury, total recoverable	6.7	1		■		GE	2.0	1				GE	µg/L
Nickel, total recoverable	7.3	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	12,000	10		■		GE	15,000	10	J	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	1.1	1	JE			GE							µg/L
Zinc, total recoverable	57	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	7.0	1	JE			GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB105D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-8.0E-03	1	UI			GP							pCi/L
Carbon-14	3.9E+01	1				GP							pCi/L
Cobalt-60	1.4E+01	1				GP							pCi/L
Curium-242	<-7.6E-02	1	UI			GP							pCi/L
Curium-243/244	<-1.3E-01	1	UJI			GP							pCi/L
Curium-245/246	<0.0E+00	1	UI			GP							pCi/L
Gross alpha	2.7E+01	1		■		GP	1.3E+01	1				GP	pCi/L
Iodine-129	9.5E+00	1				GP							pCi/L
Nickel-63	1.4E+01												pCi/L
Nonvolatile beta	9.9E+02	1		■		GP	7.1E+02	1		■		GP	pCi/L
Plutonium-238	6.9E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<6.0E-02	1	UI			GP							pCi/L
Radium-226	2.1E+00	1				GP							pCi/L
Radium-228	4.3E+01	1	J	■		GP							pCi/L
Strontium-90	4.3E+02	1		■		GP							pCi/L
Technetium-99	<-5.2E-01	1	UI			GP							pCi/L
Thorium-228	<1.5E-01	1	UI			GP							pCi/L
Thorium-230	<1.5E-02	1	UI			GP							pCi/L
Thorium-232	<-5.0E-03	1	UJI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	5.5E+02												pCi/L
Total radium	4.5E+01												pCi/L
Tritium	1.9E+03	1		■		GP	8.4E+02	1		■		GP	pCi/mL
Uranium-233/234	4.4E-01	1	UIV			GP							pCi/L
Uranium-235	<5.7E-02	1	UI			GP							pCi/L
Uranium-238	2.2E-01	1	UIV			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB106C

<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>Screen Zone</u>
N71720.9 E57651.5	33.278464 °N 81.654309 °W	168.7-158.7 ft msl	252.9 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/07/98	04/20/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	221.9	224.4	ft msl
pH	4.9	5.6	pH
Sp. conductance	79	76	µS/cm
Water temperature	27.0	20.0	°C
Alkalinity as CaCO ₃	4	4	mg/L
Turbidity	1	0	NTU
Volumes purged	2.6	3.6	well vol
Sampling code			
Synchronous water level	224.3 (03/17/98)	223.7 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	15	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.5	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	1.6	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	1.1	1	V			GE	0.27	1				GE	µg/L
Nickel, total recoverable	2.8	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	5,900	3				GE	6,100	5	V			GE	µg/L
Selenium, total recoverable	<3.2	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	12	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	5.1	1			■	GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB106C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<9.1E-02	1	UI			GP							pCi/L
Carbon-14	1.4E+01	1				GP							pCi/L
Cobalt-60	<5.5E-01	1	UI			GP							pCi/L
Curium-242	<7.0E-03	1	UI			GP							pCi/L
Curium-243/244	<5.8E-02	1	UI			GP							pCi/L
Curium-245/246	<2.1E-02	1	UI			GP							pCi/L
Gross alpha	9.5E-01	1				GP	4.9E-01	1				GP	pCi/L
Iodine-129	<3.6E-01	1	UI			GP							pCi/L
Nickel-63	4.8E+02	1		■		GP							pCi/L
Nonvolatile beta	3.3E+00	1				GP	1.8E+00	1				GP	pCi/L
Plutonium-238	1.3E+00	1	UIV			GP							pCi/L
Plutonium-239/240	<3.0E-01	1	UJI			GP							pCi/L
Radium-226	2.4E-01	1	UIV			GP							pCi/L
Radium-228	1.9E+00	1	J			GP							pCi/L
Strontium-90	<1.3E-01	1	UI			GP							pCi/L
Technetium-99	<-1.0E+01	1	UI			GP							pCi/L
Thorium-228	<-4.9E-02	1	UI			GP							pCi/L
Thorium-230	1.2E-01	1				GP							pCi/L
Thorium-232	<-1.2E-02	1	UI			GP							pCi/L
Total alpha emitters	1.6E+00			■									pCi/L
Total beta emitters	4.9E+02												pCi/L
Total radium	1.9E+00												pCi/L
Tritium	1.7E+02	1		■		GP	1.7E+02	1			■	GP	pCi/mL
Uranium-233/234	1.5E+00	1				GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<-1.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB106D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71727.8 E57644.8	33.278468 °N 81.654340 °W	230.7-210.7 ft msl	252.9 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/06/98	04/06/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	226.2	229.2	ft msl
pH	7.2	4.0	pH
Sp. conductance	56	64	µS/cm
Water temperature	17.0	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	0	NTU
Volumes purged	4.1	3.1	well vol
Sampling code			
Synchronous water level	229.2 (03/17/98)	228.2 (06/18/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	18	1				GE							µg/L
Cadmium, total recoverable	0.26	1	JE			GE							µg/L
Chromium, total recoverable	1.6	1	JE			GE							µg/L
Cobalt, total recoverable	1.5	1	JE			GE							µg/L
Copper, total recoverable	14	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<2.9	1	JEV			GE							µg/L
Mercury, total recoverable	0.28	1				GE	0.68	1				GE	µg/L
Nickel, total recoverable	15	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	5,900	3				GE	4,700	5				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	13	1				GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB106D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.6E-01	1	UI			GP							pCi/L
Carbon-14	<2.2E+00	1	UI			GP							pCi/L
Cobalt-60	<1.4E+00	1	UI			GP							pCi/L
Curium-242	<8.1E-02	1	UI			GP							pCi/L
Curium-243/244	<3.1E-02	1	UJI			GP							pCi/L
Curium-245/246	<1.0E-01	1	UI			GP							pCi/L
Gross alpha	7.7E+00	1				GP	3.8E+00	1				GP	pCi/L
Iodine-129	1.9E+00	1				GP							pCi/L
Nickel-63	<1.4E+00		UI										pCi/L
Nonvolatile beta	4.4E+02	1		■		GP	3.5E+02	1		■		GP	pCi/L
Plutonium-238	<2.0E-01	1	UI			GP							pCi/L
Plutonium-239/240	<1.3E-01	1	UI			GP							pCi/L
Radium-226	1.2E+00	1				GP							pCi/L
Radium-228	2.1E+01	1	J	■		GP							pCi/L
Strontium-90	2.4E+02	1		■		GP							pCi/L
Technetium-99	<4.9E-01	1	UI			GP							pCi/L
Thorium-228	<1.9E-02	1	UI			GP							pCi/L
Thorium-230	<1.3E-01	1	UI			GP							pCi/L
Thorium-232	<2.6E-02	1	UJI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	2.6E+02												pCi/L
Total radium	2.2E+01												pCi/L
Tritium	1.3E+02	1		■		GP	1.6E+02	1		■		GP	pCi/mL
Uranium-233/234	2.9E-01	1	UJV			GP							pCi/L
Uranium-235	<2.0E-02	1	UI			GP							pCi/L
Uranium-238	<2.9E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB107C

<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>Screen Zone</u>
N71698.5 E57432.0	33.278056 °N 81.654844 °W	169.3-159.3 ft msl	261.6 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE	01/23/98	04/21/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	220.0	221.7	ft msl
pH	5.8	5.1	pH
Sp. conductance	110	120	µS/cm
Water temperature	19.4	19.9	°C
Alkalinity as CaCO ₃	27	21	mg/L
Turbidity	0	0	NTU
Volumes purged	2.2	2.4	well vol
Sampling code			
Synchronous water level	225.8 (03/17/98)	220.9 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	2.2	1	JE			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	40	1				GE							µg/L
Cadmium, total recoverable	0.51	1	JE			WA							µg/L
Chromium, total recoverable	<2.6	1	V			WA							µg/L
Cobalt, total recoverable	<4.5	1				WA							µg/L
Copper, total recoverable	<2.5	1	V			WA							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	4.4	1	JE			WA							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	7,600	4	V			GE	7,500	5	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	13	1	JE			WA							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.72	1	JEV			GE							µg/L
Tetrachloroethylene	6.9	1	J2	■		WA							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB107C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-1.4E-02	1	UI			GP							pCi/L
Carbon-14	2.2E+02	1		■		TM							pCi/L
Cobalt-60	<-1.9E-01	1	UI			GP							pCi/L
Curium-242	<0.0E+00	1	UI			TM							pCi/L
Curium-243/244	<-1.0E-02	1	UI			GP							pCi/L
Curium-245/246	<-2.0E-02	1	UI			GP							pCi/L
Gross alpha	2.1E+00	1				TM	1.0E+00	1	J2			GP	pCi/L
Iodine-129	1.2E+01	1	R4			TM							pCi/L
Nickel-63	<-6.0E-02	1	UI			TM							pCi/L
Nonvolatile beta	1.6E+01	1	J			TM	7.7E+00	1				GP	pCi/L
Plutonium-238	8.7E-01	1				GP							pCi/L
Plutonium-239/240	<0.0E+00	1	UI			TM							pCi/L
Radium-226	2.9E-01	1				GP							pCi/L
Radium-228	2.2E+00	1				GP							pCi/L
Strontium-90	2.0E+00	1				TM							pCi/L
Technetium-99	<3.8E+00	1	UI			GP							pCi/L
Thorium-228	<-1.0E-02	1	UI			TM							pCi/L
Thorium-230	5.2E-01	1				GP							pCi/L
Thorium-232	<2.0E-02	1	UI			TM							pCi/L
Total alpha emitters	1.4E+00												pCi/L
Total beta emitters	2.2E+02			■									pCi/L
Total radium	2.5E+00												pCi/L
Tritium	4.4E+02	1		■		TM	4.0E+02	1		■		TM	pCi/mL
Uranium-233/234	<7.6E-02	1	UI			GP							pCi/L
Uranium-235	<5.0E-02	1	UI			TM							pCi/L
Uranium-238	<-1.0E-02	1	UI			TM							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB107D

<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>Screen Zone</u>
N71696.6 E57412.2	33.278019 °N 81.654892 °W	235.1-215.1 ft msl	262.3 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/06/98	04/02/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	225.3	227.2	ft msl
pH	6.8	4.8	pH
Sp. conductance	100	140	µS/cm
Water temperature	17.0	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	6.8	6.3	well vol
Sampling code			
Synchronous water level	227.9 (03/17/98)	226.7 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	30	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	1.0	1	JE			GE							µg/L
Copper, total recoverable	29	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	8.7	1	V			GE							µg/L
Mercury, total recoverable	3.2	1		■		GE	5.0	1		■		GE	µg/L
Nickel, total recoverable	2.6	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	16,000	10		■		GE	13,000	10	J	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	53	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB107D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-1.1E-01	1	UI			GP							pCi/L
Carbon-14	<2.2E+01	1	UI			GP							pCi/L
Cobalt-60	1.0E+01	1				GP							pCi/L
Curium-242	<3.0E-01	1	UI			GP							pCi/L
Curium-243/244	<-1.5E-01	1	UJI			GP							pCi/L
Curium-245/246	<7.7E-02	1	UI			GP							pCi/L
Gross alpha	1.2E+01	1				GP	6.2E+00	1				GP	pCi/L
Iodine-129	4.7E+00	1				GP							pCi/L
Nickel-63	1.0E+01												pCi/L
Nonvolatile beta	1.3E+03	1		■		GP	1.1E+03	1		■		GP	pCi/L
Plutonium-238	5.8E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<7.5E-02	1	UI			GP							pCi/L
Radium-226	2.1E+00	1				GP							pCi/L
Radium-228	4.1E+01	1	J	■		GP							pCi/L
Strontium-90	4.8E+02	1		■		GP							pCi/L
Technetium-99	4.7E+01	1				GP							pCi/L
Thorium-228	<4.9E-02	1	UI			GP							pCi/L
Thorium-230	<-5.0E-03	1	UI			GP							pCi/L
Thorium-232	<1.1E-02	1	UJI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	5.9E+02			■									pCi/L
Total radium	4.3E+01												pCi/L
Tritium	4.8E+02	1		■		GP	2.9E+02	1		■		GP	pCi/mL
Uranium-233/234	7.1E-01	1	UIV			GP							pCi/L
Uranium-235	<3.8E-02	1	UI			GP							pCi/L
Uranium-238	<6.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB108C

<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>Screen Zone</u>
N71688.7 E57155.5	33.277583 °N 81.655553 °W	196.0-186.0 ft msl	266.2 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE	01/12/98	04/15/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	218.6	220.8	ft msl
pH	6.8	6.6	pH
Sp. conductance	110	140	µS/cm
Water temperature	19.1	20.0	°C
Alkalinity as CaCO ₃	58	61	mg/L
Turbidity	4	1	NTU
Volumes purged	4.7	6.2	well vol
Sampling code			
Synchronous water level	220.8 (03/17/98)	220.1 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	13	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	3.0	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.7	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	2,300	3				GE	1,700	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.3	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	18	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.4	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB108C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-5.1E-02	1	UI			GP							pCi/L
Carbon-14	<6.9E+00	1	UI			GP							pCi/L
Cobalt-60	<5.0E-01	1	UI			GP							pCi/L
Curium-242	<-4.0E-03	1	UI			GP							pCi/L
Curium-243/244	<-4.4E-02	1	UI			GP							pCi/L
Curium-245/246	<3.2E-02	1	UI			GP							pCi/L
Gross alpha	<3.7E-01	1	UI			GP	<7.0E-01	1	UI			GP	pCi/L
Iodine-129	<8.4E-01	1	UI			GP							pCi/L
Nickel-63	<5.0E-01		UI										pCi/L
Nonvolatile beta	2.2E+00	1	J			GP	1.7E+00	1				GP	pCi/L
Plutonium-238	<-6.4E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-1.8E-02	1	UI			GP							pCi/L
Radium-226	6.4E-01	1				GP							pCi/L
Radium-228	1.9E+00	1				GP							pCi/L
Strontium-90	<-1.1E-01	1	UI			GP							pCi/L
Technetium-99	<4.4E-01	1	UI			GP							pCi/L
Thorium-228	<1.4E-01	1	UI			GP							pCi/L
Thorium-230	1.7E-01	1				GP							pCi/L
Thorium-232	<-2.0E-02	1	UI			GP							pCi/L
Total alpha emitters	1.7E-01												pCi/L
Total beta emitters	1.9E+00												pCi/L
Total radium	2.5E+00												pCi/L
Tritium	1.5E+02	1		■		GP	1.5E+02	1			■	GP	pCi/mL
Uranium-233/234	<1.7E-01	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<9.3E-02	1	UJI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71688.0 E57145.6	33.277566 °N 81.655577 °W	232.0-212.0 ft msl	266.3 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE 01/06/98 04/02/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	223.6	225.6	ft msl
pH	4.8	4.8	pH
Sp. conductance	54	100	µS/cm
Water temperature	17.0	20.0	°C
Alkalinity as CaCO ₃	0	3	mg/L
Turbidity	1	1	NTU
Volumes purged	6.0	4.7	well vol
Sampling code			
Synchronous water level	226.2 (03/17/98)	225.6 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	19	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	0.77	1	JE			GE							µg/L
Cobalt, total recoverable	3.5	1	JE	■		GE							µg/L
Copper, total recoverable	18	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	9.7	1	V			GE							µg/L
Mercury, total recoverable	2.9	1		■		GE	3.9	1		■		GE	µg/L
Nickel, total recoverable	7.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	6,400	6				GE	9,400	5	J			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	34	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB108D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.2E-01	1	UI			GP							pCi/L
Carbon-14	2.8E+01	1				GP							pCi/L
Cobalt-60	1.3E+01	1				GP							pCi/L
Curium-242	<6.0E-03	1	UI			GP							pCi/L
Curium-243/244	<3.7E-01	1	UJI			GP							pCi/L
Curium-245/246	<7.5E-02	1	UI			GP							pCi/L
Gross alpha	2.6E+01	1		■		GP	5.8E+00	1				GP	pCi/L
Iodine-129	2.9E+00	1				GP							pCi/L
Nickel-63	1.3E+01												pCi/L
Nonvolatile beta	1.2E+03	1		■		GP	4.7E+02	1		■		GP	pCi/L
Plutonium-238	9.3E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<1.5E-01	1	UI			GP							pCi/L
Radium-226	2.1E+00	1				GP							pCi/L
Radium-228	4.2E+01	1	J	■		GP							pCi/L
Strontium-90	6.5E+02	1		■		GP							pCi/L
Technetium-99	<6.6E+00	1	UI			GP							pCi/L
Thorium-228	<3.3E-02	1	UI			GP							pCi/L
Thorium-230	<2.1E-02	1	UI			GP							pCi/L
Thorium-232	<4.0E-03	1	UJI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	7.5E+02												pCi/L
Total radium	4.4E+01												pCi/L
Tritium	3.9E+02	1		■		GP	3.8E+02	1		■		GP	pCi/mL
Uranium-233/234	6.6E-01	1	UIV			GP							pCi/L
Uranium-235	<3.3E-02	1	UI			GP							pCi/L
Uranium-238	<9.1E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB109C

<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>Screen Zone</u>
N71684.8 E56895.6	33.277151 °N 81.656229 °W	178.4-168.4 ft msl	261.6 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/07/98	04/09/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	219.0	221.5	ft msl
pH	5.8	5.6	pH
Sp. conductance	49	40	µS/cm
Water temperature	27.5	20	°C
Alkalinity as CaCO ₃	12	6	mg/L
Turbidity	1	1.4	NTU
Volumes purged	2.7	0.63	well vol
Sampling code		XN	
Synchronous water level	221.1 (03/17/98)	220.5 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	5.1	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.8	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	2.6	1	JE			GE							µg/L
Cyanide	6.7	1	JE1		●	GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.13	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	1,800	1				GE	1,700	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<7.2	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	0.66	1	JE			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB109C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.6E-02	1	UI			GP							pCi/L
Carbon-14	<5.6E-01	1	UI			GP							pCi/L
Cobalt-60	<-4.9E-01	1	UI			GP							pCi/L
Curium-242	<1.6E-02	1	UI			GP							pCi/L
Curium-243/244	<1.1E-01	1	UI			GP							pCi/L
Curium-245/246	<2.0E-02	1	UI			GP							pCi/L
Gross alpha	<5.6E-01	1	UI			GP	<2.7E-01	1	UI			GP	pCi/L
Iodine-129	2.6E+00	1	R4			GP							pCi/L
Nickel-63	<-4.9E-01		UI										pCi/L
Nonvolatile beta	<8.7E-01	1	UI			GP	<3.4E-01	1	UI			GP	pCi/L
Plutonium-238	2.3E+00	1	V			GP							pCi/L
Plutonium-239/240	3.5E-01	1	J			GP							pCi/L
Radium-226	<2.3E-01	1	UI			GP							pCi/L
Radium-228	1.1E+00	1	J			GP							pCi/L
Strontium-90	<5.4E-01	1	UI			GP							pCi/L
Technetium-99	<-1.9E+01	1	UI			GP							pCi/L
Thorium-228	<8.7E-02	1	UI			GP							pCi/L
Thorium-230	<6.0E-02	1	UI			GP							pCi/L
Thorium-232	<-1.8E-02	1	UI			GP							pCi/L
Total alpha emitters	4.0E+00												pCi/L
Total beta emitters	1.1E+00												pCi/L
Total radium	1.1E+00												pCi/L
Tritium	4.4E+01	1			■	GP	4.0E+01	1			■	GP	pCi/mL
Uranium-233/234	1.3E+00	1				GP							pCi/L
Uranium-235	<2.0E-02	1	UI			GP							pCi/L
Uranium-238	<2.0E-03	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB109D

<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>Screen Zone</u>
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 (IIB2)

SAMPLE DATE	01/07/98	04/02/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.7	224.5	ft msl
pH	4.0	4.0	pH
Sp. conductance	42	52	µS/cm
Water temperature	19.0	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	0	NTU
Volumes purged	3.2	6.8	well vol
Sampling code			
Synchronous water level	225.0 (03/17/98)	224.4 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	1.9	1	JE			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	17	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	1.1	1	JE			GE							µg/L
Copper, total recoverable	34	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	8.9	1				GE							µg/L
Mercury, total recoverable	1.6	1	V			GE	0.54	1				GE	µg/L
Nickel, total recoverable	5.5	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	3,000	3				GE	3,000	2	J			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	28	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<11	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB109D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<7.0E-03	1	UI			GP							pCi/L
Carbon-14	1.4E+01	1				GP							pCi/L
Cobalt-60	5.2E+00	1				GP							pCi/L
Curium-242	<-1.6E-02	1	UI			GP							pCi/L
Curium-243/244	<-6.0E-02	1	UI			GP							pCi/L
Curium-245/246	<0.0E+00	1	UI			GP							pCi/L
Gross alpha	7.5E+00	1				GP	1.7E+00	1				GP	pCi/L
Iodine-129	3.1E+00	1	R4			GP							pCi/L
Nickel-63	5.2E+00												pCi/L
Nonvolatile beta	2.2E+02	1		■		GP	1.8E+02	1		■		GP	pCi/L
Plutonium-238	1.5E+00	1	UIV			GP							pCi/L
Plutonium-239/240	<1.9E-02	1	UJI			GP							pCi/L
Radium-226	1.0E+00	1				GP							pCi/L
Radium-228	8.4E+00	1	J	■		GP							pCi/L
Strontium-90	1.2E+02	1		■		GP							pCi/L
Technetium-99	<-9.2E+00	1	UI			GP							pCi/L
Thorium-228	<-2.1E-02	1	UI			GP							pCi/L
Thorium-230	<7.5E-02	1	UI			GP							pCi/L
Thorium-232	<9.0E-03	1	UI			GP							pCi/L
Total alpha emitters	1.9E+00												pCi/L
Total beta emitters	1.5E+02			■									pCi/L
Total radium	9.5E+00												pCi/L
Tritium	3.5E+01	1		■		GP	3.6E+01	1		■		GP	pCi/mL
Uranium-233/234	1.9E+00	1				GP							pCi/L
Uranium-235	<9.7E-02	1	UI			GP							pCi/L
Uranium-238	<-6.8E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB1)

SAMPLE DATE	01/07/98	04/09/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	219.2	220.4	ft msl
pH	5.1	5.0	pH
Sp. conductance	33	24	µS/cm
Water temperature	19.0	20.0	°C
Alkalinity as CaCO ₃	2	5	mg/L
Turbidity	3	2	NTU
Volumes purged	0.0	2.3	well vol
Sampling code	XN		
Synchronous water level	221.4 (03/17/98)	220.8 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	4.3	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.8	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	14	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	6.2	1				GE							µg/L
Mercury, total recoverable	<0.13	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	510	1				GE	440	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	16	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB110C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.1E-01	1	UI			GP							pCi/L
Carbon-14	<6.7E-01	1	UI			GP							pCi/L
Cobalt-60	<7.2E-01	1	UI			GP							pCi/L
Curium-242	<3.4E-02	1	UI			GP							pCi/L
Curium-243/244	<2.8E-02	1	UI			GP							pCi/L
Curium-245/246	<0.0E+00	1	UI			GP							pCi/L
Gross alpha	9.6E-01	1				GP	<4.4E-01	1	UI			GP	pCi/L
Iodine-129	<3.0E-01	1	UI			GP							pCi/L
Nickel-63	<7.2E-01		UI										pCi/L
Nonvolatile beta	<9.5E-01	1	UI			GP	<8.3E-01	1	UI			GP	pCi/L
Plutonium-238	2.7E+00	1	V			GP							pCi/L
Plutonium-239/240	5.4E-01	1	J			GP							pCi/L
Radium-226	<8.9E-02	1	UI			GP							pCi/L
Radium-228	1.7E+00	1	J			GP							pCi/L
Strontium-90	<-1.5E-02	1	UI			GP							pCi/L
Technetium-99	<-1.5E+01	1	UI			GP							pCi/L
Thorium-228	<9.0E-02	1	UI			GP							pCi/L
Thorium-230	1.3E-01	1				GP							pCi/L
Thorium-232	<1.8E-02	1	UI			GP							pCi/L
Total alpha emitters	5.0E+00												pCi/L
Total beta emitters	1.7E+00												pCi/L
Total radium	1.7E+00												pCi/L
Tritium	8.9E+00	1				GP	6.0E+00	1				GP	pCi/mL
Uranium-233/234	1.6E+00	1				GP							pCi/L
Uranium-235	<4.6E-02	1	UI			GP							pCi/L
Uranium-238	<6.2E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB110D

<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>Screen Zone</u>
N71785.2 E56672.1	33.277008 °N 81.657013 °W	231.4-211.4 ft msl	255.6 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE 01/07/98 04/09/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.0	224.4	ft msl
pH	4.2	4.8	pH
Sp. conductance	36	40	µS/cm
Water temperature	19.0	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	2.7	3.5	well vol
Sampling code			
Synchronous water level	224.1 (03/17/98)	223.6 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	4.2	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.1	1	JE			GE							µg/L
Cobalt, total recoverable	1.1	1	JE			GE							µg/L
Copper, total recoverable	2.2	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.13	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	2.7	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	1,700	1				GE	1,600	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	8.9	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB110D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<9.1E-02	1	UI			GP							pCi/L
Carbon-14	<1.4E+00	1	UI			GP							pCi/L
Cobalt-60	<2.7E+00	1	UI			GP							pCi/L
Curium-242	<4.0E-02	1	UI			GP							pCi/L
Curium-243/244	<2.4E-01	1	UI			GP							pCi/L
Curium-245/246	<3.0E-02	1	UI			GP							pCi/L
Gross alpha	1.5E+00	1				GP	<5.1E-01	1	UI			GP	pCi/L
Iodine-129	2.0E+00	1	R4			GP							pCi/L
Nickel-63	<2.7E+00		UI										pCi/L
Nonvolatile beta	5.5E+01	1		■		GP	6.1E+01	1	J	■		GP	pCi/L
Plutonium-238	1.4E+00	1	UIV			GP							pCi/L
Plutonium-239/240	<6.2E-01	1	UII			GP							pCi/L
Radium-226	6.3E-01	1				GP							pCi/L
Radium-228	3.5E+00	1	J			GP							pCi/L
Strontium-90	3.4E+01	1		■		GP							pCi/L
Technetium-99	<1.2E+01	1	UI			GP							pCi/L
Thorium-228	<4.5E-02	1	UI			GP							pCi/L
Thorium-230	<4.0E-02	1	UI			GP							pCi/L
Thorium-232	<4.3E-02	1	UI			GP							pCi/L
Total alpha emitters	1.1E+00												pCi/L
Total beta emitters	3.7E+01												pCi/L
Total radium	4.1E+00												pCi/L
Tritium	1.8E+01	1				GP	1.9E+01	1				GP	pCi/mL
Uranium-233/234	8.0E-01	1				GP							pCi/L
Uranium-235	<4.3E-02	1	UI			GP							pCi/L
Uranium-238	2.7E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB111C

<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>Screen Zone</u>
N71919.4 E56501.9	33.277027 °N 81.657722 °W	150.7-140.7 ft msl	256 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE 01/08/98 04/09/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	220.3	222.7	ft msl
pH	4.4	4.6	pH
Sp. conductance	90	120	µS/cm
Water temperature	19.2	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	3	0	NTU
Volumes purged	3.1	3.1	well vol
Sampling code			
Synchronous water level	222.6 (03/17/98)	221.8 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	9.8	1				GE							µg/L
Cadmium, total recoverable	0.42	1	JE			GE							µg/L
Chromium, total recoverable	1.8	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	3.0	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	2.8	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	11,000	20		■		GE	11,000	5	V	■		GE	µg/L
Selenium, total recoverable	<3.4	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	17	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.5	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB111C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.7E-02	1	UI			GP							pCi/L
Carbon-14	4.6E+01	1				GP							pCi/L
Cobalt-60	<3.1E-01	1	UI			GP							pCi/L
Curium-242	<6.0E-03	1	UI			GP							pCi/L
Curium-243/244	<2.1E-02	1	UI			GP							pCi/L
Curium-245/246	<5.0E-03	1	UI			GP							pCi/L
Gross alpha	8.3E-01	1				GP	1.5E+00	1				GP	pCi/L
Iodine-129	<8.3E-01	1	UI			GP							pCi/L
Nickel-63	<3.1E-01		UI										pCi/L
Nonvolatile beta	2.2E+01	1				GP	2.2E+01	1	J			GP	pCi/L
Plutonium-238	<6.0E-03	1	UI			GP							pCi/L
Plutonium-239/240	<5.4E-02	1	UI			GP							pCi/L
Radium-226	<3.8E-01	1	UI			GP							pCi/L
Radium-228	4.2E+00	1	UIV			GP							pCi/L
Strontium-90	<6.3E-01	1	UI			GP							pCi/L
Technetium-99	4.1E+01	1				GP							pCi/L
Thorium-228	<4.4E-01	1	UI			GP							pCi/L
Thorium-230	<2.8E-01	1	UI			GP							pCi/L
Thorium-232	<-1.5E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	8.7E+01			■									pCi/L
Tritium	1.3E+03	1		■		GP	1.2E+03	1			■	GP	pCi/mL
Uranium-233/234	<1.0E-01	1	UI			GP							pCi/L
Uranium-235	<-1.0E-02	1	UI			GP							pCi/L
Uranium-238	<-1.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71926.2 E56494.5	33.277030 °N 81.657754 °W	195.7-185.7 ft msl	256 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE 01/26/98 04/27/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.3		ft msl
pH	5.4		pH
Sp. conductance	300		µS/cm
Water temperature	18.0		°C
Alkalinity as CaCO ₃	3		mg/L
Turbidity	0		NTU
Volumes purged	3.6		well vol
Sampling code		P	
Synchronous water level	223.7 (03/17/98)	223.1 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	1.9	1	JE			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	18	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.3	1	JE			GE							µg/L
Cobalt, total recoverable	0.82	1	JE			GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	0.71	1				GE							µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	25,000	20	V	■		GE							µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.8	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.43	1	JE			GE							µg/L
Zinc, total recoverable	<8.8	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.2	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	0.29	1	JE			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB111D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<9.8E-02	1	UI			GP							pCi/L
Carbon-14	2.3E+01	1				GP							pCi/L
Cobalt-60	<1.1E+00	1	UI			GP							pCi/L
Curium-242	<2.9E-02	1	UI			GP							pCi/L
Curium-243/244	<4.6E-02	1	UI			GP							pCi/L
Curium-245/246	<4.2E-02	1	UI			GP							pCi/L
Gross alpha	1.6E+00	1				GP							pCi/L
Iodine-129	4.6E+00	1	J			GP							pCi/L
Nickel-63	<1.1E+00		UI										pCi/L
Nonvolatile beta	2.5E+01	1				GP							pCi/L
Plutonium-238	4.3E-01	1				GP							pCi/L
Plutonium-239/240	<-3.5E-02	1	UI			GP							pCi/L
Radium-226	9.3E-01	1				GP							pCi/L
Radium-228	1.9E+00	1				GP							pCi/L
Strontium-90	<1.2E+00	1	UI			GP							pCi/L
Technetium-99	1.0E+02	1		■		GP							pCi/L
Thorium-228	<1.8E-01	1	UI			GP							pCi/L
Thorium-230	<9.6E-02	1	UI			GP							pCi/L
Thorium-232	<-4.0E-03	1	UI			GP							pCi/L
Total alpha emitters	4.3E-01												pCi/L
Total beta emitters	1.3E+02			■									pCi/L
Total radium	2.8E+00												pCi/L
Tritium	3.5E+03	1		■		GP							pCi/mL
Uranium-233/234	<4.2E-02	1	UI			GP							pCi/L
Uranium-235	<-2.5E-02	1	UI			GP							pCi/L
Uranium-238	<8.8E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB111E

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71932.8 E56487.2	33.277033 °N 81.657786 °W	231.7-211.7 ft msl	255.9 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE 01/07/98 04/02/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	221.8	223.3	ft msl
pH	4.2	4.0	pH
Sp. conductance	42	44	µS/cm
Water temperature	17.0	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	0	NTU
Volumes purged	6.0	11	well vol
Sampling code			
Synchronous water level	223.6 (03/17/98)	223.3 (06/18/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	4.8	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	0.82	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	9.4	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	12	1				GE							µg/L
Mercury, total recoverable	<0.12	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	2,400	3				GE	2,500	2	J			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	9.1	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB111E (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.0E-03	1	UI			GP							pCi/L
Carbon-14	1.0E+01	1	R4			GP							pCi/L
Cobalt-60	5.9E+00	1				GP							pCi/L
Curium-242	<1.8E-02	1	UI			GP							pCi/L
Curium-243/244	<1.4E-01	1	UI			GP							pCi/L
Curium-245/246	<4.1E-02	1	UI			GP							pCi/L
Gross alpha	3.3E+00	1				GP	1.2E+00	1				GP	pCi/L
Iodine-129	<5.5E-01	1	UI			GP							pCi/L
Nickel-63	5.9E+00												pCi/L
Nonvolatile beta	1.1E+02	1		■		GP	7.2E+01	1		■		GP	pCi/L
Plutonium-238	1.7E+00	1	UIV			GP							pCi/L
Plutonium-239/240	<1.0E-01	1	UII			GP							pCi/L
Radium-226	6.5E-01	1				GP							pCi/L
Radium-228	4.7E+00	1	J			GP							pCi/L
Strontium-90	6.6E+01	1		■		GP							pCi/L
Technetium-99	<-1.7E+01	1	UI			GP							pCi/L
Thorium-228	<1.5E-02	1	UI			GP							pCi/L
Thorium-230	<3.1E-02	1	UI			GP							pCi/L
Thorium-232	<3.9E-02	1	UI			GP							pCi/L
Total alpha emitters	1.1E+00												pCi/L
Total beta emitters	8.2E+01			■									pCi/L
Total radium	5.4E+00												pCi/L
Tritium	7.6E+02	1		■		GP	1.3E+03	1		■		GP	pCi/mL
Uranium-233/234	1.1E+00	1				GP							pCi/L
Uranium-235	<6.5E-02	1	UI			GP							pCi/L
Uranium-238	<-6.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB112C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72156.4 E56417.4	33.277413 °N 81.658404 °W	150.6-140.6 ft msl	254.9 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/07/98	04/13/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	221.4	224.0	ft msl
pH	5.6	6.4	pH
Sp. conductance	83	93	µS/cm
Water temperature	22.0	16.3	°C
Alkalinity as CaCO ₃	9	19	mg/L
Turbidity	3	1	NTU
Volumes purged	2.5	2.5	well vol
Sampling code			
Synchronous water level	224.0 (03/17/98)	223.1 (06/18/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	13	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.2	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1	J1			GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.14	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	3.0	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	6,600	3				GE	5,900	3	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	22	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB112C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<-8.0E-02	1	UI			GP							pCi/L
Carbon-14	4.3E+01	1				GP							pCi/L
Cobalt-60	<3.6E-01	1	UI			GP							pCi/L
Curium-242	<-1.8E-02	1	UI			GP							pCi/L
Curium-243/244	<-1.0E-01	1	UI			GP							pCi/L
Curium-245/246	<5.0E-02	1	UI			GP							pCi/L
Gross alpha	<2.6E-01	1	UI			GP	1.0E+00	1				GP	pCi/L
Iodine-129	<8.4E-01	1	UI			GP							pCi/L
Nickel-63	<3.6E-01		UI										pCi/L
Nonvolatile beta	1.0E+01	1				GP	1.1E+01	1	J			GP	pCi/L
Plutonium-238	1.5E+00	1	UIV			GP							pCi/L
Plutonium-239/240	<2.0E-01	1	UI			GP							pCi/L
Radium-226	<1.9E-01	1	UI			GP							pCi/L
Radium-228	2.2E+00	1	J			GP							pCi/L
Strontium-90	<1.2E+00	1	UI			GP							pCi/L
Technetium-99	<9.9E+00	1	UI			GP							pCi/L
Thorium-228	<-5.9E-02	1	UI			GP							pCi/L
Thorium-230	<6.8E-02	1	UI			GP							pCi/L
Thorium-232	<-6.0E-03	1	UI			GP							pCi/L
Total alpha emitters	1.4E+00												pCi/L
Total beta emitters	4.6E+01												pCi/L
Total radium	2.2E+00												pCi/L
Tritium	5.3E+02	1		■		GP	6.1E+02	1		■		GP	pCi/mL
Uranium-233/234	1.2E+00	1				GP							pCi/L
Uranium-235	<1.1E-01	1	UI			GP							pCi/L
Uranium-238	1.9E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N72161.6 E56408.1	33.277410 °N 81.658439 °W	198.3-188.3 ft msl	255.1 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE 01/08/98 04/13/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.4	224.7	ft msl
pH	5.0	5.5	pH
Sp. conductance	60	63	µS/cm
Water temperature	19.5	18.2	°C
Alkalinity as CaCO ₃	2	5	mg/L
Turbidity	0	0	NTU
Volumes purged	2.2	3.0	well vol
Sampling code			
Synchronous water level	224.5 (03/17/98)	224.1 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	1.1	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.3	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	1.4	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<3.1	1	JEV			GE							µg/L
Mercury, total recoverable	0.33	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	5,900	3				GE	4,300	3	V			GE	µg/L
Selenium, total recoverable	<2.8	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.52	1	JE			GE							µg/L
Zinc, total recoverable	<2.4	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.75	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB112D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<5.0E-02	1	UI			GP							pCi/L
Carbon-14	2.4E+01	1				GP							pCi/L
Cobalt-60	<4.0E-01	1	UI			GP							pCi/L
Curium-242	<1.6E-02	1	UI			GP							pCi/L
Curium-243/244	<4.2E-02	1	UI			GP							pCi/L
Curium-245/246	<1.4E-02	1	UI			GP							pCi/L
Gross alpha	4.9E-01	1				GP	<4.1E-01	1	UI			GP	pCi/L
Iodine-129	4.4E+00	1				GP							pCi/L
Nickel-63	<4.0E-01		UI										pCi/L
Nonvolatile beta	4.8E+00	1				GP	4.5E+00	1	J			GP	pCi/L
Plutonium-238	<9.0E-03	1	UI			GP							pCi/L
Plutonium-239/240	<1.2E-02	1	UI			GP							pCi/L
Radium-226	<4.0E-01	1	UI			GP							pCi/L
Radium-228	2.4E+00	1	UIV			GP							pCi/L
Strontium-90	<1.1E+00	1	UI			GP							pCi/L
Technetium-99	<4.0E+00	1	UI			GP							pCi/L
Thorium-228	<8.4E-02	1	UI			GP							pCi/L
Thorium-230	<5.0E-03	1	UI			GP							pCi/L
Thorium-232	<5.0E-03	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	2.8E+01												pCi/L
Tritium	9.0E+02	1		■		GP	5.9E+02	1		■		GP	pCi/mL
Uranium-233/234	<8.5E-02	1	UI			GP							pCi/L
Uranium-235	<4.0E-03	1	UI			GP							pCi/L
Uranium-238	<4.0E-03	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE 01/07/98 04/13/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.3	224.6	ft msl
pH	4.8	7.0	pH
Sp. conductance	68	67	µS/cm
Water temperature	18.0	19.2	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	6	3	NTU
Volumes purged	0.14	0.0	well vol
Sampling code	XN	XN	
Synchronous water level	224.5 (03/17/98)	224.0 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	15	1				GE							µg/L
Cadmium, total recoverable	0.22	1	JE			GE							µg/L
Chromium, total recoverable	1.2	1	JE			GE							µg/L
Cobalt, total recoverable	3.5	1	JE	■		GE							µg/L
Copper, total recoverable	19	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	4.4	1	JE			GE							µg/L
Mercury, total recoverable	<0.14	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	4.6	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	4,100	3				GE	3,300	3	V			GE	µg/L
Selenium, total recoverable	<2.2	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.78	1	JE			GE							µg/L
Zinc, total recoverable	22	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB112E (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<6.2E-02	1	UI			GP							pCi/L
Carbon-14	1.4E+01	1				GP							pCi/L
Cobalt-60	4.4E+00	1				GP							pCi/L
Curium-242	<-8.4E-02	1	UI			GP							pCi/L
Curium-243/244	<-3.0E-03	1	UI			GP							pCi/L
Curium-245/246	<2.0E-02	1	UI			GP							pCi/L
Gross alpha	2.0E+00	1				GP	1.8E+00	1				GP	pCi/L
Iodine-129	1.5E+00	1	R4			GP							pCi/L
Nickel-63	4.4E+00												pCi/L
Nonvolatile beta	1.4E+02	1		■		GP	8.8E+01	1	J	■		GP	pCi/L
Plutonium-238	2.1E+00	1	V			GP							pCi/L
Plutonium-239/240	8.6E-01	1	J			GP							pCi/L
Radium-226	1.8E+00	1				GP							pCi/L
Radium-228	4.9E+00	1	J			GP							pCi/L
Strontium-90	7.0E+01	1		■		GP							pCi/L
Technetium-99	<-1.2E+01	1	UI			GP							pCi/L
Thorium-228	<3.0E-03	1	UI			GP							pCi/L
Thorium-230	4.7E-02	1	UIV			GP							pCi/L
Thorium-232	<3.0E-03	1	UI			GP							pCi/L
Total alpha emitters	4.1E+00												pCi/L
Total beta emitters	9.8E+01			■									pCi/L
Total radium	6.6E+00												pCi/L
Tritium	6.3E+01	1		■		GP	4.6E+01	1		■		GP	pCi/mL
Uranium-233/234	1.1E+00	1				GP							pCi/L
Uranium-235	<1.2E-01	1	UI			GP							pCi/L
Uranium-238	<-1.9E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N72312.3 E56160.4	33.277339 °N 81.659384 °W	161.7-151.7 ft msl	261 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE 01/08/98 04/21/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.0	224.7	ft msl
pH	4.3	5.2	pH
Sp. conductance	80	100	µS/cm
Water temperature	20.0	19.3	°C
Alkalinity as CaCO ₃	0	1	mg/L
Turbidity	0	0	NTU
Volumes purged	3.1	2.8	well vol
Sampling code			
Synchronous water level	224.63 (03/17/98)	223.4 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	27	1				GE							µg/L
Cadmium, total recoverable	0.37	1	JE			GE							µg/L
Chromium, total recoverable	0.91	1	JE			GE							µg/L
Cobalt, total recoverable	1.2	1	JE			GE							µg/L
Copper, total recoverable	1.8	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	0.34	1				GE	0.13	1	JE			GE	µg/L
Nickel, total recoverable	2.8	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	12,000	20		■		GE	13,000	50		■		WA	µg/L
Selenium, total recoverable	<1.7	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	21	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.95	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB113C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.1E-02	1	UI			GP							pCi/L
Carbon-14	8.4E+01	1		■		GP							pCi/L
Cobalt-60	<1.3E+00	1	UI			GP							pCi/L
Curium-242	<6.0E-03	1	UI			GP							pCi/L
Curium-243/244	<1.3E-02	1	UI			GP							pCi/L
Curium-245/246	<2.0E-03	1	UI			GP							pCi/L
Gross alpha	2.4E+00	1				GP	2.6E+00	1				TM	pCi/L
Iodine-129	<1.5E-01	1	UI			GP							pCi/L
Nickel-63	<1.3E+00		UI										pCi/L
Nonvolatile beta	2.7E+01	1				GP	2.8E+01	1				TM	pCi/L
Plutonium-238	<1.6E-01	1	UI			GP							pCi/L
Plutonium-239/240	<5.5E-02	1	UI			GP							pCi/L
Radium-226	7.5E-01	1				GP							pCi/L
Radium-228	2.7E+00	1	UIV			GP							pCi/L
Strontium-90	<5.0E-01	1	UI			GP							pCi/L
Technetium-99	4.9E+01	1				GP							pCi/L
Thorium-228	<4.5E-02	1	UI			GP							pCi/L
Thorium-230	4.5E-01	1				GP							pCi/L
Thorium-232	<-2.8E-02	1	UI			GP							pCi/L
Total alpha emitters	4.5E-01												pCi/L
Total beta emitters	1.3E+02			■									pCi/L
Total radium	7.5E-01												pCi/L
Tritium	1.2E+03	1		■		GP	1.4E+03	1		■		TM	pCi/mL
Uranium-233/234	<1.9E-01	1	UI			GP							pCi/L
Uranium-235	<-2.2E-02	1	UI			GP							pCi/L
Uranium-238	<4.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB113D

<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>Screen Zone</u>
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 (IIB2)

SAMPLE DATE 01/07/98 04/07/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.5	224.9	ft msl
pH	3.4	3.8	pH
Sp. conductance	240	320	µS/cm
Water temperature	19.0	19.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	6	0	NTU
Volumes purged	3.1	7.0	well vol
Sampling code			
Synchronous water level	224.8 (03/17/98)	223.7 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	51	1				GE							µg/L
Cadmium, total recoverable	0.48	1	JE			GE							µg/L
Chromium, total recoverable	2.2	1	JE			GE							µg/L
Cobalt, total recoverable	4.1	1	JE	■		GE							µg/L
Copper, total recoverable	140	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	49	1		■		GE							µg/L
Mercury, total recoverable	0.34	1				GE	0.44	1				GE	µg/L
Nickel, total recoverable	12	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	26,000	20	V	■		GE	30,000	20	V	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	0.83	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	96	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB113D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	3.5E-01	1				GP							pCi/L
Carbon-14	2.4E+02	1		■		GP							pCi/L
Cobalt-60	3.6E+01	1				GP							pCi/L
Curium-242	<1.3E-02	1	UI			GP							pCi/L
Curium-243/244	2.3E+00	1				GP							pCi/L
Curium-245/246	<4.2E-02	1	UI			GP							pCi/L
Gross alpha	2.7E+01	1		■		GP	3.3E+01	1		■		GP	pCi/L
Iodine-129	4.9E+01	1				GP							pCi/L
Nickel-63	3.2E+02	1		■		GP							pCi/L
Nonvolatile beta	8.0E+02	1		■		GP	1.4E+03	1	V	■		GP	pCi/L
Plutonium-238	<1.8E-01	1	UI			GP							pCi/L
Plutonium-239/240	<7.1E-02	1	UI			GP							pCi/L
Radium-226	3.3E+00	1				GP							pCi/L
Radium-228	9.6E+00	1		■		GP							pCi/L
Strontium-90	3.6E+02	1		■		GP							pCi/L
Technetium-99	5.1E+01	1		■		GP							pCi/L
Thorium-228	<5.0E-02	1	UI			GP							pCi/L
Thorium-230	<8.2E-02	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	5.7E+00												pCi/L
Total beta emitters	1.1E+03			■									pCi/L
Total radium	1.3E+01												pCi/L
Tritium	2.3E+03	1		■		GP	3.6E+03	1		■		GP	pCi/mL
Uranium-233/234	1.9E+00	1				GP							pCi/L
Uranium-235	<9.5E-02	1	UI			GP							pCi/L
Uranium-238	1.1E+00	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N72464.6 E56107.0	33.277589 °N 81.659820 °W	195.6-185.6 ft msl	263.8 ft msl	4" PVC	V	Barnwell (IIB1)

SAMPLE DATE	01/28/98	04/21/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	224.2	225.9	ft msl
pH	4.8	4.4	pH
Sp. conductance	200	200	µS/cm
Water temperature	18.0	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0	0	NTU
Volumes purged	3.9	2.8	well vol
Sampling code			
Synchronous water level	225.6 (03/17/98)	224.4 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	29	1				GE							µg/L
Cadmium, total recoverable	0.70	1	JE			GE							µg/L
Chromium, total recoverable	1.2	1	JE			GE							µg/L
Cobalt, total recoverable	2.7	1	JE			GE							µg/L
Copper, total recoverable	13	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	4.7	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	24,000	20	V	■		GE	24,000	25	V	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	39	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J1		●	GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<3.0	1	JV1		●	GE							µg/L
Tetrachloroethylene	<1.0	1	J1		●	GE							µg/L
Trichloroethylene	<1.0	1	J1		●	GE							µg/L
Trichlorofluoromethane	<1.0	1	J1		●	GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB114C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.1E-01	1	UI			GP							pCi/L
Carbon-14	6.0E+01	1		■		GP							pCi/L
Cobalt-60	<7.6E-01	1	UI			GP							pCi/L
Curium-242	<1.1E-01	1	UI			GP							pCi/L
Curium-243/244	<1.3E-01	1	UI			GP							pCi/L
Curium-245/246	<2.8E-02	1	UI			GP							pCi/L
Gross alpha	4.6E+00	1				GP	5.4E+00	1	UIV			GP	pCi/L
Iodine-129	3.0E+00	1	R4			GP							pCi/L
Nickel-63	<7.6E-01		UI										pCi/L
Nonvolatile beta	4.0E+01	1				GP	3.9E+01	1	UIV			GP	pCi/L
Plutonium-238	<3.4E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-6.0E-02	1	UI			GP							pCi/L
Radium-226	9.5E-01	1	UIV			GP							pCi/L
Radium-228	2.5E+00	1	UIV			GP							pCi/L
Strontium-90	<3.2E-01	1	UI			GP							pCi/L
Technetium-99	1.0E+02	1		■		GP							pCi/L
Thorium-228	<9.5E-02	1	UI			GP							pCi/L
Thorium-230	<2.2E-01	1	UI			GP							pCi/L
Thorium-232	<-3.0E-03	1	UI			GP							pCi/L
Total alpha emitters				■									
Total beta emitters	1.6E+02												pCi/L
Tritium	3.5E+03	1		■		GP	3.1E+03	1	J	■		GP	pCi/mL
Uranium-233/234	<3.7E-02	1	UI			GP							pCi/L
Uranium-235	<4.1E-02	1	UI			GP							pCi/L
Uranium-238	<4.1E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE 01/07/98 04/07/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	223.2	225.7	ft msl
pH	3.8	4.0	pH
Sp. conductance	360	280	µS/cm
Water temperature	18.0	19.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	6.2	3.3	well vol
Sampling code			
Synchronous water level	225.7 (03/17/98)	224.4 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	50	1				GE							µg/L
Cadmium, total recoverable	0.44	1	JE			GE							µg/L
Chromium, total recoverable	1.8	1	JE			GE							µg/L
Cobalt, total recoverable	15	1		■		GE							µg/L
Copper, total recoverable	35	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	4.5	1	JE			GE							µg/L
Mercury, total recoverable	0.22	1				GE	0.35	1				GE	µg/L
Nickel, total recoverable	16	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	38,000	20	V	■		GE	28,000	20	V	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	59	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB114D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.4E-01	1	UI			GP							pCi/L
Carbon-14	1.2E+02	1		■		GP							pCi/L
Cobalt-60	5.3E+01	1		■		GP							pCi/L
Curium-242	<5.8E-02	1	UI			GP							pCi/L
Curium-243/244	2.9E-01	1				GP							pCi/L
Curium-245/246	<8.1E-02	1	UI			GP							pCi/L
Gross alpha	2.7E+01	1		■		GP	3.7E+01	1		■		GP	pCi/L
Iodine-129	9.8E+01	1		■		GP							pCi/L
Nickel-63	2.8E+02	1		■		GP							pCi/L
Nonvolatile beta	1.5E+03	1		■		GP	2.1E+03	1	V	■		GP	pCi/L
Plutonium-238	<-1.0E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-7.5E-04	1	UI			GP							pCi/L
Radium-226	1.0E+01	1		■		GP							pCi/L
Radium-228	5.1E+00	1		■		GP							pCi/L
Strontium-90	6.4E+02	1		■		GP							pCi/L
Technetium-99	1.3E+02	1		■		GP							pCi/L
Thorium-228	<1.8E-01	1	UI			GP							pCi/L
Thorium-230	<2.1E-02	1	UI			GP							pCi/L
Thorium-232	<4.0E-02	1	UI			GP							pCi/L
Total alpha emitters	2.6E+00												pCi/L
Total beta emitters	1.3E+03			■									pCi/L
Total radium	1.5E+01												pCi/L
Tritium	6.9E+03	1		■		GP	4.8E+03	1		■		GP	pCi/mL
Uranium-233/234	1.5E+00	1				GP							pCi/L
Uranium-235	1.2E-01	1				GP							pCi/L
Uranium-238	7.2E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N72653.2 E56043.2	33.277902 °N 81.660355 °W	192.8-182.8 ft msl	269.3 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/28/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	224.9	239.3	ft msl
pH	6.0	6.0	pH
Sp. conductance	160	200	µS/cm
Water temperature	19.0	20.0	°C
Alkalinity as CaCO ₃	21	8	mg/L
Turbidity	0	0	NTU
Volumes purged	4.9	3.2	well vol
Sampling code			
Synchronous water level	226.87 (03/17/98)	225.4 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	22	1				GE							µg/L
Cadmium, total recoverable	0.71	1	JE			GE							µg/L
Chromium, total recoverable	0.79	1	JE			GE							µg/L
Cobalt, total recoverable	2.1	1	JE			GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1	J			GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	18,000	20	V	■		GE	19,000	10		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.62	1	JE			GE							µg/L
Zinc, total recoverable	10	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<4.0	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB115C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	3.6E-01	1	UIV			GP							pCi/L
Carbon-14	6.8E+01	1		■		GP							pCi/L
Cobalt-60	<-2.0E-01	1	UI			GP							pCi/L
Curium-242	<-1.0E-02	1	UI			GP							pCi/L
Curium-243/244	<3.0E-01	1	UI			GP							pCi/L
Curium-245/246	<6.9E-02	1	UI			GP							pCi/L
Gross alpha	8.1E+00	1				GP	5.1E+00	1	UIV			GP	pCi/L
Iodine-129	7.1E+00	1				GP							pCi/L
Nickel-63	<-2.0E-01		UI										pCi/L
Nonvolatile beta	4.3E+01	1				GP	2.2E+01	1	UIV			GP	pCi/L
Plutonium-238	6.3E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<-5.1E-02	1	UI			GP							pCi/L
Radium-226	2.7E+00	1	UIV			GP							pCi/L
Radium-228	2.8E+00	1	UIV			GP							pCi/L
Strontium-90	8.7E+00	1		■		GP							pCi/L
Technetium-99	6.1E+01	1		■		GP							pCi/L
Thorium-228	<2.9E-01	1	UI			GP							pCi/L
Thorium-230	3.5E-01	1	UIV			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	1.4E+02			■									pCi/L
Tritium	3.3E+03	1		■		GP	3.1E+03	1		■		GP	pCi/mL
Uranium-233/234	<1.5E-01	1	UI			GP							pCi/L
Uranium-235	<3.5E-02	1	UI			GP							pCi/L
Uranium-238	<2.1E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB115D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72662.3 E56039.8	33.277916 °N 81.660381 °W	233.9-213.9 ft msl	269.1 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE 01/07/98 04/03/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	223.8	226.5	ft msl
pH	5.6	3.8	pH
Sp. conductance	300	160	µS/cm
Water temperature	18.0	19	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	22	0.5	NTU
Volumes purged	0.0	0.48	well vol
Sampling code	XN	XN	
Synchronous water level	226.7 (03/17/98)	225.4 (06/18/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<1.7	1	JEV			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	180	1				GE							µg/L
Cadmium, total recoverable	4.7	1	JE			GE							µg/L
Chromium, total recoverable	4.6	1	JE			GE							µg/L
Cobalt, total recoverable	39	1		■		GE							µg/L
Copper, total recoverable	11	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	23	1		■		GE							µg/L
Mercury, total recoverable	0.11	1	JE			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	63	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	30,000	20	V	■		GE	24,000	10		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	0.83	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	1.6	1	JE			GE							µg/L
Zinc, total recoverable	100	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<12	1				GE							µg/L
Dichloromethane	<1.7	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB115D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.3E-01	1	UI			GP							pCi/L
Carbon-14	6.2E+01	1		■		GP							pCi/L
Cobalt-60	8.1E+01	1		■		GP							pCi/L
Curium-242	<5.9E-02	1	UI			GP							pCi/L
Curium-243/244	<1.3E-01	1	UI			GP							pCi/L
Curium-245/246	<8.0E-03	1	UI			GP							pCi/L
Gross alpha	2.8E+01	1		■		GP	2.4E+01	1		■		GP	pCi/L
Iodine-129	2.8E+01	1				GP							pCi/L
Nickel-63	3.6E+02	1		■		GP							pCi/L
Nonvolatile beta	2.8E+03	1		■		GP	2.6E+03	1	V	■		GP	pCi/L
Plutonium-238	<1.4E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-2.7E-02	1	UI			GP							pCi/L
Radium-226	1.0E+01	1		■		GP							pCi/L
Radium-228	1.1E+01	1		■		GP							pCi/L
Strontium-90	1.1E+03	1		■		GP							pCi/L
Technetium-99	4.4E+01	1				GP							pCi/L
Thorium-228	<-6.6E-02	1	UI			GP							pCi/L
Thorium-230	<1.0E-01	1	UI			GP							pCi/L
Thorium-232	<-8.0E-03	1	UI			GP							pCi/L
Total alpha emitters	3.1E+00												pCi/L
Total beta emitters	1.6E+03			■									pCi/L
Total radium	2.2E+01												pCi/L
Tritium	3.5E+03	1		■		GP	2.6E+03	1		■		GP	pCi/mL
Uranium-233/234	1.8E+00	1				GP							pCi/L
Uranium-235	<4.5E-02	1	UI			GP							pCi/L
Uranium-238	1.3E+00	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB116C

<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>Screen Zone</u>
N72888.1 E55989.1	33.278333 °N 81.660953 °W	190.5-180.5 ft msl	257.5 ft msl	4" PVC	V	Bamwell (IIB1)

SAMPLE DATE 01/08/98 04/15/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	225.0	228.4	ft msl
pH	4.7	5.2	pH
Sp. conductance	70	100	µS/cm
Water temperature	19.2	19.0	°C
Alkalinity as CaCO ₃	2	2	mg/L
Turbidity	0	0	NTU
Volumes purged	2.3	2.4	well vol
Sampling code			
Synchronous water level	228.4 (03/17/98)	226.5 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	6.8	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	4.0	1	JE	■		GE							µg/L
Copper, total recoverable	3.9	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<0.92	1	JEV			GE							µg/L
Mercury, total recoverable	0.53	1				GE	0.36	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	8,800	20				GE	10,000	6				GE	µg/L
Selenium, total recoverable	<2.3	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<3.7	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.6	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB116C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.0E-01	1	UI			GP							pCi/L
Carbon-14	7.5E+01	1		■		GP							pCi/L
Cobalt-60	<-1.1E-01	1	UI			GP							pCi/L
Curium-242	<-4.0E-03	1	UI			GP							pCi/L
Curium-243/244	<6.4E-02	1	UI			GP							pCi/L
Curium-245/246	<1.5E-02	1	UI			GP							pCi/L
Gross alpha	1.5E+00	1				GP	<1.0E+00	1	UI			GP	pCi/L
Iodine-129	5.0E+00	1	R4			GP							pCi/L
Nickel-63	<-1.1E-01		UI										pCi/L
Nonvolatile beta	6.2E+00	1				GP	8.7E+00	1				GP	pCi/L
Plutonium-238	2.7E-01	1	UIV			GP							pCi/L
Plutonium-239/240	1.2E-01	1	UIV			GP							pCi/L
Radium-226	<1.6E-01	1	UI			GP							pCi/L
Radium-228	3.2E+00	1	UIV			GP							pCi/L
Strontium-90	<6.5E-01	1	UI			GP							pCi/L
Technetium-99	<1.3E+01	1	UI			GP							pCi/L
Thorium-228	<-1.1E-01	1	UI			GP							pCi/L
Thorium-230	<1.7E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	7.5E+01			■									pCi/L
Tritium	1.3E+03	1		■		GP	1.3E+03	1		■		GP	pCi/mL
Uranium-233/234	<2.3E-02	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<0.0E+00	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB116D

<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>Screen Zone</u>
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 (IIB2)

SAMPLE DATE 01/06/98 04/03/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	225.0	228.3	ft msl
pH	3.8	4.2	pH
Sp. conductance	100	90	µS/cm
Water temperature	19.0	20	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0	1.1	NTU
Volumes purged	2.9	1.8	well vol
Sampling code		XN	
Synchronous water level	228.35 (03/17/98)	226.9 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	33	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	5.4	1				GE							µg/L
Cobalt, total recoverable	1.5	1	JE			GE							µg/L
Copper, total recoverable	2.5	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	5.3	5	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	0.36	1				GE	µg/L
Nickel, total recoverable	5.4	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	9,400	5				GE	8,000	5	J			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	14	5	JE			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<11	1	J2			GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB116D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-2.4E-01	1	UI			GP							pCi/L
Carbon-14	1.3E+01	1				GP							pCi/L
Cobalt-60	1.8E+01	1				GP							pCi/L
Curium-242	<7.3E-02	1	UI			GP							pCi/L
Curium-243/244	<-1.8E-01	1	UJI			GP							pCi/L
Curium-245/246	<-3.3E-02	1	UI			GP							pCi/L
Gross alpha	1.3E+01	1				GP	7.6E+00	1				GP	pCi/L
Iodine-129	1.2E+00	1				GP							pCi/L
Nickel-63	1.8E+01												pCi/L
Nonvolatile beta	1.4E+03	1		■		GP	6.7E+02	1		■		GP	pCi/L
Plutonium-238	8.9E-01	1	UIV			GP							pCi/L
Plutonium-239/240	1.3E-01	1				GP							pCi/L
Radium-226	2.4E+00	1				GP							pCi/L
Radium-228	7.0E+01	1	J	■		GP							pCi/L
Strontium-90	8.0E+02	1		■		GP							pCi/L
Technetium-99	<-5.6E+00	1	UI			GP							pCi/L
Thorium-228	<-2.7E-02	1	UI			GP							pCi/L
Thorium-230	<2.1E-02	1	UI			GP							pCi/L
Thorium-232	<3.0E-03	1	UJI			GP							pCi/L
Total alpha emitters	1.3E-01												pCi/L
Total beta emitters	9.2E+02			■									pCi/L
Total radium	7.2E+01												pCi/L
Tritium	7.2E+01	1		■		GP	1.1E+02	1		■		GP	pCi/mL
Uranium-233/234	3.6E-01	1	UIV			GP							pCi/L
Uranium-235	<-1.0E-02	1	UI			GP							pCi/L
Uranium-238	<-2.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB117A

<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>Screen Zone</u>
N72733.6 E55170.1	33.276655 °N 81.662810 °W	94.8-84.8 ft msl	237.3 ft msl	4" PVC	S	M. Congaree (IIA)

SAMPLE DATE	01/08/98	04/07/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	166.5	167.6	ft msl
pH	5.9	6.0	pH
Sp. conductance	90	110	µS/cm
Water temperature	19.0	17.6	°C
Alkalinity as CaCO ₃	52	49	mg/L
Turbidity	1	0	NTU
Volumes purged	2.9	2.5	well vol
Sampling code			
Synchronous water level	167.3 (03/18/98)	167.4 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	28	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.5	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	0.31	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	40	1	JE			GE	<30	1	JEV			GE	µg/L
Selenium, total recoverable	<4.5	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.60	1	JE			GE							µg/L
Zinc, total recoverable	<6.3	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	13	1			■	GE							µg/L
Dichloromethane	<1.4	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB117A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-5.5E-04	1	UI			GP							pCi/L
Carbon-14	<4.3E-01	1	UI			GP							pCi/L
Cobalt-60	<1.6E+00	1	UI			GP							pCi/L
Curium-242	<-2.9E-04	1	UI			GP							pCi/L
Curium-243/244	<6.0E-02	1	UI			GP							pCi/L
Curium-245/246	<4.6E-02	1	UI			GP							pCi/L
Gross alpha	1.1E+00	1				GP	1.1E+00	1	J2			GP	pCi/L
Iodine-129	<-1.2E-01	1	UI			GP							pCi/L
Nickel-63	<1.6E+00		UI										pCi/L
Nonvolatile beta	2.1E+00	1				GP	1.4E+00	1				GP	pCi/L
Plutonium-238	<-1.0E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-5.0E-03	1	UI			GP							pCi/L
Radium-226	1.1E+00	1				GP							pCi/L
Radium-228	4.3E+00	1	UIV			GP							pCi/L
Strontium-90	<1.3E-01	1	UI			GP							pCi/L
Technetium-99	<-1.4E+01	1	UI			GP							pCi/L
Thorium-228	<-9.0E-03	1	UI			GP							pCi/L
Thorium-230	<1.7E-01	1	UI			GP							pCi/L
Thorium-232	<-1.4E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters													
Total radium	1.1E+00												pCi/L
Tritium	<-3.2E-01	1	UI			GP	<1.6E-01	1	UI			GP	pCi/mL
Uranium-233/234	<6.0E-03	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<0.0E+00	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N72740.7 E55162.9	33.276659 °N 81.662842 °W	175.1-165.1 ft msl	237.4 ft msl	4" PVC	V	Bamwell (IIB1)

SAMPLE DATE 01/05/98 04/21/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.2	225.0	ft msl
pH	4.5	4.2	pH
Sp. conductance	320	320	µS/cm
Water temperature	18.2	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0	0	NTU
Volumes purged	0.75	2.5	well vol
Sampling code			
Synchronous water level	225.1 (03/18/98)	221.8 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	58	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	3.7	1	JE	■		GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.54	1	V			GE	0.11	1	JE			GE	µg/L
Nickel, total recoverable	2.9	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	34,000	20		■		GE	41,000	25	V	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	8.5	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB117C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.8E-02	1	UI			GP							pCi/L
Carbon-14	3.4E+02	1		■		GP							pCi/L
Cobalt-60	<6.5E-01	1	UI			GP							pCi/L
Curium-242	<9.0E-03	1	UI			GP							pCi/L
Curium-243/244	<1.5E-02	1	UI			GP							pCi/L
Curium-245/246	7.8E-02	1	R4			GP							pCi/L
Gross alpha	1.1E+01	1				GP	1.0E+01	1	V			GP	pCi/L
Iodine-129	4.1E+00	1				GP							pCi/L
Nickel-63	<6.5E-01		UI										pCi/L
Nonvolatile beta	9.0E+01	1		■		GP	6.2E+01	1	V	■		GP	pCi/L
Plutonium-238	<1.4E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-1.7E-02	1	UI			GP							pCi/L
Radium-226	3.8E+00	1				GP							pCi/L
Radium-228	3.6E+00	1				GP							pCi/L
Strontium-90	<1.5E-02	1	UI			GP							pCi/L
Technetium-99	1.5E+02	1		■		GP							pCi/L
Thorium-228	<1.5E-01	1	UI			GP							pCi/L
Thorium-230	<6.5E-02	1	UI			GP							pCi/L
Thorium-232	<-1.8E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	5.0E+02			■									pCi/L
Total radium	7.5E+00												pCi/L
Tritium	4.2E+03	1		■		GP	5.0E+03	1	J	■		GP	pCi/mL
Uranium-233/234	<1.4E-01	1	UI			GP							pCi/L
Uranium-235	<1.0E-02	1	UI			GP							pCi/L
Uranium-238	<3.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB117D

<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>Screen Zone</u>
N72747.6 E55155.6	33.276662 °N 81.662875 °W	220.3-200.3 ft msl	237.6 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE 01/08/98 04/07/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	225.2	227.9	ft msl
pH	4.8	4.8	pH
Sp. conductance	22	19	µS/cm
Water temperature	19.0	15.9	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	6.6	3.5	well vol
Sampling code			
Synchronous water level	228.0 (03/18/98)	223.6 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	2.4	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	3.0	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<1.1	1	JEV			GE							µg/L
Mercury, total recoverable	0.28	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	380	1				GE	420	1	V			GE	µg/L
Selenium, total recoverable	<2.5	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	11	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.3	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB117D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.7E-02	1	UI			GP							pCi/L
Carbon-14	<1.1E-01	1	UI			GP							pCi/L
Cobalt-60	<-2.3E-01	1	UI			GP							pCi/L
Curium-242	<1.1E-02	1	UI			GP							pCi/L
Curium-243/244	<4.8E-02	1	UI			GP							pCi/L
Curium-245/246	<3.1E-02	1	UI			GP							pCi/L
Gross alpha	3.0E-01	1				GP	3.9E-01	1	J2			GP	pCi/L
Iodine-129	<5.0E-01	1	UI			GP							pCi/L
Nickel-63	<-2.3E-01		UI										pCi/L
Nonvolatile beta	<3.0E-01	1	UI			GP	<7.2E-01	1	UI			GP	pCi/L
Plutonium-238	<-2.2E-01	1	UI			GP							pCi/L
Plutonium-239/240	<1.9E-02	1	UI			GP							pCi/L
Radium-226	<1.7E-01	1	UI			GP							pCi/L
Radium-228	2.6E+00	1	UIV			GP							pCi/L
Strontium-90	<5.6E-01	1	UI			GP							pCi/L
Technetium-99	<-1.3E+01	1	UI			GP							pCi/L
Thorium-228	<7.2E-01	1	UI			GP							pCi/L
Thorium-230	<4.2E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters													
Tritium	1.1E+01	1				GP	1.2E+01	1				GP	pCi/mL
Uranium-233/234	<3.7E-02	1	UI			GP							pCi/L
Uranium-235	<3.7E-02	1	UI			GP							pCi/L
Uranium-238	<-1.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB118A

<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>Screen Zone</u>
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	01/05/98	05/04/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	167.6	169.1	ft msl
pH	6.8	6.3	pH
Sp. conductance	180	160	µS/cm
Water temperature	20.6	19.8	°C
Alkalinity as CaCO ₃	65	56	mg/L
Turbidity	0	1	NTU
Volumes purged	2.2	2.5	well vol
Sampling code			
Synchronous water level	168.73 (03/17/98)	168.6 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	48	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	8.7	1	JE			GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.12	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	4,800	3				GE	4,400	3				GE	µg/L
Selenium, total recoverable	<2.1	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<2.2	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB118A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<7.7E-02	1	UI			GP							pCi/L
Carbon-14	2.3E+01	1				GP							pCi/L
Cobalt-60	<7.7E-01	1	UI			GP							pCi/L
Curium-242	<2.7E-02	1	UI			GP							pCi/L
Curium-243/244	<1.2E-01	1	UI			GP							pCi/L
Curium-245/246	7.7E-02	1	R4			GP							pCi/L
Gross alpha	1.1E+00	1				GP	<6.7E-01	1	UI			GP	pCi/L
Iodine-129	<6.0E-01	1	UI			GP							pCi/L
Nickel-63	<7.7E-01		UI										pCi/L
Nonvolatile beta	6.6E+00	1				GP	5.6E+00	1				GP	pCi/L
Plutonium-238	<6.2E-02	1	UI			GP							pCi/L
Plutonium-239/240	<4.9E-02	1	UI			GP							pCi/L
Radium-226	1.3E+00	1				GP							pCi/L
Radium-228	4.1E+00	1				GP							pCi/L
Strontium-90	<6.4E-01	1	UI			GP							pCi/L
Technetium-99	<1.3E+01	1	UI			GP							pCi/L
Thorium-228	<6.7E-02	1	UI			GP							pCi/L
Thorium-230	<5.5E-02	1	UI			GP							pCi/L
Thorium-232	<8.0E-03	1	UI			GP							pCi/L
Total alpha emitters	1.1E+00												pCi/L
Total beta emitters	2.7E+01												pCi/L
Total radium	5.4E+00												pCi/L
Tritium	1.7E+03	1		■		GP	1.5E+03	1			■	GP	pCi/mL
Uranium-233/234	5.0E-01	1				GP							pCi/L
Uranium-235	<1.4E-01	1	UI			GP							pCi/L
Uranium-238	5.7E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB119A

<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>Screen Zone</u>
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	01/08/98	04/13/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	167.1	168.1	ft msl
pH	6.4	6.8	pH
Sp. conductance	140	140	µS/cm
Water temperature	20.0	19.9	°C
Alkalinity as CaCO ₃	38	53	mg/L
Turbidity	1	1	NTU
Volumes purged	2.3	3.2	well vol
Sampling code			
Synchronous water level	168 (03/17/98)	168.0 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	12	1				GE							µg/L
Cadmium, total recoverable	0.33	1	JE			GE							µg/L
Chromium, total recoverable	1.2	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	1.7	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<1.4	1	JEV			GE							µg/L
Mercury, total recoverable	0.26	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	5,200	3				GE	5,200	3	V			GE	µg/L
Selenium, total recoverable	<2.0	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.66	1	JE			GE							µg/L
Zinc, total recoverable	19	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.3	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB119A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-5.0E-03	1	UI			GP							pCi/L
Carbon-14	8.4E+01	1		■		GP							pCi/L
Cobalt-60	<2.2E+00	1	UI			GP							pCi/L
Curium-242	<7.4E-02	1	UI			GP							pCi/L
Curium-243/244	<1.3E-01	1	UI			GP							pCi/L
Curium-245/246	<6.6E-02	1	UI			GP							pCi/L
Gross alpha	1.6E+00	1				GP	9.7E-01	1				GP	pCi/L
Iodine-129	<8.5E-01	1	UI			GP							pCi/L
Nickel-63	<2.2E+00		UI										pCi/L
Nonvolatile beta	1.3E+01	1				GP	1.3E+01	1	J			GP	pCi/L
Plutonium-238	<-4.8E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-3.8E-04	1	UI			GP							pCi/L
Radium-226	<4.1E-01	1	UI			GP							pCi/L
Radium-228	2.8E+00	1	UIV			GP							pCi/L
Strontium-90	<4.6E-01	1	UI			GP							pCi/L
Technetium-99	<4.3E+00	1	UI			GP							pCi/L
Thorium-228	<-2.4E-01	1	UI			GP							pCi/L
Thorium-230	<3.7E-01	1	UI			GP							pCi/L
Thorium-232	<7.9E-02	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	8.4E+01												pCi/L
Tritium	3.8E+02	1		■		GP	3.6E+02	1		■		GP	pCi/mL
Uranium-233/234	<-3.0E-03	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<-3.0E-03	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB120A

<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>Screen Zone</u>
N73395.1 E56431.9	33.280177 °N 81.660772 °W	101.0-91.0 ft msl	268.2 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	01/08/98	04/13/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	166.4	167.6	ft msl
pH	6.7	7.2	pH
Sp. conductance	150	180	µS/cm
Water temperature	19.8	20.0	°C
Alkalinity as CaCO ₃	80	54	mg/L
Turbidity	1	0	NTU
Volumes purged	2.6	3.3	well vol
Sampling code			
Synchronous water level	166.62 (03/17/98)	167.3 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	30	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	0.86	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	3.9	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	0.27	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	50	1	JE			GE	<60	1	V			GE	µg/L
Selenium, total recoverable	<3.8	1	JEV			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<3.1	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1	●			GE							µg/L
Dichloromethane	<1.4	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB120A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.0E-01	1	UI			GP							pCi/L
Carbon-14	<1.1E-01	1	UI			GP							pCi/L
Cobalt-60	<-1.5E+00	1	UI			GP							pCi/L
Curium-242	<2.0E-03	1	UI			GP							pCi/L
Curium-243/244	<-3.6E-02	1	UI			GP							pCi/L
Curium-245/246	<-1.3E-02	1	UI			GP							pCi/L
Gross alpha	1.0E+00	1				GP	8.0E-01	1				GP	pCi/L
Iodine-129	<-1.9E-01	1	UI			GP							pCi/L
Nickel-63	<-1.5E+00		UI										pCi/L
Nonvolatile beta	<8.4E-01	1	UI			GP	1.7E+00	1	J			GP	pCi/L
Plutonium-238	<1.4E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-4.0E-03	1	UI			GP							pCi/L
Radium-226	<3.9E-01	1	UI			GP							pCi/L
Radium-228	2.4E+00	1	UIV			GP							pCi/L
Strontium-90	<3.5E-01	1	UI			GP							pCi/L
Technetium-99	<-1.3E+01	1	UI			GP							pCi/L
Thorium-228	<-1.3E-01	1	UI			GP							pCi/L
Thorium-230	5.6E-01	1				GP							pCi/L
Thorium-232	<8.0E-02	1	UI			GP							pCi/L
Total alpha emitters	9.8E-01												pCi/L
Total beta emitters													
Tritium	<-1.8E-01	1	UI			GP	<-4.8E-02	1	UI			GP	pCi/mL
Uranium-233/234	4.3E-01	1				GP							pCi/L
Uranium-235	<5.6E-02	1	UI			GP							pCi/L
Uranium-238	<-1.1E-02	1	UJI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB121A

<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>Screen Zone</u>
N72024.8 E57389.6	33.278709 °N 81.655589 °W	98.3-88.3 ft msl	274.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	01/14/98	04/13/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	171.6	172.8	ft msl
pH	6.5	7.0	pH
Sp. conductance	180	200	µS/cm
Water temperature	18.1	20.0	°C
Alkalinity as CaCO ₃	102	68	mg/L
Turbidity	0	0	NTU
Volumes purged	2.9	2.9	well vol
Sampling code			
Synchronous water level	172.74 (03/17/98)	172.8 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	30	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.12	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	10	1	JE			GE	<40	1	JEV			GE	µg/L
Selenium, total recoverable	<2.6	1	JEV			GE							µg/L
Silver, total recoverable	1.3	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<3.0	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	5.0	1	JE			GE							µg/L
Dichloromethane	<0.94	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB121A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<5.7E-01	1	UI			GP							pCi/L
Carbon-14	<1.1E+00	1	UI			GP							pCi/L
Cobalt-60	<1.2E+00	1	UI			GP							pCi/L
Curium-242	<5.5E-02	1	UI			GP							pCi/L
Curium-243/244	<3.3E-01	1	UI			GP							pCi/L
Curium-245/246	<4.7E-02	1	UI			GP							pCi/L
Gross alpha	1.4E+00	1				GP	9.8E-01	1				GP	pCi/L
Iodine-129	<2.0E-01	1	UI			GP							pCi/L
Nickel-63	<1.2E+00		UI										pCi/L
Nonvolatile beta	2.9E+01	1				GP	2.1E+00	1	J			GP	pCi/L
Plutonium-238	<1.5E-01	1	UJI			GP							pCi/L
Plutonium-239/240	<2.0E-02	1	UI			GP							pCi/L
Radium-226	9.1E-01	1				GP							pCi/L
Radium-228	1.5E+00	1				GP							pCi/L
Strontium-90	<3.9E-01	1	UI			GP							pCi/L
Technetium-99	<2.0E-01	1	UI			GP							pCi/L
Thorium-228	<7.7E-02	1	UI			GP							pCi/L
Thorium-230	<1.4E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	2.5E-01												pCi/L
Total beta emitters	1.5E+00												pCi/L
Total radium	2.4E+00												pCi/L
Tritium	<3.5E-02	1	UI			GP	<2.4E-01	1	UI			GP	pCi/mL
Uranium-233/234	<1.0E-01	1	UI			GP							pCi/L
Uranium-235	<1.0E-02	1	UI			GP							pCi/L
Uranium-238	2.5E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N72195.9 E57747.4	33.279671 °N 81.654979 °W	95.4-85.4 ft msl	271.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	01/15/98	04/13/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	171.5	172.6	ft msl
pH	6.0	6.8	pH
Sp. conductance	170	200	µS/cm
Water temperature	17.8	20.0	°C
Alkalinity as CaCO ₃	80	75	mg/L
Turbidity	0	0	NTU
Volumes purged	2.7	2.5	well vol
Sampling code			
Synchronous water level	172.47 (03/17/98)	172.6 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	27	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	20	1	JE			GE	<50	1	JEV			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.2	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<5.0	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1	3			GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB122A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.7E-02	1	UI			GP							pCi/L
Carbon-14	<1.9E+00	1	UI			GP							pCi/L
Cobalt-60	<8.7E-01	1	UI			GP							pCi/L
Curium-242	<1.4E-01	1	UI			GP							pCi/L
Curium-243/244	<4.4E-02	1	UI			GP							pCi/L
Curium-245/246	<1.4E-01	1	UI			GP							pCi/L
Gross alpha	1.2E+00	1				GP	8.7E-01	1				GP	pCi/L
Iodine-129	<6.2E-01	1	UI			GP							pCi/L
Nickel-63	<8.7E-01	1	UI										pCi/L
Nonvolatile beta	<2.6E-01	1	UI			GP	1.2E+00	1	J			GP	pCi/L
Plutonium-238	<1.8E-01	1	UI			GP							pCi/L
Plutonium-239/240	<1.5E-01	1	UI			GP							pCi/L
Radium-226	4.5E-01	1	UIV			GP							pCi/L
Radium-228	2.0E+00	1				GP							pCi/L
Strontium-90	<9.1E-02	1	UI			GP							pCi/L
Technetium-99	<2.1E+00	1	UI			GP							pCi/L
Thorium-228	<1.5E-02	1	UI			GP							pCi/L
Thorium-230	<1.7E-01	1	UI			GP							pCi/L
Thorium-232	<8.0E-03	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	2.0E+00												pCi/L
Total radium	2.0E+00												pCi/L
Tritium	<1.3E-01	1	UI			GP	<0.0E+00	1		UI		GP	pCi/mL
Uranium-233/234	<1.2E-01	1	UI			GP							pCi/L
Uranium-235	<3.4E-02	1	UI			GP							pCi/L
Uranium-238	<0.0E+00	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 01/19/98 04/16/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	172.8	175.8	ft msl
pH	11.1	10.8	pH
Sp. conductance	3100	280	µS/cm
Water temperature	16.6	19.0	°C
Alkalinity as CaCO ₃	296	96	mg/L
Turbidity	1	1	NTU
Volumes purged	0.019	0.019	well vol
Sampling code	XN	XN	
Synchronous water level	175.49 (03/17/98)	173.6 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	120	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	30	1	JE			GE	10	1	JE			GE	µg/L
Selenium, total recoverable	1.9	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	19	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<2.9	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB123A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<8.4E-02	1	UI			GP							pCi/L
Carbon-14	<-1.8E+00	1	UI			GP							pCi/L
Cobalt-60	<3.9E-01	1	UI			GP							pCi/L
Curium-242	<5.7E-02	1	UI			GP							pCi/L
Curium-243/244	<-1.0E-02	1	UI			GP							pCi/L
Curium-245/246	<-9.0E-03	1	UI			GP							pCi/L
Gross alpha	1.6E+00	1				GP	1.3E+00	1				GP	pCi/L
Iodine-129	<3.6E-02	1	UI			GP							pCi/L
Nickel-63	<3.9E-01		UI										pCi/L
Nonvolatile beta	1.8E+00	1				GP	3.5E+00	1				GP	pCi/L
Plutonium-238	5.7E-01	1				GP							pCi/L
Plutonium-239/240	<1.0E-02	1	UI			GP							pCi/L
Radium-226	<4.6E-01	1	UI			GP							pCi/L
Radium-228	2.1E+00	1				GP							pCi/L
Strontium-90	<3.7E-01	1	UI			GP							pCi/L
Technetium-99	<-8.5E+00	1	UI			GP							pCi/L
Thorium-228	<-1.6E-01	1	UI			GP							pCi/L
Thorium-230	<1.6E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	5.7E-01												pCi/L
Total beta emitters	2.1E+00												pCi/L
Total radium	2.1E+00												pCi/L
Tritium	<2.1E-01	1	UI			GP	<8.1E-02	1		UI		GP	pCi/mL
Uranium-233/234	<1.9E-01	1	UI			GP							pCi/L
Uranium-235	<5.3E-02	1	UI			GP							pCi/L
Uranium-238	<6.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB124AR

<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>Screen Zone</u>
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	02/17/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	172.7	173.2	ft msl
pH	6.7	7.4	pH
Sp. conductance	210	200	µS/cm
Water temperature	21.1	23.0	°C
Alkalinity as CaCO ₃	90	71	mg/L
Turbidity	0	1	NTU
Volumes purged	2.1	2.6	well vol
Sampling code			
Synchronous water level	172.93 (03/17/98)	173.0 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	32	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	53,000	40			■	GE	22	1				WA	µg/L
Selenium, total recoverable	1.8	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<5.3	1	V			GE							µg/L
<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>

Organic Constituents

Benzene	<1.0	1	J1		●	GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<2.5	1	JV1		●	GE							µg/L
Tetrachloroethylene	<1.0	1	J1		●	GE							µg/L
Trichloroethylene	<1.0	1	J1		●	GE							µg/L
Trichlorofluoromethane	<1.0	1	J1		●	GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB124AR (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	6.1E-01	1	UIV			GP							pCi/L
Carbon-14	<3.1E-01	1	UI			GP							pCi/L
Cobalt-60	<1.1E+00	1	UI			GP							pCi/L
Curium-242	<1.2E-02	1	UI			GP							pCi/L
Curium-243/244	5.3E-01	1	UIV			GP							pCi/L
Curium-245/246	<8.5E-02	1	UI			GP							pCi/L
Gross alpha	9.4E-01	1	UIV			GP	1.1E+00	1				GP	pCi/L
Iodine-129	1.1E+01	1	J1			GP							pCi/L
Nickel-63	<1.1E+00		UI										pCi/L
Nonvolatile beta	<1.2E+00	1	UI			GP	1.3E+00	1				GP	pCi/L
Plutonium-238	4.2E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<5.2E-02	1	UI			GP							pCi/L
Radium-226	4.4E+00	1				GP							pCi/L
Radium-228	1.4E+00	1	J			GP							pCi/L
Strontium-90	<9.3E-02	1	UI			GP							pCi/L
Technetium-99	<2.5E-01	1	UI			GP							pCi/L
Thorium-228	<2.0E-02	1	UI			GP							pCi/L
Thorium-230	<1.3E-01	1	UI			GP							pCi/L
Thorium-232	<5.9E-02	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	1.2E+01												pCi/L
Total radium	5.8E+00												pCi/L
Tritium	<3.9E-01	1	UI			GP	<2.2E-01	1				UI	TM pCi/mL
Uranium-233/234	2.1E-01	1	UIV			GP							pCi/L
Uranium-235	<2.7E-02	1	UI			GP							pCi/L
Uranium-238	<2.7E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71503.6 E58592.8	33.279519 °N 81.651408 °W	155.6-145.6 ft msl	231.9 ft msl	4" PVC	S	Bamwell (IIB1)

<u>SAMPLE DATE</u>	01/13/98	04/07/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	223.8	226.3	ft msl
pH	5.3	4.6	pH
Sp. conductance	22	24	µS/cm
Water temperature	18.8	20.0	°C
Alkalinity as CaCO ₃	3	4	mg/L
Turbidity	1	1	NTU
Volumes purged	2.9	2.4	well vol
Sampling code			
Synchronous water level	226.2 (03/18/98)	225.5 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	3.1	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	4.1	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.18	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	140	1				GE	140	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	7.1	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.5	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB125C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	6.1E-01	1	UIV			GP							pCi/L
Carbon-14	<2.2E+00	1	UI			GP							pCi/L
Cobalt-60	<-7.6E-01	1	UI			GP							pCi/L
Curium-242	<-4.0E-02	1	UI			GP							pCi/L
Curium-243/244	<2.4E-01	1	UI			GP							pCi/L
Curium-245/246	<-1.0E-02	1	UI			GP							pCi/L
Gross alpha	<2.8E-01	1	UI			GP	<1.5E-01	1	UI			GP	pCi/L
Iodine-129	<3.6E-01	1	UI			GP							pCi/L
Nickel-63	<-7.6E-01		UI										pCi/L
Nonvolatile beta	<1.9E-01	1	UJI			GP	1.1E+00	1				GP	pCi/L
Plutonium-238	<3.1E-01	1	UJI			GP							pCi/L
Plutonium-239/240	<7.7E-02	1	UI			GP							pCi/L
Radium-226	<1.8E-01	1	UI			GP							pCi/L
Radium-228	2.5E+00	1				GP							pCi/L
Strontium-90	<7.8E-02	1	UJI			GP							pCi/L
Technetium-99	<6.2E+00	1	UI			GP							pCi/L
Thorium-228	<-3.7E-02	1	UI			GP							pCi/L
Thorium-230	<6.7E-02	1	UI			GP							pCi/L
Thorium-232	<4.8E-02	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	2.5E+00												pCi/L
Total radium	2.5E+00												pCi/L
Tritium	2.7E+00	1				GP	2.7E+00	1				GP	pCi/mL
Uranium-233/234	<-2.0E-02	1	UI			GP							pCi/L
Uranium-235	<-1.0E-02	1	UI			GP							pCi/L
Uranium-238	<2.2E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71498.2 E58584.1	33.279492 °N 81.651421 °W	219.4-199.4 ft msl	231.7 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/13/98	04/21/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	221.2	222.2	ft msl
pH	5.3	5.8	pH
Sp. conductance	100	100	µS/cm
Water temperature	18.4	18.8	°C
Alkalinity as CaCO ₃	0	1	mg/L
Turbidity	1	0	NTU
Volumes purged	2.3	3.3	well vol
Sampling code			
Synchronous water level	222.3 (03/18/98)	221.1 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	39	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.1	1	JE			GE							µg/L
Cobalt, total recoverable	2.3	1	JE			GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	0.71	1	V			GE	1.1	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	8,900	5				GE	8,400	5	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	15	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	5.0	1	JE			GE							µg/L
Dichloromethane	<1.3	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB125D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.3E-01	1	UI			GP							pCi/L
Carbon-14	4.6E+01	1				GP							pCi/L
Cobalt-60	<-4.8E-01	1	UI			GP							pCi/L
Curium-242	<-6.3E-02	1	UI			GP							pCi/L
Curium-243/244	<2.8E-01	1	UI			GP							pCi/L
Curium-245/246	<8.0E-02	1	UI			GP							pCi/L
Gross alpha	3.4E+00	1				GP	1.3E+00	1	J2			GP	pCi/L
Iodine-129	3.2E+00	1	R4			GP							pCi/L
Nickel-63	<-4.8E-01		UI										pCi/L
Nonvolatile beta	6.3E+01	1	J	■		GP	1.9E+01	1				GP	pCi/L
Plutonium-238	<4.5E-01	1	UJI			GP							pCi/L
Plutonium-239/240	<2.0E-02	1	UI			GP							pCi/L
Radium-226	1.3E+00	1				GP							pCi/L
Radium-228	3.5E+00	1				GP							pCi/L
Strontium-90	2.9E+01	1		■		GP							pCi/L
Technetium-99	<1.4E+01	1	UI			GP							pCi/L
Thorium-228	<5.0E-03	1	UI			GP							pCi/L
Thorium-230	<-9.0E-03	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	7.9E+01												pCi/L
Total radium	4.8E+00												pCi/L
Tritium	3.5E+02	1		■		GP	4.4E+02	1		■		GP	pCi/mL
Uranium-233/234	<6.3E-02	1	UJI			GP							pCi/L
Uranium-235	<3.0E-03	1	UI			GP							pCi/L
Uranium-238	<1.3E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB126C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70627.7 E57178.2	33.275273 °N 81.653432 °W	181.3-176.3 ft msl	212.6 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/29/98	04/02/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	205.0	205.0	ft msl
pH	7.3	7.8	pH
Sp. conductance	240	240	µS/cm
Water temperature	16.6	18.8	°C
Alkalinity as CaCO ₃	68	53	mg/L
Turbidity	0	0	NTU
Volumes purged	3.1	3.5	well vol
Sampling code			
Synchronous water level	205.1 (03/18/98)	204.5 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	31	1				GE							µg/L
Cadmium, total recoverable	0.51	1	JE			WA							µg/L
Chromium, total recoverable	4.7	1	JE			GE							µg/L
Cobalt, total recoverable	<4.5	1				WA							µg/L
Copper, total recoverable	<2.7	1	V			WA							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	0.66	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	11,000	10	V	■		GE	12,000	10	J	■		GE	µg/L
Selenium, total recoverable	1.6	1	JE			GE							µg/L
Silver, total recoverable	<2.1	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.57	1	JE			GE							µg/L
Zinc, total recoverable	22	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<2.4	1	V			WA							µg/L
Dichloromethane	<1.4	1	JV			GE							µg/L
Tetrachloroethylene	3.1	1	JE			WA							µg/L
Trichloroethylene	0.56	1	JE			GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB126C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	1.8E+00	1	V			GP							pCi/L
Carbon-14	2.7E+02	1		■		TM							pCi/L
Cobalt-60	<-9.8E-02	1	UI			GP							pCi/L
Curium-242	<0.0E+00	1	UI			TM							pCi/L
Curium-243/244	9.1E-01	1	V			GP							pCi/L
Curium-245/246	<1.5E-01	1	UI			GP							pCi/L
Gross alpha	9.8E-01	1				GP	<5.3E-01	1	UI			GP	pCi/L
Iodine-129	<4.8E-02	1	UI			GP							pCi/L
Nickel-63	<-9.8E-02		UI										pCi/L
Nonvolatile beta	5.9E+00	1	J			TM	1.1E+01	1				GP	pCi/L
Plutonium-238	<-2.1E-01	1	UI			TM							pCi/L
Plutonium-239/240	<2.0E-03	1	UI			GP							pCi/L
Radium-226	<1.8E-01	1	UI			GP							pCi/L
Radium-228	4.7E+00	1				GP							pCi/L
Strontium-90	<0.0E+00	1	UI			TM							pCi/L
Technetium-99	2.1E+01	1				TM							pCi/L
Thorium-228	<-3.8E-02	1	UI			GP							pCi/L
Thorium-230	2.7E-01	1				TM							pCi/L
Thorium-232	<5.0E-02	1	UI			TM							pCi/L
Total alpha emitters	3.0E+00												pCi/L
Total beta emitters	3.0E+02			■									pCi/L
Total radium	4.7E+00												pCi/L
Tritium	5.6E+02	1		■		TM	4.7E+02	1			■	GP	pCi/mL
Uranium-233/234	<-1.5E-02	1	UI			GP							pCi/L
Uranium-235	<-1.5E-02	1	UI			GP							pCi/L
Uranium-238	<2.9E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB126D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 (IIB2)

SAMPLE DATE	01/13/98	04/02/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	205.5	205.4	ft msl
pH	5.0	5.7	pH
Sp. conductance	210	260	µS/cm
Water temperature	17.9	18.2	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	4	3.4	NTU
Volumes purged	0.0	1.0	well vol
Sampling code	XN	XN	
Synchronous water level	205.7 (03/18/98)	204.6 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	64	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.7	1	JE			GE							µg/L
Cobalt, total recoverable	3.2	1	JE	■		GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	2.3	1	JE			GE							µg/L
Mercury, total recoverable	0.66	1	V			GE	1.6	1				GE	µg/L
Nickel, total recoverable	3.4	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	30,000	20		■		GE	31,000	20	J	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.0	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	1.4	1	JE			GE							µg/L
Zinc, total recoverable	13	1				GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.4	1	JV			GE							µg/L
Tetrachloroethylene	0.90	1	JE			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB126D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.3E-01	1	UI			GP							pCi/L
Carbon-14	6.9E+01	1		■		GP							pCi/L
Cobalt-60	<8.7E-01	1	UI			GP							pCi/L
Curium-242	<1.6E-01	1	UI			GP							pCi/L
Curium-243/244	<7.9E-02	1	UI			GP							pCi/L
Curium-245/246	<4.9E-02	1	UI			GP							pCi/L
Gross alpha	2.3E+00	1				GP	2.3E+00	1				GP	pCi/L
Iodine-129	1.4E+01	1				GP							pCi/L
Nickel-63	<8.7E-01		UI										pCi/L
Nonvolatile beta	1.4E+01	1	J			GP	1.3E+01	1				GP	pCi/L
Plutonium-238	<4.9E-01	1	UJI			GP							pCi/L
Plutonium-239/240	<-3.8E-02	1	UI			GP							pCi/L
Radium-226	<5.0E-01	1	UI			GP							pCi/L
Radium-228	2.5E+00	1				GP							pCi/L
Strontium-90	<-1.8E-01	1	UJI			GP							pCi/L
Technetium-99	3.2E+01	1				GP							pCi/L
Thorium-228	<-1.9E-01	1	UI			GP							pCi/L
Thorium-230	<9.4E-02	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	1.2E+02												pCi/L
Total radium	2.5E+00												pCi/L
Tritium	1.8E+03	1		■		GP	1.6E+03	1			■	GP	pCi/mL
Uranium-233/234	<-3.0E-02	1	UI			GP							pCi/L
Uranium-235	<6.3E-02	1	UI			GP							pCi/L
Uranium-238	<3.1E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71210.1 E56792.1	33.275932 °N 81.655580 °W	158.4-148.4 ft msl	225.7 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE	01/13/98	04/06/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	210.5	211.9	ft msl
pH	7.0	7.2	pH
Sp. conductance	160	230	µS/cm
Water temperature	20.0	19.2	°C
Alkalinity as CaCO ₃	95	80	mg/L
Turbidity	1	0	NTU
Volumes purged	4.5	2.3	well vol
Sampling code			
Synchronous water level	211.8 (03/18/98)	211.0 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	16	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.8	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1	V			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	8,800	5				GE	10,000	5		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<0.88	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	3.3	1	JE			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	0.48	1	JE			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.2	1	V			GE							µg/L
Tetrachloroethylene	2.2	1				GE							µg/L
Trichloroethylene	0.58	1	JE			GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB127C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	6.7E-01	1	UIV			GP							pCi/L
Carbon-14	2.1E+01	1				GP							pCi/L
Cobalt-60	<1.2E-01	1	UI			GP							pCi/L
Curium-242	<-9.9E-02	1	UI			GP							pCi/L
Curium-243/244	<5.1E-02	1	UI			GP							pCi/L
Curium-245/246	<-2.6E-02	1	UI			GP							pCi/L
Gross alpha	<1.8E-01	1	UI			GP	<9.2E-01	1	UI			GP	pCi/L
Iodine-129	<6.4E-01	1	UI			GP							pCi/L
Nickel-63	<1.2E-01		UI										pCi/L
Nonvolatile beta	5.7E+00	1	J			GP	1.1E+01	1				GP	pCi/L
Plutonium-238	<2.5E-01	1	UJI			GP							pCi/L
Plutonium-239/240	<3.6E-02	1	UI			GP							pCi/L
Radium-226	<2.3E-01	1	UI			GP							pCi/L
Radium-228	1.9E+00	1				GP							pCi/L
Strontium-90	<5.5E-01	1	UJI			GP							pCi/L
Technetium-99	<1.7E+01	1	UI			GP							pCi/L
Thorium-228	<-1.7E-01	1	UI			GP							pCi/L
Thorium-230	<9.2E-02	1	UI			GP							pCi/L
Thorium-232	<-4.9E-02	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	2.3E+01												pCi/L
Total radium	1.9E+00												pCi/L
Tritium	8.8E+02	1			■	GP	8.6E+02	1			■	GP	pCi/mL
Uranium-233/234	<-8.7E-02	1	UI			GP							pCi/L
Uranium-235	<-5.1E-02	1	UI			GP							pCi/L
Uranium-238	<-7.9E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB127D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 (IIB2)

SAMPLE DATE	01/13/98	04/06/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	218.3	219.2	ft msl
pH	5.2	4.3	pH
Sp. conductance	120	110	µS/cm
Water temperature	19.0	16.5	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0	0	NTU
Volumes purged	5.8	5.3	well vol
Sampling code			
Synchronous water level	218.2 (03/18/98)	216.5 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	18	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	5.7	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	5.0	1	V	■		GE	6.5	1		■		GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	12,000	10		■		GE	14,000	5		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	8.0	1				GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	19	1		■		GE							µg/L
Dichloromethane	<1.1	1	V			GE							µg/L
Tetrachloroethylene	0.55	1	JE			GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB127D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	5.8E-01	1	UIV			GP							pCi/L
Carbon-14	7.4E+01	1		■		GP							pCi/L
Cobalt-60	<2.0E+00	1	UI			GP							pCi/L
Curium-242	<-5.0E-02	1	UI			GP							pCi/L
Curium-243/244	<6.7E-02	1	UI			GP							pCi/L
Curium-245/246	<6.5E-02	1	UI			GP							pCi/L
Gross alpha	4.3E+00	1				GP	3.5E+00	1	J2			GP	pCi/L
Iodine-129	4.6E+00	1				GP							pCi/L
Nickel-63	<2.0E+00		UI										pCi/L
Nonvolatile beta	1.7E+01	1	J			GP	1.9E+01	1				GP	pCi/L
Plutonium-238	4.2E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<1.8E-02	1	UI			GP							pCi/L
Radium-226	<6.1E-01	1	UI			GP							pCi/L
Radium-228	2.3E+00	1				GP							pCi/L
Strontium-90	5.9E+00	1				GP							pCi/L
Technetium-99	<1.7E+01	1	UI			GP							pCi/L
Thorium-228	<1.4E-01	1	UI			GP							pCi/L
Thorium-230	<3.2E-01	1	UI			GP							pCi/L
Thorium-232	<3.4E-02	1	UI			GP							pCi/L
Total alpha emitters	5.0E-01												pCi/L
Total beta emitters	8.6E+01			■									pCi/L
Total radium	2.3E+00												pCi/L
Tritium	9.1E+02	1		■		GP	8.2E+02	1			■	GP	pCi/mL
Uranium-233/234	5.0E-01	1				GP							pCi/L
Uranium-235	<2.0E-02	1	UI			GP							pCi/L
Uranium-238	<1.2E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB129C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71830.4 E55110.0	33.274559 °N 81.661214 °W	157.8-147.8 ft msl	215.1 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE 01/28/98 05/04/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	207.1	207.1	ft msl
pH	5.6	5.2	pH
Sp. conductance	180	260	µS/cm
Water temperature	18.0	18.6	°C
Alkalinity as CaCO ₃	19	5	mg/L
Turbidity	1	1	NTU
Volumes purged	0.026	2.3	well vol
Sampling code	XN		
Synchronous water level	207.1 (03/18/98)	205.9 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	91	1				GE							µg/L
Cadmium, total recoverable	0.75	1	JE			GE							µg/L
Chromium, total recoverable	0.98	1	JE			GE							µg/L
Cobalt, total recoverable	3.2	1	JE	■		GE							µg/L
Copper, total recoverable	5.6	1				GE							µg/L
Cyanide	<10	1	J3			GE							µg/L
Lead, total recoverable	3.3	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	9.1	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	23,000	20	V	■		GE	32,000	25		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.44	1	JE			GE							µg/L
Zinc, total recoverable	170	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1	J1		●	GE							µg/L
Dichloromethane	<2.6	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB129C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.7E-01	1	UI			GP							pCi/L
Carbon-14	1.8E+02	1		■		GP							pCi/L
Cobalt-60	<7.9E-01	1	UI			GP							pCi/L
Curium-242	<7.1E-02	1	UI			GP							pCi/L
Curium-243/244	<1.4E-01	1	UI			GP							pCi/L
Curium-245/246	<3.9E-02	1	UI			GP							pCi/L
Gross alpha	4.4E+00	1				GP	6.9E+00	1				GP	pCi/L
Iodine-129	<5.3E-01	1	UI			GP							pCi/L
Nickel-63	<7.9E-01		UI										pCi/L
Nonvolatile beta	8.3E+01	1		■		GP	1.0E+02	1		■		GP	pCi/L
Plutonium-238	<5.7E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-1.6E-02	1	UI			GP							pCi/L
Radium-226	1.0E+00	1	UIV			GP							pCi/L
Radium-228	2.3E+00	1	UIV			GP							pCi/L
Strontium-90	<5.7E-01	1	UI			GP							pCi/L
Technetium-99	1.5E+02	1		■		GP							pCi/L
Thorium-228	<-3.2E-02	1	UI			GP							pCi/L
Thorium-230	<2.7E-01	1	UI			GP							pCi/L
Thorium-232	<-1.7E-02	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	3.3E+02			■									pCi/L
Tritium	2.2E+03	1		■		GP	2.6E+03	1		■		GP	pCi/mL
Uranium-233/234	<5.0E-03	1	UI			GP							pCi/L
Uranium-235	<4.7E-02	1	UI			GP							pCi/L
Uranium-238	<0.0E+00	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB129D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71837.1 E55103.4	33.274563 °N 81.661244 °W	205.2-185.2 ft msl	214.7 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE	01/19/98	04/16/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	210.0	209.5	ft msl
pH	5.0	4.6	pH
Sp. conductance	130	140	µS/cm
Water temperature	16.0	18.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	4.5	5.3	well vol
Sampling code			
Synchronous water level	209.5 (03/18/98)	207.9 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	14	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	1.9	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1	JEV			GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	15,000	20		■		GE	14,000	10		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<4.1	1	JEV			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.90	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB129D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.2E-02	1	UI			GP							pCi/L
Carbon-14	7.6E+01	1		■		GP							pCi/L
Cobalt-60	<9.7E-01	1	UI			GP							pCi/L
Curium-242	<6.2E-02	1	UI			GP							pCi/L
Curium-243/244	<9.1E-02	1	UI			GP							pCi/L
Curium-245/246	<2.2E-02	1	UI			GP							pCi/L
Gross alpha	7.4E-01	1				GP	1.8E+00	1				GP	pCi/L
Iodine-129	2.0E+00	1	R4			GP							pCi/L
Nickel-63	<9.7E-01		UI										pCi/L
Nonvolatile beta	3.5E+01	1				GP	2.0E+01	1				GP	pCi/L
Plutonium-238	4.7E-01	1				GP							pCi/L
Plutonium-239/240	<1.9E-02	1	UI			GP							pCi/L
Radium-226	<5.2E-01	1	UI			GP							pCi/L
Radium-228	2.4E+00	1				GP							pCi/L
Strontium-90	<6.9E-01	1	UI			GP							pCi/L
Technetium-99	8.9E+01	1		■		GP							pCi/L
Thorium-228	<1.5E-02	1	UI			GP							pCi/L
Thorium-230	2.4E-01	1				GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	9.7E-01												pCi/L
Total beta emitters	1.7E+02			■									pCi/L
Total radium	2.4E+00												pCi/L
Tritium	1.5E+03	1		■		GP	1.4E+03	1			■	GP	pCi/mL
Uranium-233/234	2.6E-01	1				GP							pCi/L
Uranium-235	<1.3E-01	1	UI			GP							pCi/L
Uranium-238	<0.0E+00	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB1)

SAMPLE DATE	01/29/98	04/13/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	200.8	201.0	ft msl
pH	7.4	7.4	pH
Sp. conductance	130	140	µS/cm
Water temperature	17.2	20.0	°C
Alkalinity as CaCO ₃	50	57	mg/L
Turbidity	1	0	NTU
Volumes purged	2.7	3.0	well vol
Sampling code			
Synchronous water level	201.2 (03/19/98)	200.5 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	22	1				WA							µg/L
Cadmium, total recoverable	0.47	1	JE			WA							µg/L
Chromium, total recoverable	2.9	1	JE			GE							µg/L
Cobalt, total recoverable	<4.5	1				WA							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	9.0	1	JE			GE							µg/L
Lead, total recoverable	2.4	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	250	1	V			GE	230	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.4	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<3.0	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<7.2	1	V			WA							µg/L
Dichloromethane	<1.4	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB130C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	2.4E+00	1	V			GP							pCi/L
Carbon-14	<1.7E+00	1	UI			GP							pCi/L
Cobalt-60	<8.1E-01	1	UI			GP							pCi/L
Curium-242	<0.0E+00	1	UI			TM							pCi/L
Curium-243/244	<1.3E-01	1	UI			TM							pCi/L
Curium-245/246	<7.7E-02	1	UI			GP							pCi/L
Gross alpha	<5.0E-03	1	UI			GP	<3.7E-01	1	UI			GP	pCi/L
Iodine-129	<5.2E-02	1	UI			GP							pCi/L
Nickel-63	<8.1E-01		UI										pCi/L
Nonvolatile beta	1.1E+00	1				GP	1.3E+00	1	J			GP	pCi/L
Plutonium-238	<2.0E-01	1	UI			GP							pCi/L
Plutonium-239/240	<3.0E-02	1	UI			GP							pCi/L
Radium-226	<1.7E-01	1	UI			GP							pCi/L
Radium-228	4.2E+00	1				GP							pCi/L
Strontium-90	<4.3E-02	1	UI			GP							pCi/L
Technetium-99	<1.7E+00	1	UI			GP							pCi/L
Thorium-228	<6.3E-02	1	UI			GP							pCi/L
Thorium-230	<1.9E-01	1	UI			TM							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	2.6E+00												pCi/L
Total beta emitters	4.2E+00												pCi/L
Total radium	4.2E+00												pCi/L
Tritium	1.0E+00	1				TM	<6.8E-01	1	UI			GP	pCi/mL
Uranium-233/234	2.5E-01	1				GP							pCi/L
Uranium-235	<0.0E+00	1	UJ			TM							pCi/L
Uranium-238	<3.1E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB130D

<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>Screen Zone</u>
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 (IIB2)

SAMPLE DATE	01/22/98	04/13/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	201.2	202.0	ft msl
pH	6.2	6.0	pH
Sp. conductance	100	78	µS/cm
Water temperature	19.0	19.0	°C
Alkalinity as CaCO ₃	36	34	mg/L
Turbidity	1	0	NTU
Volumes purged	3.3	5.3	well vol
Sampling code			
Synchronous water level	202.8 (03/19/98)	201.2 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	11	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.7	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	2.8	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	0.96	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	3.1	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	350	1	V			GE	170	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<15	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.2	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB130D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<5.6E-02	1	UI			GP							pCi/L
Carbon-14	<7.0E+00	1	UI			GP							pCi/L
Cobalt-60	<-1.5E-01	1	UI			GP							pCi/L
Curium-242	<4.0E-03	1	UI			GP							pCi/L
Curium-243/244	<-3.7E-02	1	UI			GP							pCi/L
Curium-245/246	4.0E-02	1				GP							pCi/L
Gross alpha	7.5E-01	1				GP	<4.6E-01	1	UI			GP	pCi/L
Iodine-129	<1.5E-01	1	UI			GP							pCi/L
Nickel-63	<-1.5E-01		UI										pCi/L
Nonvolatile beta	<9.0E-01	1	UI			GP	<1.1E+00	1	UI			GP	pCi/L
Plutonium-238	<1.0E-01	1	UI			GP							pCi/L
Plutonium-239/240	<3.0E-03	1	UI			GP							pCi/L
Radium-226	<3.2E-01	1	UI			GP							pCi/L
Radium-228	<-2.4E-01	1	UI			GP							pCi/L
Strontium-90	<7.0E-01	1	UI			GP							pCi/L
Technetium-99	<-3.4E+00	1	UI			GP							pCi/L
Thorium-228	<1.0E-01	1	UI			GP							pCi/L
Thorium-230	<1.2E-01	1	UI			GP							pCi/L
Thorium-232	<-1.5E-02	1	UI			GP							pCi/L
Total alpha emitters	1.4E-01												pCi/L
Total beta emitters													
Tritium	6.6E+00	1				GP	7.4E+00	1				GP	pCi/mL
Uranium-233/234	9.8E-02	1				GP							pCi/L
Uranium-235	<4.0E-02	1	UI			GP							pCi/L
Uranium-238	<4.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB1)

SAMPLE DATE	01/13/98	04/07/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	204.5	204.8	ft msl
pH	7.6	7.4	pH
Sp. conductance	140	170	µS/cm
Water temperature	18.0	19.0	°C
Alkalinity as CaCO ₃	100	79	mg/L
Turbidity	0	1	NTU
Volumes purged	3.4	3.2	well vol
Sampling code			
Synchronous water level	204.9 (03/19/98)	204.3 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	21	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.9	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	3,100	3				GE	3,100	3	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.2	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	3.7	1	JE			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.4	1	V			GE							µg/L
Tetrachloroethylene	0.82	1	JE			GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB131C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.2E-01	1	UI			GP							pCi/L
Carbon-14	8.3E+00	1				GP							pCi/L
Cobalt-60	<-6.7E-01	1	UI			GP							pCi/L
Curium-242	<-6.5E-02	1	UI			GP							pCi/L
Curium-243/244	<6.7E-02	1	UI			GP							pCi/L
Curium-245/246	<1.1E-01	1	UI			GP							pCi/L
Gross alpha	<1.6E-01	1	UI			GP	<2.0E-02	1	UI			GP	pCi/L
Iodine-129	<2.3E-01	1	UI			GP							pCi/L
Nickel-63	<-6.7E-01		UI										pCi/L
Nonvolatile beta	<1.1E+00	1	UJI			GP	1.3E+00	1				GP	pCi/L
Plutonium-238	<3.1E-01	1	UJI			GP							pCi/L
Plutonium-239/240	<2.7E-02	1	UI			GP							pCi/L
Radium-226	<4.2E-01	1	UI			GP							pCi/L
Radium-228	1.4E+00	1				GP							pCi/L
Strontium-90	<1.8E-01	1	UJI			GP							pCi/L
Technetium-99	<-1.2E+00	1	UI			GP							pCi/L
Thorium-228	<-6.2E-02	1	UI			GP							pCi/L
Thorium-230	<5.7E-02	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	9.7E+00												pCi/L
Total radium	1.4E+00												pCi/L
Tritium	1.5E+02	1		■		GP	1.4E+02	1		■		GP	pCi/mL
Uranium-233/234	<1.9E-02	1	UI			GP							pCi/L
Uranium-235	<-7.0E-03	1	UI			GP							pCi/L
Uranium-238	<-2.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE	01/13/98	04/07/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	205.5	206.6	ft msl
pH	5.2	4.5	pH
Sp. conductance	16	28	µS/cm
Water temperature	15.0	15.3	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	3	NTU
Volumes purged	7.5	4.1	well vol
Sampling code			
Synchronous water level	207.2 (03/19/98)	205.3 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	53	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.6	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	90	1				GE	170	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	2.7	1	JE			GE							µg/L
Zinc, total recoverable	1.4	1	JE			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.54	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB131D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.3E-01	1	UI			GP							pCi/L
Carbon-14	<1.1E+00	1	UI			GP							pCi/L
Cobalt-60	<7.1E-01	1	UI			GP							pCi/L
Curium-242	<3.2E-02	1	UI			GP							pCi/L
Curium-243/244	<4.5E-02	1	UI			GP							pCi/L
Curium-245/246	<5.9E-02	1	UI			GP							pCi/L
Gross alpha	1.0E+00	1				GP	9.1E-01	1	J2			GP	pCi/L
Iodine-129	<9.4E-02	1	UI			GP							pCi/L
Nickel-63	<7.1E-01		UI										pCi/L
Nonvolatile beta	2.5E+00	1	J			GP	2.5E+00	1				GP	pCi/L
Plutonium-238	7.3E-01	1	J			GP							pCi/L
Plutonium-239/240	3.7E-01	1				GP							pCi/L
Radium-226	3.5E-01	1	UIV			GP							pCi/L
Radium-228	2.5E+00	1				GP							pCi/L
Strontium-90	<2.3E-01	1	UJI			GP							pCi/L
Technetium-99	<-1.2E+01	1	UI			GP							pCi/L
Thorium-228	<-6.7E-02	1	UI			GP							pCi/L
Thorium-230	<-1.9E-01	1	UI			GP							pCi/L
Thorium-232	<2.7E-02	1	UI			GP							pCi/L
Total alpha emitters	1.1E+00												pCi/L
Total beta emitters	2.5E+00												pCi/L
Total radium	2.5E+00												pCi/L
Tritium	9.3E+00	1				GP	7.9E+00	1				GP	pCi/mL
Uranium-233/234	<1.3E-01	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<7.7E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB132C

<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>Screen Zone</u>
N71472.4 E58787.7	33.279768 °N 81.650835 °W	178.6-168.6 ft msl	240.5 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/21/98	04/07/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.3	222.7	ft msl
pH	5.8	5.1	pH
Sp. conductance	30	22	µS/cm
Water temperature	15.0	20.4	°C
Alkalinity as CaCO ₃	5	3	mg/L
Turbidity	2	1	NTU
Volumes purged	0.028	2.1	well vol
Sampling code	XN		
Synchronous water level	222.8 (03/18/98)	221.5 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	4.3	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.9	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	8.7	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<2.1	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	260	1	V			GE	80	1	V			GE	µg/L
Selenium, total recoverable	2.0	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.50	1	JE			GE							µg/L
Zinc, total recoverable	17	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<6.6	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB132C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.2E-02	1	UI			GP							pCi/L
Carbon-14	<5.3E+00	1	UI			GP							pCi/L
Cobalt-60	<5.7E-01	1	UI			GP							pCi/L
Curium-242	<5.0E-03	1	UI			GP							pCi/L
Curium-243/244	<6.5E-02	1	UI			GP							pCi/L
Curium-245/246	<4.0E-03	1	UI			GP							pCi/L
Gross alpha	<6.0E-01	1	UI			GP	<4.3E-01	1	UI			GP	pCi/L
Iodine-129	<4.9E-01	1	UI			GP							pCi/L
Nickel-63	<5.7E-01		UI										pCi/L
Nonvolatile beta	<4.4E-01	1	UI			GP	1.1E+00	1				GP	pCi/L
Plutonium-238	1.4E-01	1				GP							pCi/L
Plutonium-239/240	<9.0E-03	1	UI			GP							pCi/L
Radium-226	<4.4E-01	1	UI			GP							pCi/L
Radium-228	1.9E+00	1	UIV			GP							pCi/L
Strontium-90	<-2.6E-01	1	UI			GP							pCi/L
Technetium-99	<-2.3E+01	1	UI			GP							pCi/L
Thorium-228	<1.1E-01	1	UI			GP							pCi/L
Thorium-230	<5.5E-02	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	1.4E-01												
Total beta emitters													
Tritium	<2.1E-01	1	UI			GP	<4.1E-01	1	UI			GP	pCi/mL
Uranium-233/234	<2.4E-02	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<2.7E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71469.5 E58799.3	33.279780 °N 81.650798 °W	226.5-206.5 ft msl	240.7 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE	01/21/98	04/07/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	222.0	222.4	ft msl
pH	5.0	5.0	pH
Sp. conductance	28	27	µS/cm
Water temperature	17.2	18.3	°C
Alkalinity as CaCO ₃	1	1	mg/L
Turbidity	1	2	NTU
Volumes purged	3.4	3.3	well vol
Sampling code			
Synchronous water level	222.8 (03/18/98)	220.8 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	6.8	1				GE							µg/L
Cadmium, total recoverable	0.26	1	JE			GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	16	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<3.1	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	1,500	1	V			GE	780	1	V			GE	µg/L
Selenium, total recoverable	3.6	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	20	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<3.1	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB132D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.1E-02	1	UI			GP							pCi/L
Carbon-14	8.7E+00	1				GP							pCi/L
Cobalt-60	<8.5E-01	1	UI			GP							pCi/L
Curium-242	<3.0E-02	1	UI			GP							pCi/L
Curium-243/244	<-5.3E-04	1	UI			GP							pCi/L
Curium-245/246	<2.6E-02	1	UI			GP							pCi/L
Gross alpha	<5.2E-01	1	UI			GP	1.0E+00	1	J2			GP	pCi/L
Iodine-129	<-1.5E-01	1	UI			GP							pCi/L
Nickel-63	<8.5E-01		UI										pCi/L
Nonvolatile beta	<1.1E+00	1	UI			GP	1.3E+00	1				GP	pCi/L
Plutonium-238	<5.8E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-1.3E-02	1	UI			GP							pCi/L
Radium-226	9.1E-01	1				GP							pCi/L
Radium-228	2.1E+00	1	UIV			GP							pCi/L
Strontium-90	<-4.5E-01	1	UI			GP							pCi/L
Technetium-99	<-1.8E+01	1	UI			GP							pCi/L
Thorium-228	<-1.2E-01	1	UI			GP							pCi/L
Thorium-230	<1.3E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	8.7E+00												pCi/L
Total radium	9.1E-01												pCi/L
Tritium	1.3E+01	1				GP	1.6E+01	1				GP	pCi/mL
Uranium-233/234	<2.7E-02	1	UI			GP							pCi/L
Uranium-235	<1.0E-03	1	UI			GP							pCi/L
Uranium-238	<4.8E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB133C

<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>Screen Zone</u>
N71949.5 E59110.3	33.281349 °N 81.650912 °W	183.3-173.3 ft msl	255.6 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE	01/20/98	04/02/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	231.5	234.1	ft msl
pH	5.4	5.5	pH
Sp. conductance	33	35	µS/cm
Water temperature	17.3	19.0	°C
Alkalinity as CaCO ₃	5	8	mg/L
Turbidity	0	1	NTU
Volumes purged	2.4	2.5	well vol
Sampling code			
Synchronous water level	233.9 (03/18/98)	233.3 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	6.6	1				GE							µg/L
Cadmium, total recoverable	0.25	1	JE			GE							µg/L
Chromium, total recoverable	3.7	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	60	1				GE	80	1	J			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.9	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	7.2	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.59	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB133C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<5.2E-02	1	UI			GP							pCi/L
Carbon-14	1.1E+01	1				GP							pCi/L
Cobalt-60	<1.3E-01	1	UI			GP							pCi/L
Curium-242	<-1.0E-02	1	UI			GP							pCi/L
Curium-243/244	<1.5E-01	1	UI			GP							pCi/L
Curium-245/246	<4.4E-02	1	UI			GP							pCi/L
Gross alpha	<2.2E-01	1	UI			GP	<3.3E-01	1	UI			GP	pCi/L
Iodine-129	<2.2E-01	1	UI			GP							pCi/L
Nickel-63	<1.3E-01		UI										pCi/L
Nonvolatile beta	<3.5E-01	1	UI			GP	1.2E+00	1				GP	pCi/L
Plutonium-238	<1.7E-02	1	UI			GP							pCi/L
Plutonium-239/240	<2.8E-02	1	UI			GP							pCi/L
Radium-226	1.3E+00	1				GP							pCi/L
Radium-228	3.2E+00	1	UIV			GP							pCi/L
Strontium-90	1.4E+01	1		■		GP							pCi/L
Technetium-99	<-1.3E+01	1	UI			GP							pCi/L
Thorium-228	<8.8E-02	1	UI			GP							pCi/L
Thorium-230	<7.3E-02	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													pCi/L
Total beta emitters	2.5E+01												pCi/L
Total radium	1.3E+00												pCi/L
Tritium	<2.6E-01	1	UI			GP	<6.5E-02	1	UI			GP	pCi/mL
Uranium-233/234	<-3.0E-03	1	UI			GP							pCi/L
Uranium-235	<2.0E-02	1	UI			GP							pCi/L
Uranium-238	<2.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE 01/20/98 04/02/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	237.6	240.0	ft msl
pH	5.2	5.0	pH
Sp. conductance	51	43	µS/cm
Water temperature	16.9	16.5	°C
Alkalinity as CaCO ₃	7	5	mg/L
Turbidity	1	0	NTU
Volumes purged	2.6	3.9	well vol
Sampling code			
Synchronous water level	240.2 (03/18/98)	238.0 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	1.9	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.3	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	0.15	1	JE			GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	260	1				GE	480	1	J			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.8	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<2.2	1	JEV			GE							µg/L
<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>

Organic Constituents

Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.77	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB133D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.4E-01	1	UI			GP							pCi/L
Carbon-14	1.5E+01	1				GP							pCi/L
Cobalt-60	<2.4E+00	1	UI			GP							pCi/L
Curium-242	<2.2E-02	1	UI			GP							pCi/L
Curium-243/244	<5.3E-02	1	UI			GP							pCi/L
Curium-245/246	<0.0E+00	1	UI			GP							pCi/L
Gross alpha	<3.3E-01	1	UI			GP	9.0E-01	1				GP	pCi/L
Iodine-129	<-8.7E-02	1	UI			GP							pCi/L
Nickel-63	<2.4E+00		UI										pCi/L
Nonvolatile beta	<-2.6E-02	1	UI			GP	1.4E+00	1				GP	pCi/L
Plutonium-238	<2.1E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-2.0E-02	1	UI			GP							pCi/L
Radium-226	<3.6E-01	1	UI			GP							pCi/L
Radium-228	2.3E+00	1	UIV			GP							pCi/L
Strontium-90	<-1.3E-01	1	UI			GP							pCi/L
Technetium-99	<-9.6E+00	1	UI			GP							pCi/L
Thorium-228	<-3.6E-02	1	UI			GP							pCi/L
Thorium-230	1.5E-01	1				GP							pCi/L
Thorium-232	<-7.0E-03	1	UI			GP							pCi/L
Total alpha emitters	2.4E-01												pCi/L
Total beta emitters	1.5E+01												pCi/L
Tritium	1.6E+01	1				GP	2.0E+01	1				GP	pCi/mL
Uranium-233/234	9.3E-02	1				GP							pCi/L
Uranium-235	<1.9E-02	1	UI			GP							pCi/L
Uranium-238	<4.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB134C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71210.3 E58289.9	33.278376 °N 81.651636 °W	159.1-149.1 ft msl	238.4 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE 01/20/98 04/13/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	221.8	223.6	ft msl
pH	4.7	5.2	pH
Sp. conductance	30	40	µS/cm
Water temperature	17.9	20.5	°C
Alkalinity as CaCO ₃	4	6	mg/L
Turbidity	1	1	NTU
Volumes purged	3.0	2.2	well vol
Sampling code			
Synchronous water level	223.5 (03/18/98)	222.5 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	6.8	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	4.1	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.2	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	1,200	1				GE	1,200	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.9	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	7.0	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.69	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB134C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.9E-02	1	UI			GP							pCi/L
Carbon-14	9.4E+00	1				GP							pCi/L
Cobalt-60	<1.8E-01	1	UI			GP							pCi/L
Curium-242	<-3.0E-03	1	UI			GP							pCi/L
Curium-243/244	<5.4E-02	1	UI			GP							pCi/L
Curium-245/246	<9.0E-03	1	UI			GP							pCi/L
Gross alpha	7.6E-01	1				GP	6.6E-01	1				GP	pCi/L
Iodine-129	<2.9E-01	1	UI			GP							pCi/L
Nickel-63	<1.8E-01		UI										pCi/L
Nonvolatile beta	<6.4E-01	1	UI			GP	1.1E+00	1	J			GP	pCi/L
Plutonium-238	<8.0E-03	1	UI			GP							pCi/L
Plutonium-239/240	<-1.8E-02	1	UI			GP							pCi/L
Radium-226	5.0E-01	1	UIV			GP							pCi/L
Radium-228	2.2E+00	1	UIV			GP							pCi/L
Strontium-90	<3.6E-01	1	UI			GP							pCi/L
Technetium-99	<-1.9E+01	1	UI			GP							pCi/L
Thorium-228	<3.7E-02	1	UI			GP							pCi/L
Thorium-230	2.1E-01	1				GP							pCi/L
Thorium-232	<-9.0E-03	1	UI			GP							pCi/L
Total alpha emitters	2.1E-01												pCi/L
Total beta emitters	9.4E+00												pCi/L
Tritium	2.4E+01	1		■		GP	2.1E+01	1			■	GP	pCi/mL
Uranium-233/234	<8.0E-03	1	UI			GP							pCi/L
Uranium-235	<1.2E-02	1	UI			GP							pCi/L
Uranium-238	<1.2E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE	01/05/98	04/06/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	223.7	225.6	ft msl
pH	4.0	3.6	pH
Sp. conductance	160	86	µS/cm
Water temperature	19.0	20.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0	0	NTU
Volumes purged	6.0	2.5	well vol
Sampling code			
Synchronous water level	225.6 (03/18/98)	222.6 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	56	1				GE							µg/L
Cadmium, total recoverable	0.31	1	JE			GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	2.7	1	JE			GE							µg/L
Copper, total recoverable	4.4	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	0.75	1	JE			GE							µg/L
Mercury, total recoverable	0.86	1				GE	0.83	1				GE	µg/L
Nickel, total recoverable	3.3	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	13,000	20	V	■		GE	7,600	5				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5	1				GE							µg/L
Zinc, total recoverable	<4.9	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<9.8	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB134D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<5.3E-02	1	UI			GP							pCi/L
Carbon-14	<-8.0E-01	1	UI			GP							pCi/L
Cobalt-60	<2.2E+00	1	UI			GP							pCi/L
Curium-242	<1.3E-03	1	UI			GP							pCi/L
Curium-243/244	<-2.7E-02	1	UI			GP							pCi/L
Curium-245/246	<9.0E-02	1	UI			GP							pCi/L
Gross alpha	1.4E+01	1				GP	9.5E+00	1	J2			GP	pCi/L
Iodine-129	9.3E+00	1				GP							pCi/L
Nickel-63	<2.2E+00	1	UI			GP							pCi/L
Nonvolatile beta	6.8E+02	1		■		GP	6.0E+02	1		■		GP	pCi/L
Plutonium-238	<1.6E-01	1	UJI			GP							pCi/L
Plutonium-239/240	<1.0E-02	1	UI			GP							pCi/L
Radium-226	1.3E+00	1				GP							pCi/L
Radium-228	3.6E+01	1		■		GP							pCi/L
Strontium-90	3.8E+02	1		■		GP							pCi/L
Technetium-99	<1.2E+01	1	UI			GP							pCi/L
Thorium-228	<-8.2E-02	1	UI			GP							pCi/L
Thorium-230	<3.4E-02	1	UI			GP							pCi/L
Thorium-232	<-5.6E-02	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	4.2E+02	1		■									pCi/L
Total radium	3.7E+01			■									pCi/L
Tritium	8.3E+02	1		■		GP	3.5E+01	1		■		GP	pCi/mL
Uranium-233/234	<1.5E-01	1	UI			GP							pCi/L
Uranium-235	<-3.4E-02	1	UI			GP							pCi/L
Uranium-238	<1.7E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71390.2 E56560.8	33.275953 °N 81.656539 °W	157.3-147.3 ft msl	232 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE	01/20/98	04/06/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	207.5	208.3	ft msl
pH	7.5	8.2	pH
Sp. conductance	160	170	µS/cm
Water temperature	18.5	17.0	°C
Alkalinity as CaCO ₃	90	93	mg/L
Turbidity	10	6	NTU
Volumes purged	3.3	2.4	well vol
Sampling code			
Synchronous water level	208.27 (03/17/98)	207.6 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	28	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	4.5	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.4	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	510	1				GE	540	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	2.3	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	1.1	1	JE			GE							µg/L
Zinc, total recoverable	<1.9	1	JEV			GE							µg/L
<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>

Organic Constituents

Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.68	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB135C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<6.2E-02	1	UI			GP							pCi/L
Carbon-14	9.7E+00	1				GP							pCi/L
Cobalt-60	5.2E+00	1	R4			GP							pCi/L
Curium-242	<-1.5E-02	1	UI			GP							pCi/L
Curium-243/244	<9.5E-02	1	UI			GP							pCi/L
Curium-245/246	<1.0E-03	1	UI			GP							pCi/L
Gross alpha	<8.8E-01	1	UI			GP	<3.9E-01	1	UI			GP	pCi/L
Iodine-129	<6.7E-01	1	UI			GP							pCi/L
Nickel-63	5.2E+00		R4										pCi/L
Nonvolatile beta	<9.3E-01	1	UI			GP	3.5E+00	1				GP	pCi/L
Plutonium-238	<6.9E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-1.1E-02	1	UI			GP							pCi/L
Radium-226	<1.2E-01	1	UI			GP							pCi/L
Radium-228	1.7E+00	1	UIV			GP							pCi/L
Strontium-90	<6.4E-01	1	UII			GP							pCi/L
Technetium-99	<-1.5E+01	1	UI			GP							pCi/L
Thorium-228	<-3.1E-02	1	UI			GP							pCi/L
Thorium-230	<2.4E-01	1	UI			GP							pCi/L
Thorium-232	<-3.2E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	9.7E+00												pCi/L
Tritium	3.3E+01	1		■		GP	2.1E+01	1		■		GP	pCi/mL
Uranium-233/234	<5.0E-02	1	UI			GP							pCi/L
Uranium-235	<-1.2E-02	1	UI			GP							pCi/L
Uranium-238	<6.7E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB135D

<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>Screen Zone</u>
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 (IIB2)

SAMPLE DATE	01/20/98	04/06/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	219.0	219.7	ft msl
pH	4.8	6.0	pH
Sp. conductance	27	24	µS/cm
Water temperature	16.5	13.5	°C
Alkalinity as CaCO ₃	2	2	mg/L
Turbidity	1	1	NTU
Volumes purged	4.7	4.3	well vol
Sampling code			
Synchronous water level	219.8 (03/17/98)	218.4 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	0.96	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<0.85	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	0.21	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	1,000	1	V			GE	1,200	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	2.0	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	5.5	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.62	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB135D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<6.1E-02	1	UI			GP							pCi/L
Carbon-14	1.5E+01	1				GP							pCi/L
Cobalt-60	<3.2E+00	1	UI			GP							pCi/L
Curium-242	<-3.0E-02	1	UI			GP							pCi/L
Curium-243/244	<7.2E-02	1	UI			GP							pCi/L
Curium-245/246	<3.4E-02	1	UI			GP							pCi/L
Gross alpha	<3.8E-01	1	UI			GP	<4.2E-01	1	UI			GP	pCi/L
Iodine-129	<8.6E-01	1	UI			GP							pCi/L
Nickel-63	<3.1E+00	1	UI			GP							pCi/L
Nonvolatile beta	1.2E+00	1				GP	1.8E+00	1				GP	pCi/L
Plutonium-238	<-5.9E-02	1	UI			GP							pCi/L
Plutonium-239/240	<3.4E-02	1	UI			GP							pCi/L
Radium-226	<5.4E-01	1	UI			GP							pCi/L
Radium-228	1.8E+00	1	UIV			GP							pCi/L
Strontium-90	<-2.8E-01	1	UI			GP							pCi/L
Technetium-99	<-2.1E+01	1	UI			GP							pCi/L
Thorium-228	<-4.5E-02	1	UI			GP							pCi/L
Thorium-230	2.4E-01	1				GP							pCi/L
Thorium-232	<1.4E-02	1	UI			GP							pCi/L
Total alpha emitters	2.4E-01												pCi/L
Total beta emitters	1.5E+01												pCi/L
Tritium	1.9E+01	1				GP	2.1E+01	1		■		GP	pCi/mL
Uranium-233/234	<3.4E-02	1	UI			GP							pCi/L
Uranium-235	<2.0E-02	1	UI			GP							pCi/L
Uranium-238	<2.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71900.3 E55949.6	33.276084 °N 81.659139 °W	170.5-160.5 ft msl	227.9 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/28/98	04/28/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	218.4	220.7	ft msl
pH	6.2	6.0	pH
Sp. conductance	360	240	µS/cm
Water temperature	19.0	19.0	°C
Alkalinity as CaCO ₃	68	21	mg/L
Turbidity	1	1	NTU
Volumes purged	2.2	0.025	well vol
Sampling code		XN	
Synchronous water level	219.6 (03/19/98)	217.7 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	71	1				GE							µg/L
Cadmium, total recoverable	0.68	1	JE			GE							µg/L
Chromium, total recoverable	1.4	1	JE			GE							µg/L
Cobalt, total recoverable	1.5	1	JE			GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	0.12	1	E			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	3.0	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	36,000	20	V	■		GE	36,000	25		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	21	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1	J1		●	GE							µg/L
Dichloromethane	<3.8	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB136C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.2E-01	1	UI			GP							pCi/L
Carbon-14	1.9E+02	1		■		GP							pCi/L
Cobalt-60	<1.7E+00	1	UI			GP							pCi/L
Curium-242	<3.5E-02	1	UI			GP							pCi/L
Curium-243/244	<2.0E-01	1	UI			GP							pCi/L
Curium-245/246	<1.1E-01	1	UI			GP							pCi/L
Gross alpha	8.4E+00	1				GP	7.7E+00	1	UIV			GP	pCi/L
Iodine-129	6.1E+00	1				GP							pCi/L
Nickel-63	<1.7E+00		UI										pCi/L
Nonvolatile beta	7.9E+01	1		■		GP	8.8E+01	1	V	■		GP	pCi/L
Plutonium-238	9.2E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<1.4E-02	1	UI			GP							pCi/L
Radium-226	2.6E+00	1	UIV			GP							pCi/L
Radium-228	3.0E+00	1	UIV			GP							pCi/L
Strontium-90	<3.8E-01	1	UI			GP							pCi/L
Technetium-99	1.5E+02	1		■		GP							pCi/L
Thorium-228	<3.5E-02	1	UI			GP							pCi/L
Thorium-230	<1.7E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	3.4E+02			■									pCi/L
Tritium	6.6E+03	1		■		GP	5.4E+03	1		■		GP	pCi/mL
Uranium-233/234	<2.9E-01	1	UI			GP							pCi/L
Uranium-235	<4.0E-03	1	UI			GP							pCi/L
Uranium-238	<4.2E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB136D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71906.0 E55941.7	33.276084 °N 81.659171 °W	220.2-200.2 ft msl	228 ft msl	4" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/07/98	04/16/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	221.2	222.7	ft msl
pH	3.8	4.0	pH
Sp. conductance	200	300	µS/cm
Water temperature	19.0	15.0	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	2.3	2.2	well vol
Sampling code			
Synchronous water level	223.1 (03/19/98)	220.8 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	56	1				GE							µg/L
Cadmium, total recoverable	0.30	1	JE			GE							µg/L
Chromium, total recoverable	2.2	1	JE			GE							µg/L
Cobalt, total recoverable	4.5	1	JE	■		GE							µg/L
Copper, total recoverable	32	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	7.5	1				GE							µg/L
Mercury, total recoverable	0.42	1				GE	0.13	1	JE			GE	µg/L
Nickel, total recoverable	8.4	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	22,000	20	V	■		GE	29,000	25	V	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	67	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<13	1				GE							µg/L
Dichloromethane	<2.5	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB136D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<9.0E-03	1	UI			GP							pCi/L
Carbon-14	1.2E+02	1		■		GP							pCi/L
Cobalt-60	3.2E+01	1				GP							pCi/L
Curium-242	<-7.0E-04	1	UI			GP							pCi/L
Curium-243/244	<4.9E-02	1	UI			GP							pCi/L
Curium-245/246	8.1E-02	1	RUI4			GP							pCi/L
Gross alpha	2.4E+01	1		■		GP	3.2E+01	1		■		GP	pCi/L
Iodine-129	1.6E+01	1				GP							pCi/L
Nickel-63	3.2E+01												pCi/L
Nonvolatile beta	9.3E+02	1		■		GP	1.5E+03	1		■		GP	pCi/L
Plutonium-238	<8.6E-02	1	UI			GP							pCi/L
Plutonium-239/240	<2.3E-01	1	UI			GP							pCi/L
Radium-226	1.7E+01	1		■		GP							pCi/L
Radium-228	5.3E+00	1		■		GP							pCi/L
Strontium-90	4.7E+02	1		■		GP							pCi/L
Technetium-99	5.9E+01	1		■		GP							pCi/L
Thorium-228	<2.4E-01	1	UI			GP							pCi/L
Thorium-230	<8.2E-02	1	UI			GP							pCi/L
Thorium-232	<2.1E-02	1	UI			GP							pCi/L
Total alpha emitters	1.5E+00												pCi/L
Total beta emitters	7.3E+02			■									pCi/L
Total radium	2.3E+01												pCi/L
Tritium	1.8E+03	1		■		GP	4.1E+03	1		■		GP	pCi/mL
Uranium-233/234	1.1E+00	1				GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	4.6E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N72269.9 E55700.2	33.276494 °N 81.660513 °W	173.8-163.8 ft msl	236 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE	01/26/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	221.6	223.4	ft msl
pH	5.8	5.8	pH
Sp. conductance	540	380	µS/cm
Water temperature	19.0	20.0	°C
Alkalinity as CaCO ₃	8	9	mg/L
Turbidity	0	0	NTU
Volumes purged	2.0	2.2	well vol
Sampling code			
Synchronous water level	223.0 (03/18/98)	220.7 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	39	1				GE							µg/L
Cadmium, total recoverable	0.49	1	JE			GE							µg/L
Chromium, total recoverable	1.2	1	JE			GE							µg/L
Cobalt, total recoverable	0.68	1	JE			GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	0.22	1				GE	0.28	1				GE	µg/L
Nickel, total recoverable	3.3	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	45,000	40	V	■		GE	42,000	50		■		GE	µg/L
Selenium, total recoverable	1.8	1	JE			GE							µg/L
Silver, total recoverable	<2.3	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	26	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.92	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB137C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<6.7E-02	1	UI			GP							pCi/L
Carbon-14	1.1E+02	1		■		GP							pCi/L
Cobalt-60	<5.8E-01	1	UI			GP							pCi/L
Curium-242	<2.9E-02	1	UI			GP							pCi/L
Curium-243/244	<3.1E-02	1	UI			GP							pCi/L
Curium-245/246	<1.2E-01	1	UI			GP							pCi/L
Gross alpha	5.5E+00	1				GP	6.6E+00	1	UIV			GP	pCi/L
Iodine-129	1.1E+01	1	J			GP							pCi/L
Nickel-63	<5.8E-01		UI										pCi/L
Nonvolatile beta	7.2E+01	1		■		GP	7.9E+01	1	V	■		GP	pCi/L
Plutonium-238	<6.4E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-5.3E-02	1	UI			GP							pCi/L
Radium-226	<3.1E-01	1	UI			GP							pCi/L
Radium-228	1.8E+00	1				GP							pCi/L
Strontium-90	<7.3E-02	1	UJI			GP							pCi/L
Technetium-99	1.6E+02	1		■		GP							pCi/L
Thorium-228	<-2.1E-01	1	UI			GP							pCi/L
Thorium-230	<2.8E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	2.8E+02												pCi/L
Total radium	1.8E+00												pCi/L
Tritium	8.7E+03	1		■		GP	8.6E+03	1		■		GP	pCi/mL
Uranium-233/234	<-1.3E-02	1	UI			GP							pCi/L
Uranium-235	<-4.0E-03	1	UI			GP							pCi/L
Uranium-238	<1.4E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE	01/26/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	223.7	224.8	ft msl
pH	5.2	5.0	pH
Sp. conductance	100	140	µS/cm
Water temperature	17.0	19.0	°C
Alkalinity as CaCO ₃	3	2	mg/L
Turbidity	0	0	NTU
Volumes purged	4.1	6.7	well vol
Sampling code			
Synchronous water level	224.8 (03/18/98)	S (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	2.5	1	JE			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	10	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	1.1	1	JE			GE							µg/L
Copper, total recoverable	89	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	7.8	1	V			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	8,400	5	V			GE	14,000	10		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<2.0	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	96	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.2	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB137D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.9E-01	1	UI			GP							pCi/L
Carbon-14	<5.4E+00	1	UI			GP							pCi/L
Cobalt-60	<7.7E-01	1	UI			GP							pCi/L
Curium-242	<-3.8E-02	1	UI			GP							pCi/L
Curium-243/244	<-5.0E-02	1	UI			GP							pCi/L
Curium-245/246	<-1.6E-02	1	UI			GP							pCi/L
Gross alpha	3.0E+00	1				GP	2.9E+00	1	UIV			GP	pCi/L
Iodine-129	2.7E+00	1	R4			GP							pCi/L
Nickel-63	<7.7E-01	1	UI										pCi/L
Nonvolatile beta	5.6E+01	1		■		GP	4.2E+01	1	UIV			GP	pCi/L
Plutonium-238	<-3.4E-02	1	UI			GP							pCi/L
Plutonium-239/240	<1.6E-02	1	UI			GP							pCi/L
Radium-226	8.3E-01	1				GP							pCi/L
Radium-228	2.8E+00	1				GP							pCi/L
Strontium-90	1.5E+01	1	J	■		GP							pCi/L
Technetium-99	2.8E+01	1				GP							pCi/L
Thorium-228	<-6.7E-02	1	UI			GP							pCi/L
Thorium-230	<1.8E-01	1	UI			GP							pCi/L
Thorium-232	<1.2E-01	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	4.6E+01												pCi/L
Total radium	3.6E+00												pCi/L
Tritium	1.4E+03	1		■		GP	2.6E+03	1		■		GP	pCi/mL
Uranium-233/234	<6.6E-02	1	UI			GP							pCi/L
Uranium-235	<-9.9E-02	1	UI			GP							pCi/L
Uranium-238	<-4.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB138D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73160.2 E55260.7	33.277746 °N 81.663400 °W	228.1-208.1 ft msl	252.4 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE 01/22/98 04/20/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	224.9	228.3	ft msl
pH	6.4	7.6	pH
Sp. conductance	82	64	µS/cm
Water temperature	19.0	19	°C
Alkalinity as CaCO ₃	15	18	mg/L
Turbidity	6	8.9	NTU
Volumes purged	0.091	0.83	well vol
Sampling code	XN	XN	
Synchronous water level	228.1 (03/18/98)	225.3 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	4.8	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	0.98	1	JE			GE							µg/L
Cobalt, total recoverable	0.75	1	JE			GE							µg/L
Copper, total recoverable	40	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	17	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	3.3	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	830	1	V			GE	510	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	87	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.3	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB138D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.1E-02	1	UI			GP							pCi/L
Carbon-14	1.4E+01	1				GP							pCi/L
Cobalt-60	<7.6E-01	1	UI			GP							pCi/L
Curium-242	<3.7E-02	1	UI			GP							pCi/L
Curium-243/244	<9.0E-03	1	UI			GP							pCi/L
Curium-245/246	<1.4E-02	1	UI			GP							pCi/L
Gross alpha	8.2E-01	1				GP	5.9E-01	1				GP	pCi/L
Iodine-129	<1.7E-01	1	UI			GP							pCi/L
Nickel-63	<7.6E-01		UI										pCi/L
Nonvolatile beta	1.4E+00	1				GP	<5.6E-01	1	UI			GP	pCi/L
Plutonium-238	1.9E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<4.6E-02	1	UI			GP							pCi/L
Radium-226	4.7E-01	1	UIV			GP							pCi/L
Radium-228	<2.9E-01	1	UI			GP							pCi/L
Strontium-90	<2.6E-01	1	UI			GP							pCi/L
Technetium-99	<8.4E+00	1	UI			GP							pCi/L
Thorium-228	<5.4E-02	1	UI			GP							pCi/L
Thorium-230	<3.8E-02	1	UI			GP							pCi/L
Thorium-232	<4.3E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	1.4E+01												pCi/L
Tritium	2.9E+01	1			■	GP	1.7E+01	1				GP	pCi/mL
Uranium-233/234	<9.0E-03	1	UI			GP							pCi/L
Uranium-235	<2.7E-02	1	UI			GP							pCi/L
Uranium-238	<9.0E-03	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB139A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71127.4 E57365.4	33.276684 °N 81.653910 °W	97.6-87.6 ft msl	233.7 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	01/20/98	04/15/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	173.9	175.1	ft msl
pH	7.2	7.4	pH
Sp. conductance	220	190	µS/cm
Water temperature	18.0	19.0	°C
Alkalinity as CaCO ₃	120	95	mg/L
Turbidity	0	0	NTU
Volumes purged	2.3	2.5	well vol
Sampling code			
Synchronous water level	174.8 (03/18/98)	174.8 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	21	1				GE							µg/L
Cadmium, total recoverable	0.28	1	JE			GE							µg/L
Chromium, total recoverable	2.1	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	70	1				GE	90	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	2.2	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<1.9	1	JEV			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.71	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB139A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.2E-02	1	UI			GP							pCi/L
Carbon-14	<4.0E+00	1	UI			GP							pCi/L
Cobalt-60	<-1.2E-01	1	UI			GP							pCi/L
Curium-242	<-8.0E-03	1	UI			GP							pCi/L
Curium-243/244	<-5.0E-03	1	UI			GP							pCi/L
Curium-245/246	<7.0E-03	1	UI			GP							pCi/L
Gross alpha	1.4E+00	1				GP	9.9E-01	1	J			GP	pCi/L
Iodine-129	<4.5E-01	1	UI			GP							pCi/L
Nickel-63	<-1.2E-01		UI										pCi/L
Nonvolatile beta	<4.6E-01	1	UI			GP	<1.1E+00	1	UI			GP	pCi/L
Plutonium-238	<3.6E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-2.0E-03	1	UI			GP							pCi/L
Radium-226	<1.2E-01	1	UI			GP							pCi/L
Radium-228	2.5E+00	1	UIV			GP							pCi/L
Strontium-90	<-1.8E-01	1	UI			GP							pCi/L
Technetium-99	<-1.4E+01	1	UI			GP							pCi/L
Thorium-228	<-1.2E-01	1	UI			GP							pCi/L
Thorium-230	2.2E-01	1				GP							pCi/L
Thorium-232	<-9.0E-03	1	UI			GP							pCi/L
Total alpha emitters	4.5E-01												pCi/L
Total beta emitters													
Tritium	<3.1E-01	1	UI			GP	1.4E+00	1				GP	pCi/mL
Uranium-233/234	1.6E-01	1				GP							pCi/L
Uranium-235	<1.4E-02	1	UI			GP							pCi/L
Uranium-238	8.0E-02	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71129.8 E57374.5	33.276704 °N 81.653890 °W	158.5-148.5 ft msl	233.8 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/28/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	215.7	216.3	ft msl
pH	4.8	5.0	pH
Sp. conductance	300	320	µS/cm
Water temperature	18.0	19.0	°C
Alkalinity as CaCO ₃	3	6	mg/L
Turbidity	1	1	NTU
Volumes purged	0.023	0.022	well vol
Sampling code	XN	XN	
Synchronous water level	216.5 (03/18/98)	215.3 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	58	1				GE							µg/L
Cadmium, total recoverable	0.55	1	JE			GE							µg/L
Chromium, total recoverable	0.81	1	JE			GE							µg/L
Cobalt, total recoverable	5.7	1		■		GE							µg/L
Copper, total recoverable	2.1	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	4.8	1	JE			GE							µg/L
Mercury, total recoverable	2.3	1		■		GE	2.1	1		■		GE	µg/L
Nickel, total recoverable	8.5	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	34,000	20	V	■		GE	38,000	25		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	1,800	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1	J1		●	GE							µg/L
Dichloromethane	<2.6	1	JV			GE							µg/L
Tetrachloroethylene	6.7	1	J	■		GE							µg/L
Trichloroethylene	1.1	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB139C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.3E-02	1	UI			GP							pCi/L
Carbon-14	5.4E+01	1		■		GP							pCi/L
Cobalt-60	<2.3E+00	1	UI			GP							pCi/L
Curium-242	<6.3E-02	1	UI			GP							pCi/L
Curium-243/244	<8.5E-02	1	UI			GP							pCi/L
Curium-245/246	<2.0E-02	1	UI			GP							pCi/L
Gross alpha	3.1E+00	1				GP	3.6E+00	1	UIV			GP	pCi/L
Iodine-129	4.5E+00	1				GP							pCi/L
Nickel-63	<2.3E+00		UI										pCi/L
Nonvolatile beta	2.3E+01	1				GP	2.2E+01	1	UIV			GP	pCi/L
Plutonium-238	8.9E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<-1.0E-02	1	UI			GP							pCi/L
Radium-226	5.7E-01	1	UIV			GP							pCi/L
Radium-228	2.0E+00	1	UIV			GP							pCi/L
Strontium-90	<-3.9E-01	1	UI			GP							pCi/L
Technetium-99	4.3E+01	1				GP							pCi/L
Thorium-228	<2.8E-01	1	UI			GP							pCi/L
Thorium-230	3.4E-01	1	UIV			GP							pCi/L
Thorium-232	<-6.1E-02	1	UI			GP							pCi/L
Total alpha emitters				■									pCi/L
Total beta emitters	1.0E+02												pCi/L
Tritium	2.3E+03	1		■		GP	2.3E+03	1		■		GP	pCi/mL
Uranium-233/234	3.7E-01	1	UIV			GP							pCi/L
Uranium-235	<8.3E-02	1	UI			GP							pCi/L
Uranium-238	<1.2E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB139D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71133.2 E57384.4	33.276728 °N 81.653871 °W	226.7-206.7 ft msl	233.8 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE 01/14/98 04/15/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	223.5	225.5	ft msl
pH	5.0	5.3	pH
Sp. conductance	63	55	µS/cm
Water temperature	16.9	16.9	°C
Alkalinity as CaCO ₃	7	1	mg/L
Turbidity	1	5	NTU
Volumes purged	3.1	4.0	well vol
Sampling code			
Synchronous water level	225.7 (03/18/98)	222.4 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	25	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	20	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	2.6	1	JE			GE							µg/L
Mercury, total recoverable	<0.11	1	JEV			GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	4,300	3				GE	1,700	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.2	1	JE			GE							µg/L
Tin, total recoverable	<5.8	1	JEV			GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	40	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.54	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB139D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	4.7E-01	1	UIV			GP							pCi/L
Carbon-14	2.8E+01	1				GP							pCi/L
Cobalt-60	<1.6E+00	1	UI			GP							pCi/L
Curium-242	<7.0E-03	1	UI			GP							pCi/L
Curium-243/244	<1.0E-01	1	UI			GP							pCi/L
Curium-245/246	<4.2E-02	1	UI			GP							pCi/L
Gross alpha	3.4E+00	1				GP	1.2E+00	1	J			GP	pCi/L
Iodine-129	2.0E+00	1	R4			GP							pCi/L
Nickel-63	<1.6E+00		UI										pCi/L
Nonvolatile beta	4.1E+01	1				GP	3.4E+00	1				GP	pCi/L
Plutonium-238	<4.4E-04	1	UJI			GP							pCi/L
Plutonium-239/240	<5.2E-05	1	UI			GP							pCi/L
Radium-226	1.6E+00	1				GP							pCi/L
Radium-228	1.5E+00	1				GP							pCi/L
Strontium-90	7.3E+00	1				GP							pCi/L
Technetium-99	<2.0E+00	1	UI			GP							pCi/L
Thorium-228	<2.3E-01	1	UI			GP							pCi/L
Thorium-230	<1.1E-01	1	UI			GP							pCi/L
Thorium-232	<4.5E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	3.6E+01												pCi/L
Total radium	3.2E+00												pCi/L
Tritium	3.7E+02	1		■		GP	6.4E+01	1		■		GP	pCi/mL
Uranium-233/234	<4.8E-02	1	UI			GP							pCi/L
Uranium-235	<4.6E-02	1	UI			GP							pCi/L
Uranium-238	<2.6E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB140A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 01/14/98 04/06/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	175.4	176.8	ft msl
pH	6.3	6.5	pH
Sp. conductance	100	120	µS/cm
Water temperature	18.4	21.2	°C
Alkalinity as CaCO ₃	40	47	mg/L
Turbidity	0	1	NTU
Volumes purged	2.6	2.6	well vol
Sampling code			
Synchronous water level	176.7 (03/19/98)	176.7 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	46	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.2	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	1.1	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	20	1	JE			GE	<50	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.6	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.48	1	JE			GE							µg/L
Zinc, total recoverable	<1.3	1	JEV			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB140A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<8.9E-01	1	UI			GP							pCi/L
Carbon-14	<3.1E+00	1	UI			GP							pCi/L
Cobalt-60	<4.5E-02	1	UI			GP							pCi/L
Curium-242	<6.8E-02	1	UI			GP							pCi/L
Curium-243/244	<4.6E-02	1	UI			GP							pCi/L
Curium-245/246	<5.4E-02	1	UI			GP							pCi/L
Gross alpha	1.1E+00	1				GP	<5.5E-01	1	UI			GP	pCi/L
Iodine-129	<1.6E-02	1	UI			GP							pCi/L
Nickel-63	<4.5E-02		UI										pCi/L
Nonvolatile beta	1.2E+01	1				GP	1.5E+00	1				GP	pCi/L
Plutonium-238	<2.1E-01	1	UJI			GP							pCi/L
Plutonium-239/240	<1.1E-02	1	UI			GP							pCi/L
Radium-226	8.4E-01	1				GP							pCi/L
Radium-228	2.5E+00	1				GP							pCi/L
Strontium-90	2.5E+00	1				GP							pCi/L
Technetium-99	<4.7E+00	1	UI			GP							pCi/L
Thorium-228	<3.5E-02	1	UI			GP							pCi/L
Thorium-230	<7.6E-02	1	UI			GP							pCi/L
Thorium-232	<9.0E-03	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	5.0E+00												pCi/L
Total radium	3.3E+00												pCi/L
Tritium	<1.1E-01	1	UI			GP	<1.5E-01	1	UI			GP	pCi/mL
Uranium-233/234	<2.3E-02	1	UI			GP							pCi/L
Uranium-235	<2.1E-02	1	UI			GP							pCi/L
Uranium-238	<2.0E-03	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N70049.2 E56551.8	33.272972 °N 81.653958 °W	171.6-161.6 ft msl	235.6 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE 01/14/98 04/06/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	205.8	208.2	ft msl
pH	5.3	6.2	pH
Sp. conductance	21	24	µS/cm
Water temperature	18.1	20.1	°C
Alkalinity as CaCO ₃	1	4	mg/L
Turbidity	1	0	NTU
Volumes purged	4.2	2.6	well vol
Sampling code			
Synchronous water level	208.3 (03/19/98)	207.1 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	6.4	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.6	1	JE			GE							µg/L
Cobalt, total recoverable	0.77	1	JE			GE							µg/L
Copper, total recoverable	1.9	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	3.2	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	800	1				GE	590	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.4	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<14	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.42	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB140C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.5E-02	1	UI			GP							pCi/L
Carbon-14	<4.0E+00	1	UI			GP							pCi/L
Cobalt-60	<-5.3E-01	1	UI			GP							pCi/L
Curium-242	<8.1E-02	1	UI			GP							pCi/L
Curium-243/244	<1.0E-01	1	UI			GP							pCi/L
Curium-245/246	<-2.4E-02	1	UI			GP							pCi/L
Gross alpha	6.9E-01	1				GP	8.0E-01	1	J2			GP	pCi/L
Iodine-129	<5.2E-01	1	UI			GP							pCi/L
Nickel-63	<-5.3E-01		UI										pCi/L
Nonvolatile beta	6.8E+00	1				GP	1.2E+00	1				GP	pCi/L
Plutonium-238	<2.2E-01	1	UI			GP							pCi/L
Plutonium-239/240	<1.0E-03	1	UI			GP							pCi/L
Radium-226	1.1E+00	1				GP							pCi/L
Radium-228	2.4E+00	1				GP							pCi/L
Strontium-90	<-7.2E-01	1	UI			GP							pCi/L
Technetium-99	<-6.6E-01	1	UI			GP							pCi/L
Thorium-228	<3.2E-02	1	UI			GP							pCi/L
Thorium-230	<2.9E-02	1	UI			GP							pCi/L
Thorium-232	<-8.0E-03	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	2.4E+00												pCi/L
Total radium	3.5E+00												pCi/L
Tritium	2.9E+00	1				GP	3.4E+00	1				GP	pCi/mL
Uranium-233/234	<5.8E-02	1	UI			GP							pCi/L
Uranium-235	<-2.5E-02	1	UI			GP							pCi/L
Uranium-238	<7.1E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB140D

<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>Screen Zone</u>
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 (IIB2)

SAMPLE DATE 01/14/98 04/06/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	213.1	220.4	ft msl
pH	4.7	4.9	pH
Sp. conductance	17	21	µS/cm
Water temperature	18.4	20.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	0	NTU
Volumes purged	5.1	2.7	well vol
Sampling code			
Synchronous water level	221.3 (03/19/98)	217.5 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	3.6	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	4.0	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	2.4	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	570	1				GE	410	1				GE	µg/L
Selenium, total recoverable	<2.3	1	JEV			GE							µg/L
Silver, total recoverable	1.2	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<5.9	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.70	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB140D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.1E-02	1	UI			GP							pCi/L
Carbon-14	<7.1E-01	1	UI			GP							pCi/L
Cobalt-60	<9.3E-01	1	UI			GP							pCi/L
Curium-242	<2.0E-03	1	UI			GP							pCi/L
Curium-243/244	<5.3E-02	1	UI			GP							pCi/L
Curium-245/246	<1.0E-01	1	UI			GP							pCi/L
Gross alpha	1.5E+00	1				GP	1.2E+00	1	J2			GP	pCi/L
Iodine-129	<3.6E-02	1	UI			GP							pCi/L
Nickel-63	<9.3E-01		UI										pCi/L
Nonvolatile beta	4.2E+00	1				GP	1.5E+00	1				GP	pCi/L
Plutonium-238	5.0E-01	1				GP							pCi/L
Plutonium-239/240	<3.3E-02	1	UI			GP							pCi/L
Radium-226	<1.2E-01	1	UI			GP							pCi/L
Radium-228	2.8E+00	1				GP							pCi/L
Strontium-90	<3.8E-01	1	UI			GP							pCi/L
Technetium-99	<4.6E-01	1	UI			GP							pCi/L
Thorium-228	<4.4E-02	1	UI			GP							pCi/L
Thorium-230	<5.4E-02	1	UI			GP							pCi/L
Thorium-232	<1.1E-01	1	UI			GP							pCi/L
Total alpha emitters	5.0E-01												pCi/L
Total beta emitters	2.8E+00												pCi/L
Total radium	2.8E+00												pCi/L
Tritium	1.0E+01	1				GP	9.8E+00	1				GP	pCi/mL
Uranium-233/234	<7.1E-02	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<7.1E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB141A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 01/21/98 04/15/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	174.9	178.8	ft msl
pH	11.0	10.8	pH
Sp. conductance	1100	900	µS/cm
Water temperature	19.0	19.5	°C
Alkalinity as CaCO ₃	234	182	mg/L
Turbidity	0	0	NTU
Volumes purged	2.1	2.3	well vol
Sampling code			
Synchronous water level	178.3 (03/18/98)	176.0 (06/18/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	99	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	3.6	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.2	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	160	1	V			GE	70	1				GE	µg/L
Selenium, total recoverable	4.0	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	5.7	1			■	GE							µg/L
Zinc, total recoverable	<2.9	1	JEV			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<3.5	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB141A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<2.4E-02	1	UI			GP							pCi/L
Carbon-14	<5.6E+00	1	UI			GP							pCi/L
Cobalt-60	<3.6E-01	1	UI			GP							pCi/L
Curium-242	<-9.0E-03	1	UI			GP							pCi/L
Curium-243/244	<2.8E-02	1	UI			GP							pCi/L
Curium-245/246	<0.0E+00	1	UI			GP							pCi/L
Gross alpha	1.5E+00	1				GP	2.6E+00	1	J			GP	pCi/L
Iodine-129	<3.0E-01	1	UI			GP							pCi/L
Nickel-63	<3.6E-01		UI										pCi/L
Nonvolatile beta	2.4E+00	1				GP	4.2E+00	1				GP	pCi/L
Plutonium-238	<7.1E-02	1	UI			GP							pCi/L
Plutonium-239/240	<1.4E-02	1	UI			GP							pCi/L
Radium-226	4.5E-01	1	UIV			GP							pCi/L
Radium-228	2.0E+00	1	UIV			GP							pCi/L
Strontium-90	<1.1E+00	1	UI			GP							pCi/L
Technetium-99	<-1.2E+01	1	UI			GP							pCi/L
Thorium-228	<6.4E-02	1	UI			GP							pCi/L
Thorium-230	<7.4E-02	1	UI			GP							pCi/L
Thorium-232	<-1.3E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters													
Tritium	2.1E+00	1				GP	2.6E+00	1				GP	pCi/mL
Uranium-233/234	<-8.0E-03	1	UI			GP							pCi/L
Uranium-235	<-4.0E-03	1	UI			GP							pCi/L
Uranium-238	<0.0E+00	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB141CR

<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>Screen Zone</u>
N71226.7 E59167.2	33.279843 °N 81.649358 °W	162.1-152.1 ft msl	254.3 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	02/17/98	04/15/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	231.5	232.3	ft msl
pH	6.1	6.3	pH
Sp. conductance	25	23	µS/cm
Water temperature	19.5	19.4	°C
Alkalinity as CaCO ₃	3	8	mg/L
Turbidity	1	1	NTU
Volumes purged	2.7	2.4	well vol
Sampling code			
Synchronous water level	232.1 (03/18/98)	230.6 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	7.0	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.0	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	0.74	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	260	1				GE	160	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<8.1	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1	J			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB141CR (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	1.4E+00	1	UIV			GP							pCi/L
Carbon-14	<3.1E+00	1	UI			GP							pCi/L
Cobalt-60	<1.5E+00	1	UI			GP							pCi/L
Curium-242	<2.0E-02	1	UI			GP							pCi/L
Curium-243/244	<6.0E-03	1	UI			GP							pCi/L
Curium-245/246	<1.8E-01	1	UI			GP							pCi/L
Gross alpha	<2.6E-01	1	UI			GP	<5.0E-03	1	UI			GP	pCi/L
Iodine-129	<3.1E-02	1	UJI1			GP							pCi/L
Nickel-63	<1.5E+00		UI										pCi/L
Nonvolatile beta	<9.6E-01	1	UI			GP	<8.2E-01	1	UI			GP	pCi/L
Plutonium-238	4.5E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<3.3E-02	1	UI			GP							pCi/L
Radium-226	2.7E+00	1				GP							pCi/L
Radium-228	<8.7E-01	1	UJI			GP							pCi/L
Strontium-90	<1.4E-01	1	UI			GP							pCi/L
Technetium-99	<3.0E+00	1	UI			GP							pCi/L
Thorium-228	<1.6E-01	1	UI			GP							pCi/L
Thorium-230	2.9E-01	1				GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	2.9E-01												pCi/L
Total beta emitters													
Total radium	2.7E+00												pCi/L
Tritium	7.2E-01	1				GP	9.4E-01	1				GP	pCi/mL
Uranium-233/234	<1.7E-02	1	UI			GP							pCi/L
Uranium-235	<4.7E-02	1	UI			GP							pCi/L
Uranium-238	<5.5E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB141D

<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>Screen Zone</u>
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 (IIB2)

SAMPLE DATE 01/21/98 04/13/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	248.9	249.0	ft msl
pH	5.4	4.8	pH
Sp. conductance	28	20	µS/cm
Water temperature	22.0	19.1	°C
Alkalinity as CaCO ₃	5	4	mg/L
Turbidity	14	20	NTU
Volumes purged	3.3	2.8	well vol
Sampling code			
Synchronous water level	249.1 (03/18/98)	243.0 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	6.4	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	3.0	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	10	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<3.7	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	190	1	V			GE	160	1	V			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.68	1	JE			GE							µg/L
Zinc, total recoverable	13	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1	J1			GE							µg/L
Dichloromethane	<3.2	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB141D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<7.8E-02	1	UI			GP							pCi/L
Carbon-14	1.2E+01	1				GP							pCi/L
Cobalt-60	<3.4E-01	1	UI			GP							pCi/L
Curium-242	<-1.9E-02	1	UI			GP							pCi/L
Curium-243/244	<9.0E-03	1	UI			GP							pCi/L
Curium-245/246	<3.2E-02	1	UI			GP							pCi/L
Gross alpha	1.2E+00	1				GP	2.0E+00	1				GP	pCi/L
Iodine-129	<-1.5E-01	1	UI			GP							pCi/L
Nickel-63	<3.4E-01		UI										pCi/L
Nonvolatile beta	<2.5E-01	1	UI			GP	<9.1E-01	1	UI			GP	pCi/L
Plutonium-238	<1.0E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-1.0E-02	1	UI			GP							pCi/L
Radium-226	<4.7E-01	1	UI			GP							pCi/L
Radium-228	2.3E+00	1	UIV			GP							pCi/L
Strontium-90	<-5.6E-01	1	UI			GP							pCi/L
Technetium-99	<-1.9E+01	1	UI			GP							pCi/L
Thorium-228	<6.7E-02	1	UI			GP							pCi/L
Thorium-230	<1.8E-01	1	UI			GP							pCi/L
Thorium-232	<1.2E-01	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	1.2E+01												pCi/L
Tritium	1.3E+01	1				GP	1.3E+01	1				GP	pCi/mL
Uranium-233/234	<5.7E-02	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<6.8E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N73119.0 E53505.3	33.274791 °N 81.667942 °W	171.6-161.6 ft msl	204 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/22/98	04/16/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	199.1	199.3	ft msl
pH	5.4	4.7	pH
Sp. conductance	30	24	µS/cm
Water temperature	19.0	19.1	°C
Alkalinity as CaCO ₃	5	1	mg/L
Turbidity	1	2	NTU
Volumes purged	5.3	3.3	well vol
Sampling code			
Synchronous water level	199.3 (03/18/98)	197.9 (06/17/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	1.9	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	4.3	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	3.8	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	3.1	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	3.3	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	320	1	V			GE	330	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.48	1	JE			GE							µg/L
Zinc, total recoverable	<12	1	V			GE							µg/L
<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>

Organic Constituents

Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.3	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB142C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<-2.2E-02	1	UI			GP							pCi/L
Carbon-14	<3.5E+00	1	UI			GP							pCi/L
Cobalt-60	<9.4E-02	1	UI			GP							pCi/L
Curium-242	<-1.2E-02	1	UI			GP							pCi/L
Curium-243/244	<-8.0E-03	1	UI			GP							pCi/L
Curium-245/246	<1.7E-02	1	UI			GP							pCi/L
Gross alpha	5.7E-01	1				GP	<2.7E-01	1	UI			GP	pCi/L
Iodine-129	<-2.1E-01	1	UI			GP							pCi/L
Nickel-63	<9.4E-02		UI										pCi/L
Nonvolatile beta	<7.6E-01	1	UI			GP	<8.8E-01	1	UI			GP	pCi/L
Plutonium-238	1.2E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<-1.3E-02	1	UI			GP							pCi/L
Radium-226	<2.1E-01	1	UI			GP							pCi/L
Radium-228	2.4E+00	1				GP							pCi/L
Strontium-90	<1.7E-01	1	UJI			GP							pCi/L
Technetium-99	<-1.2E+01	1	UI			GP							pCi/L
Thorium-228	<-3.3E-02	1	UI			GP							pCi/L
Thorium-230	<1.8E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	2.4E+00												pCi/L
Total radium	2.4E+00												pCi/L
Tritium	5.6E+00	1				GP	5.9E+00	1				GP	pCi/mL
Uranium-233/234	<1.3E-02	1	UI			GP							pCi/L
Uranium-235	<-8.0E-03	1	UI			GP							pCi/L
Uranium-238	<1.7E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB142D

<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>Screen Zone</u>
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 (IIB2)

SAMPLE DATE	01/22/98	04/16/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	199.7	199.4	ft msl
pH	5.2	4.3	pH
Sp. conductance	72	45	µS/cm
Water temperature	19.0	17.5	°C
Alkalinity as CaCO ₃	4	0	mg/L
Turbidity	13	15	NTU
Volumes purged	0.15	0.0	well vol
Sampling code	XN	XN	
Synchronous water level	199.3 (03/18/98)	196.5 (06/17/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	24	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.7	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	28	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	5.8	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	3.3	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	90	1	V			GE	20	1	JE			GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.69	1	JE			GE							µg/L
Zinc, total recoverable	<16	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.1	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB142D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.3E-02	1	UI			GP							pCi/L
Carbon-14	<1.5E+00	1	UI			GP							pCi/L
Cobalt-60	<5.5E-01	1	UI			GP							pCi/L
Curium-242	<4.0E-03	1	UI			GP							pCi/L
Curium-243/244	<2.3E-02	1	UI			GP							pCi/L
Curium-245/246	<9.0E-03	1	UI			GP							pCi/L
Gross alpha	5.1E+00	1				GP	1.6E+00	1				GP	pCi/L
Iodine-129	<3.3E-01	1	UI			GP							pCi/L
Nickel-63	<5.5E-01		UI										pCi/L
Nonvolatile beta	5.7E+00	1				GP	2.3E+00	1				GP	pCi/L
Plutonium-238	<2.8E-02	1	UI			GP							pCi/L
Plutonium-239/240	<1.1E-02	1	UI			GP							pCi/L
Radium-226	<1.7E-01	1	UI			GP							pCi/L
Radium-228	3.2E+00	1				GP							pCi/L
Strontium-90	<4.3E-01	1	UJI			GP							pCi/L
Technetium-99	<7.7E+00	1	UI			GP							pCi/L
Thorium-228	<2.7E-01	1	UI			GP							pCi/L
Thorium-230	<2.7E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	3.2E+00												pCi/L
Total radium	3.2E+00												pCi/L
Tritium	1.7E+02	1		■		GP	3.1E+02	1		■		GP	pCi/mL
Uranium-233/234	<6.3E-02	1	UI			GP							pCi/L
Uranium-235	<4.0E-03	1	UI			GP							pCi/L
Uranium-238	<2.5E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB143C

<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>Screen Zone</u>
N73738.2 E52773.2	33.274966 °N 81.671072 °W	179.1-169.1 ft msl	222.2 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/26/98	04/15/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	209.7	211.7	ft msl
pH	5.0	4.5	pH
Sp. conductance	42	42	µS/cm
Water temperature	18.5	19.1	°C
Alkalinity as CaCO ₃	4	1	mg/L
Turbidity	0	0	NTU
Volumes purged	3.9	3.7	well vol
Sampling code			
Synchronous water level	211.5 (03/23/98)	210.0 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	6.2	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	560	1	V			GE	520	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<6.5	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.7	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB143C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<-4.5E-02	1	UI			GP							pCi/L
Carbon-14	<-2.9E+00	1	UI			GP							pCi/L
Cobalt-60	<9.7E-01	1	UI			GP							pCi/L
Curium-242	<8.1E-02	1	UI			GP							pCi/L
Curium-243/244	<9.8E-02	1	UI			GP							pCi/L
Curium-245/246	3.8E-01	1				GP							pCi/L
Gross alpha	<2.2E-01	1	UI			GP	9.1E-01	1	J			GP	pCi/L
Iodine-129	2.5E+00	1				GP							pCi/L
Nickel-63	<9.7E-01		UI										pCi/L
Nonvolatile beta	<-3.5E-01	1	UJI			GP	<2.6E-01	1	UI			GP	pCi/L
Plutonium-238	<1.5E-02	1	UI			GP							pCi/L
Plutonium-239/240	<5.6E-02	1	UI			GP							pCi/L
Radium-226	<3.1E-01	1	UI			GP							pCi/L
Radium-228	3.3E+00	1	J			GP							pCi/L
Strontium-90	<6.4E-01	1	UI			GP							pCi/L
Technetium-99	<1.2E+01	1	UI			GP							pCi/L
Thorium-228	<1.4E-01	1	UI			GP							pCi/L
Thorium-230	<1.6E-01	1	UI			GP							pCi/L
Thorium-232	<-1.5E-02	1	UI			GP							pCi/L
Total alpha emitters	3.8E-01												pCi/L
Total beta emitters	5.8E+00												pCi/L
Total radium	3.3E+00												pCi/L
Tritium	6.7E+00	1				GP	7.1E+00	1				GP	pCi/mL
Uranium-233/234	<0.0E+00	1	UI			GP							pCi/L
Uranium-235	<4.8E-02	1	UI			GP							pCi/L
Uranium-238	<4.8E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB143D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 (IIB2)

SAMPLE DATE 01/28/98 04/15/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	214.5	215.9	ft msl
pH	4.8	4.3	pH
Sp. conductance	19	18	µS/cm
Water temperature	13.9	18.4	°C
Alkalinity as CaCO ₃	1	0	mg/L
Turbidity	1	2	NTU
Volumes purged	5.4	3.6	well vol
Sampling code			
Synchronous water level	215.9 (03/23/98)	214.0 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	8.5	1				WA							µg/L
Cadmium, total recoverable	<0.30	1	JEV			GE							µg/L
Chromium, total recoverable	<1.9	1	V			WA							µg/L
Cobalt, total recoverable	<4.5	1				WA							µg/L
Copper, total recoverable	4.5	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	1.5	1	JE			GE							µg/L
Mercury, total recoverable	0.59	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	100	1	V			GE	350	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<3.0	1	JEV			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<0.91	0.5	JV			• WA							µg/L
Dichloromethane	<1.6	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB143D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<-1.3E-02	1	UI			GP							pCi/L
Carbon-14	<9.2E-01	1	UI			GP							pCi/L
Cobalt-60	<2.9E-02	1	UI			GP							pCi/L
Curium-242	<0.0E+00	1	UI			TM							pCi/L
Curium-243/244	<0.0E+00	1	UI			TM							pCi/L
Curium-245/246	<9.0E-03	1	UI			GP							pCi/L
Gross alpha	1.3E+00	1				TM	1.6E+00	1	J			GP	pCi/L
Iodine-129	<-1.3E-01	1	UI			GP							pCi/L
Nickel-63	<2.9E-02		UI										pCi/L
Nonvolatile beta	3.2E+00	1	J			TM	<8.5E-01	1	UI			GP	pCi/L
Plutonium-238	7.4E-01	1				TM							pCi/L
Plutonium-239/240	<0.0E+00	1	UI			TM							pCi/L
Radium-226	1.1E+00	1				TM							pCi/L
Radium-228	4.0E+00	1				GP							pCi/L
Strontium-90	<0.0E+00	1	UI			TM							pCi/L
Technetium-99	2.2E+01	1				TM							pCi/L
Thorium-228	<1.0E-02	1	UI			TM							pCi/L
Thorium-230	<-1.2E-02	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			TM							pCi/L
Total alpha emitters	1.0E+00												pCi/L
Total beta emitters	2.6E+01												pCi/L
Total radium	5.2E+00				■								pCi/L
Tritium	1.3E+01	1				TM	9.9E+00	1				GP	pCi/mL
Uranium-233/234	<3.4E-02	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			TM							pCi/L
Uranium-238	2.7E-01	1				TM							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB144A

<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>Screen Zone</u>
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 01/22/98 04/16/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	170.8	171.9	ft msl
pH	6.8	6.8	pH
Sp. conductance	120	140	µS/cm
Water temperature	19.0	21.0	°C
Alkalinity as CaCO ₃	71	77	mg/L
Turbidity	2	1	NTU
Volumes purged	3.6	4.9	well vol
Sampling code			
Synchronous water level	171.7 (03/17/98)	171.7 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	3.2	1	JE			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	28	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.1	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	2.6	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	960	1	V			GE	500	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	1.0	1	JE			GE							µg/L
Zinc, total recoverable	<11	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.7	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB144A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<3.8E-02	1	UI			GP							pCi/L
Carbon-14	<4.5E+00	1	UI			GP							pCi/L
Cobalt-60	<-2.6E-01	1	UI			GP							pCi/L
Curium-242	<-8.0E-03	1	UI			GP							pCi/L
Curium-243/244	<-5.3E-02	1	UI			GP							pCi/L
Curium-245/246	<1.7E-02	1	UI			GP							pCi/L
Gross alpha	1.3E+00	1	UIV			GP	8.0E-01	1				GP	pCi/L
Iodine-129	4.1E-01	1	R4			GP							pCi/L
Nickel-63	<-2.6E-01		UI										pCi/L
Nonvolatile beta	2.2E+00	1	J			GP	3.3E+00	1				GP	pCi/L
Plutonium-238	<1.2E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-1.0E-03	1	UI			GP							pCi/L
Radium-226	<3.1E-01	1	UI			GP							pCi/L
Radium-228	1.8E+00	1				GP							pCi/L
Strontium-90	<6.1E-01	1	UJI			GP							pCi/L
Technetium-99	<-1.4E+01	1	UI			GP							pCi/L
Thorium-228	<-2.8E-01	1	UI			GP							pCi/L
Thorium-230	<2.1E-01	1	UI			GP							pCi/L
Thorium-232	<8.6E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	1.8E+00												pCi/L
Total radium	1.8E+00												pCi/L
Tritium	4.5E+01	1		■		GP	1.6E+02	1		■		GP	pCi/mL
Uranium-233/234	<5.1E-02	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<4.7E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB145C

<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>Screen Zone</u>
N71098.9 E57769.0	33.277280 °N 81.652792 °W	174.7-164.7 ft msl	235.7 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/22/98	04/23/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	214.6	215.5	ft msl
pH	5.2	5.8	pH
Sp. conductance	310	320	µS/cm
Water temperature	18.5	19.0	°C
Alkalinity as CaCO ₃	14	17	mg/L
Turbidity	1	3	NTU
Volumes purged	2.5	2.9	well vol
Sampling code			
Synchronous water level	215.6 (03/18/98)	214.3 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	120	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.1	1	JE			GE							µg/L
Cobalt, total recoverable	1.1	1	JE			GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	1.7	1	JE			GE							µg/L
Mercury, total recoverable	0.95	1				GE	1.0	1				GE	µg/L
Nickel, total recoverable	6.4	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	33,000	20	V	■		GE	33,000	50	V	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	33	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.7	1	V			GE							µg/L
Tetrachloroethylene	13	1	J	■		GE							µg/L
Trichloroethylene	15	1	J	■		GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB145C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<1.6E-02	1	UI			GP							pCi/L
Carbon-14	8.0E+01	1		■		GP							pCi/L
Cobalt-60	<6.1E-01	1	UI			GP							pCi/L
Curium-242	<-1.6E-02	1	UI			GP							pCi/L
Curium-243/244	<6.0E-03	1	UI			GP							pCi/L
Curium-245/246	<1.3E-02	1	UI			GP							pCi/L
Gross alpha	7.8E+00	1	V			GP	1.7E+00	1	J			GP	pCi/L
Iodine-129	2.0E+00	1				GP							pCi/L
Nickel-63	<6.1E-01		UI										pCi/L
Nonvolatile beta	3.9E+01	1	J			GP	3.5E+01	1	J			GP	pCi/L
Plutonium-238	1.4E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<-3.0E-03	1	UI			GP							pCi/L
Radium-226	9.1E-01	1				GP							pCi/L
Radium-228	4.6E+00	1				GP							pCi/L
Strontium-90	4.2E+00	1	J			GP							pCi/L
Technetium-99	4.3E+01	1				GP							pCi/L
Thorium-228	<1.0E-01	1	UI			GP							pCi/L
Thorium-230	<6.3E-02	1	UI			GP							pCi/L
Thorium-232	<-1.3E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	1.3E+02			■									pCi/L
Total radium	5.5E+00												pCi/L
Tritium	1.4E+03	1		■		GP	1.5E+03	1		■		GP	pCi/mL
Uranium-233/234	<5.7E-04	1	UI			GP							pCi/L
Uranium-235	<1.5E-02	1	UI			GP							pCi/L
Uranium-238	<-1.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB145D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71088.0 E57753.9	33.277231 °N 81.652810 °W	194.2-184.2 ft msl	236.2 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE 01/07/98 04/27/98

FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	222.2	223.1	ft msl
pH	4.4	4.1	pH
Sp. conductance	240	230	µS/cm
Water temperature	19.0	19.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	1	NTU
Volumes purged	2.9	2.5	well vol
Sampling code			
Synchronous water level	223.5 (03/18/98)	219.9 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<2.5	1	JEV			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	180	1				GE							µg/L
Cadmium, total recoverable	0.87	1	JE			GE							µg/L
Chromium, total recoverable	0.86	1	JE			GE							µg/L
Cobalt, total recoverable	17	1		■		GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	3.1	1		■		GE	2.7	1		■		GE	µg/L
Nickel, total recoverable	9.6	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	27,000	20	V	■		GE	28,000	25		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	0.71	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	25	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<2.4	1	V			GE							µg/L
Tetrachloroethylene	0.61	1	JE			GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB145D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	5.6E-01	1				GP							pCi/L
Carbon-14	1.5E+02	1		■		GP							pCi/L
Cobalt-60	<2.0E+00	1	UI			GP							pCi/L
Curium-242	<-3.7E-02	1	UI			GP							pCi/L
Curium-243/244	<2.0E-02	1	UI			GP							pCi/L
Curium-245/246	7.3E-01	1	R4			GP							pCi/L
Gross alpha	3.3E+01	1		■		GP	3.7E+01	1	V	■		GP	pCi/L
Iodine-129	1.3E+01	1				GP							pCi/L
Nickel-63	<2.0E+00		UI										pCi/L
Nonvolatile beta	5.3E+02	1		■		GP	5.3E+02	1	V	■		GP	pCi/L
Plutonium-238	<2.3E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-1.8E-02	1	UI			GP							pCi/L
Radium-226	1.2E+01	1		■		GP							pCi/L
Radium-228	4.7E+00	1				GP							pCi/L
Strontium-90	2.4E+02	1		■		GP							pCi/L
Technetium-99	4.2E+01	1				GP							pCi/L
Thorium-228	<2.9E-01	1	UI			GP							pCi/L
Thorium-230	<0.0E+00	1	UI			GP							pCi/L
Thorium-232	<-9.0E-03	1	UI			GP							pCi/L
Total alpha emitters	2.6E+00												pCi/L
Total beta emitters	4.4E+02			■									pCi/L
Total radium	1.6E+01												pCi/L
Tritium	2.2E+03	1		■		GP	2.0E+03	1		■		GP	pCi/mL
Uranium-233/234	1.8E+00	1				GP							pCi/L
Uranium-235	<9.0E-03	1	UI			GP							pCi/L
Uranium-238	2.9E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N70478.9 E58454.0	33.277026 °N 81.649784 °W	95.5-85.5 ft msl	251.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 01/15/98 04/28/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	175.8	177.1	ft msl
pH	6.1	7.2	pH
Sp. conductance	150	160	µS/cm
Water temperature	18.2	19.7	°C
Alkalinity as CaCO ₃	72	77	mg/L
Turbidity	0	1	NTU
Volumes purged	2.7	2.4	well vol
Sampling code			
Synchronous water level	177.1 (03/19/98)	177.0 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	36	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.4	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	20	1	JE			GE	10	1	JE			GE	µg/L
Selenium, total recoverable	1.7	1	JE			GE							µg/L
Silver, total recoverable	<1.2	1	JEV			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<1.0	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.0	1				GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB146A (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<8.2E-02	1	UI			GP							pCi/L
Carbon-14	<-3.6E+00	1	UI			GP							pCi/L
Cobalt-60	<4.0E-01	1	UI			GP							pCi/L
Curium-242	<-2.7E-02	1	UI			GP							pCi/L
Curium-243/244	<-1.9E-02	1	UI			GP							pCi/L
Curium-245/246	<1.9E-02	1	UI			GP							pCi/L
Gross alpha	5.3E-01	1				GP	<6.0E-01	1	UI			GP	pCi/L
Iodine-129	<6.6E-01	1	UI			GP							pCi/L
Nickel-63	<4.0E-01		UI										pCi/L
Nonvolatile beta	9.5E-01	1				GP	1.2E+00	1				GP	pCi/L
Plutonium-238	<3.5E-01	1	UI			GP							pCi/L
Plutonium-239/240	<2.1E-02	1	UI			GP							pCi/L
Radium-226	<3.1E-01	1	UI			GP							pCi/L
Radium-228	2.2E+00	1				GP							pCi/L
Strontium-90	<-2.7E-01	1	UI			GP							pCi/L
Technetium-99	<-4.8E+00	1	UI			GP							pCi/L
Thorium-228	<8.7E-02	1	UI			GP							pCi/L
Thorium-230	<1.7E-01	1	UI			GP							pCi/L
Thorium-232	<-1.2E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	2.2E+00												pCi/L
Total radium	2.2E+00												pCi/L
Tritium	<-1.6E-02	1	UI			GP	<1.2E-01	1	UI			GP	pCi/mL
Uranium-233/234	<9.6E-02	1	UI			GP							pCi/L
Uranium-235	<-8.0E-03	1	UI			GP							pCi/L
Uranium-238	<-8.0E-03	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N70471.6 E58473.1	33.277041 °N 81.649719 °W	162.3-152.3 ft msl	252.3 ft msl	4" PVC	S	Barnwell (IIB1)

SAMPLE DATE	01/26/98	04/28/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	202.7	211.4	ft msl
pH	8.6	7.9	pH
Sp. conductance	58	56	µS/cm
Water temperature	18.3	19.0	°C
Alkalinity as CaCO ₃	12	18	mg/L
Turbidity	0	1	NTU
Volumes purged	2.6	2.5	well vol
Sampling code			
Synchronous water level	211.9 (03/19/98)	210.6 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	31	1				WA							µg/L
Cadmium, total recoverable	<4.7	1				WA							µg/L
Chromium, total recoverable	1.4	1	JE			GE							µg/L
Cobalt, total recoverable	<4.5	1				WA							µg/L
Copper, total recoverable	1.6	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.5	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	600	1	V			GE	630	1				GE	µg/L
Selenium, total recoverable	2.2	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	1.2	1	JE			WA							µg/L
Zinc, total recoverable	<2.0	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<1.9	1	V			WA							µg/L
Dichloromethane	<1.7	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB146C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.9E-01	1	UI			GP							pCi/L
Carbon-14	<2.1E-01	1	UI			GP							pCi/L
Cobalt-60	<3.1E-01	1	UI			GP							pCi/L
Curium-242	<1.6E-02	1	UI			GP							pCi/L
Curium-243/244	<7.0E-02	1	UI			TM							pCi/L
Curium-245/246	<6.3E-02	1	UI			GP							pCi/L
Gross alpha	1.7E+00	1				TM	<5.9E-02	1	UI			GP	pCi/L
Iodine-129	<1.7E-01	1	UI			GP							pCi/L
Nickel-63	<3.1E-01		UI										pCi/L
Nonvolatile beta	1.1E+00	1				GP	<6.9E-01	1	UI			GP	pCi/L
Plutonium-238	<1.9E-01	1	UI			TM							pCi/L
Plutonium-239/240	<3.7E-02	1	UI			GP							pCi/L
Radium-226	4.3E-01	1				GP							pCi/L
Radium-228	4.8E+00	1	J			GP							pCi/L
Strontium-90	<0.0E+00	1	UI			TM							pCi/L
Technetium-99	<9.7E-01	1	UI			TM							pCi/L
Thorium-228	<1.0E-02	1	UI			TM							pCi/L
Thorium-230	7.4E-01	1				GP							pCi/L
Thorium-232	<1.5E-02	1	UI			GP							pCi/L
Total alpha emitters	1.8E+00												pCi/L
Total beta emitters	4.8E+00												pCi/L
Total radium	5.2E+00												pCi/L
Tritium	1.1E+01	1				TM	9.5E+00	1				GP	pCi/mL
Uranium-233/234	1.1E+00	1	V			GP							pCi/L
Uranium-235	<0.0E+00	1	UJI			TM							pCi/L
Uranium-238	<0.0E+00	1	UI			TM							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE	01/21/98	04/28/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	226.3	229.0	ft msl
pH	4.5	5.4	pH
Sp. conductance	15	21	µS/cm
Water temperature	17.3	19.2	°C
Alkalinity as CaCO ₃	1	0	mg/L
Turbidity	1	1	NTU
Volumes purged	4.0	3.1	well vol
Sampling code			
Synchronous water level	231.8 (03/19/98)	225.9 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	5.8	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	6.2	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<2.6	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	560	1	V			GE	490	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	17	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1	J1			GE							µg/L
Dichloromethane	<3.2	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB146D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.5E-02	1	UI			GP							pCi/L
Carbon-14	1.1E+01	1				GP							pCi/L
Cobalt-60	<2.4E-01	1	UI			GP							pCi/L
Curium-242	<2.3E-02	1	UI			GP							pCi/L
Curium-243/244	<-3.0E-03	1	UI			GP							pCi/L
Curium-245/246	<1.5E-02	1	UI			GP							pCi/L
Gross alpha	7.6E-01	1				GP	<6.2E-01	1	UI			GP	pCi/L
Iodine-129	<-8.8E-02	1	UI			GP							pCi/L
Nickel-63	<2.4E-01		UI										pCi/L
Nonvolatile beta	<7.3E-01	1	UI			GP	<2.3E-01	1	UI			GP	pCi/L
Plutonium-238	<5.3E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-3.0E-03	1	UI			GP							pCi/L
Radium-226	<2.0E-01	1	UI			GP							pCi/L
Radium-228	1.8E+00	1	UIV			GP							pCi/L
Strontium-90	<3.4E-01	1	UI			GP							pCi/L
Technetium-99	<-1.4E+01	1	UI			GP							pCi/L
Thorium-228	<1.4E-02	1	UI			GP							pCi/L
Thorium-230	<1.5E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	1.1E+01												pCi/L
Tritium	1.3E+01	1				GP	7.3E+00	1				GP	pCi/mL
Uranium-233/234	<2.0E-03	1	UI			GP							pCi/L
Uranium-235	<8.0E-03	1	UI			GP							pCi/L
Uranium-238	<6.0E-03	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB147D

<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>Screen Zone</u>
N73827.9 E55804.4	33.280110 °N 81.663265 °W	235.2-215.2 ft msl	267.3 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE	01/23/98	04/23/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	229.8	234.5	ft msl
pH	5.1	5.2	pH
Sp. conductance	40	28	µS/cm
Water temperature	17.2	16	°C
Alkalinity as CaCO ₃	2	2	mg/L
Turbidity	20	36.4	NTU
Volumes purged	0.10	0.79	well vol
Sampling code	XN	XN	
Synchronous water level	233.6 (03/19/98)	233.2 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable													
Arsenic, total recoverable													
Barium, total recoverable													
Cadmium, total recoverable													
Chromium, total recoverable													
Cobalt, total recoverable													
Copper, total recoverable													
Cyanide	<10	1				GE							µg/L
Lead, total recoverable													
Mercury, total recoverable							<0.20	1				GE	µg/L
Nickel, total recoverable													
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	270	1	V			GE	410	1	V			GE	µg/L
Selenium, total recoverable													
Silver, total recoverable													
Tin, total recoverable													
Vanadium, total recoverable													
Zinc, total recoverable													

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.75	1	JEV			GE							µg/L
Tetrachloroethylene	5.8	1		■		GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB147D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<3.6E-01	1	UI			GP							pCi/L
Carbon-14	<4.0E+00	1	UI			GP							pCi/L
Cobalt-60	<-1.0E+00	1	UI			GP							pCi/L
Curium-242	<3.7E-01	1	UI			GP							pCi/L
Curium-243/244	<4.1E-02	1	UI			GP							pCi/L
Curium-245/246	<-5.7E-02	1	UI			GP							pCi/L
Gross alpha	<4.2E-01	1	UI			GP	2.5E+00	1	J			GP	pCi/L
Iodine-129	<2.8E-01	1	UI			GP							pCi/L
Nickel-63	<-1.0E+00		UI										pCi/L
Nonvolatile beta	1.1E+00	1	J			GP	1.7E+00	1	J			GP	pCi/L
Plutonium-238	<4.4E-01	1	UI			GP							pCi/L
Plutonium-239/240	<-6.3E-02	1	UI			GP							pCi/L
Radium-226	<6.0E-02	1	UI			GP							pCi/L
Radium-228	4.1E+00	1				GP							pCi/L
Strontium-90	<7.1E-02	1	UI			GP							pCi/L
Technetium-99	<-8.8E+00	1	UI			GP							pCi/L
Thorium-228	<1.9E-01	1	UI			GP							pCi/L
Thorium-230	<2.1E-01	1	UI			GP							pCi/L
Thorium-232	<6.9E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	4.1E+00												pCi/L
Total radium	4.1E+00												pCi/L
Tritium	9.0E+00	1				GP	9.2E+00	1				GP	pCi/mL
Uranium-233/234	<4.3E-02	1	UI			GP							pCi/L
Uranium-235	<1.6E-01	1	UI			GP							pCi/L
Uranium-238	<-1.8E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
 ● = exceeded holding time.
 ■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB148C

<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>Screen Zone</u>
N70151.5 E55344.2	33.271228 °N 81.657336 °W	168.9-158.9 ft msl	250.9 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE 01/19/98 04/27/98

FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	201.9	202.7	ft msl
pH	9.4	7.0	pH
Sp. conductance	95	160	µS/cm
Water temperature	13.5	18.5	°C
Alkalinity as CaCO ₃	26	47	mg/L
Turbidity	1	1	NTU
Volumes purged	0.18	0.14	well vol
Sampling code	XN	XN	
Synchronous water level	203.0 (03/19/98)	202.2 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	39	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	4.4	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	8.8	1	JE			GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	460	1				GE	520	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	1.9	1	JE			GE							µg/L
Zinc, total recoverable	<3.1	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<0.85	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB148C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<1.1E-02	1	UI			GP							pCi/L
Carbon-14	<-4.7E+00	1	UI			GP							pCi/L
Cobalt-60	<1.8E+00	1	UI			GP							pCi/L
Curium-242	<1.0E-03	1	UI			GP							pCi/L
Curium-243/244	<-4.6E-02	1	UI			GP							pCi/L
Curium-245/246	<6.9E-02	1	UI			GP							pCi/L
Gross alpha	<3.3E-01	1	UI			GP	1.1E+00	1				GP	pCi/L
Iodine-129	<1.8E-01	1	UI			GP							pCi/L
Nickel-63	<1.8E+00		UI										pCi/L
Nonvolatiles beta	2.5E+00	1				GP	2.3E+00	1				GP	pCi/L
Plutonium-238	7.2E-01	1				GP							pCi/L
Plutonium-239/240	<-3.6E-02	1	UI			GP							pCi/L
Radium-226	4.1E-01	1	UIV			GP							pCi/L
Radium-228	1.8E+00	1				GP							pCi/L
Strontium-90	<2.3E-01	1	UI			GP							pCi/L
Technetium-99	<-5.6E+00	1	UI			GP							pCi/L
Thorium-228	<1.5E-01	1	UI			GP							pCi/L
Thorium-230	4.2E-01	1				GP							pCi/L
Thorium-232	<-3.4E-02	1	UI			GP							pCi/L
Total alpha emitters	1.1E+00												pCi/L
Total beta emitters	1.8E+00												pCi/L
Total radium	1.8E+00												pCi/L
Tritium	2.1E+00	1				GP	1.4E+00	1				GP	pCi/mL
Uranium-233/234	<3.7E-02	1	UI			GP							pCi/L
Uranium-235	<0.0E+00	1	UI			GP							pCi/L
Uranium-238	<0.0E+00	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE	01/19/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	213.6	217.3	ft msl
pH	6.3	6.9	pH
Sp. conductance	120	120	µS/cm
Water temperature	16.2	18.5	°C
Alkalinity as CaCO ₃	62	58	mg/L
Turbidity	4	11	NTU
Volumes purged	0.30	0.079	well vol
Sampling code	XN	XN	
Synchronous water level	218.3 (03/19/98)	215.3 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	27	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	3.5	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	5.8	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	6.9	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	2.6	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	120	1	V			GE	60	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	3.4	1	JE			GE							µg/L
Zinc, total recoverable	27	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	59	1				GE							µg/L
Dichloromethane	<0.97	1	JEV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB148D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<3.6E-02	1	UI			GP							pCi/L
Carbon-14	<-3.3E+00	1	UI			GP							pCi/L
Cobalt-60	<5.3E-01	1	UI			GP							pCi/L
Curium-242	<3.2E-02	1	UI			GP							pCi/L
Curium-243/244	<2.7E-02	1	UI			GP							pCi/L
Curium-245/246	<1.0E-02	1	UI			GP							pCi/L
Gross alpha	8.9E-01	1				GP	3.1E+00	1				GP	pCi/L
Iodine-129	<-5.3E-01	1	UI			GP							pCi/L
Nickel-63	<5.3E-01		UI										pCi/L
Nonvolatile beta	2.3E+00	1				GP	4.6E+00	1				GP	pCi/L
Plutonium-238	<8.2E-02	1	UI			GP							pCi/L
Plutonium-239/240	<-2.0E-03	1	UI			GP							pCi/L
Radium-226	<5.0E-01	1	UI			GP							pCi/L
Radium-228	1.9E+00	1				GP							pCi/L
Strontium-90	<-1.7E-01	1	UI			GP							pCi/L
Technetium-99	<-8.5E+00	1	UI			GP							pCi/L
Thorium-228	<3.7E-02	1	UI			GP							pCi/L
Thorium-230	<5.0E-03	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	3.1E-01												pCi/L
Total beta emitters	1.9E+00												pCi/L
Total radium	1.9E+00												pCi/L
Tritium	1.1E+01	1				GP	9.8E+00	1				GP	pCi/mL
Uranium-233/234	1.6E-01	1				GP							pCi/L
Uranium-235	<1.0E-03	1	UI			GP							pCi/L
Uranium-238	1.6E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB149D

<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>Screen Zone</u>
N71338.8 E57286.3	33.277023 °N 81.654529 °W	227.0-207.0 ft msl	240 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE	01/13/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	223.9	225.9	ft msl
pH	3.1	7.2	pH
Sp. conductance	18	17	µS/cm
Water temperature	18.1	18.8	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	2	NTU
Volumes purged	7.0	6.0	well vol
Sampling code			
Synchronous water level	226.4 (03/18/98)	223.9 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	3.4	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.6	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	3.1	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	380	1				GE	60	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	10	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.1	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB149D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	6.3E-01	1	UIV			GP							pCi/L
Carbon-14	<0.0E+00	1	UI			GP							pCi/L
Cobalt-60	<8.6E-01	1	UI			GP							pCi/L
Curium-242	<5.4E-02	1	UI			GP							pCi/L
Curium-243/244	<1.0E-01	1	UI			GP							pCi/L
Curium-245/246	<-1.7E-02	1	UI			GP							pCi/L
Gross alpha	<3.6E-01	1	UI			GP	4.7E-01	1				GP	pCi/L
Iodine-129	<-3.7E-01	1	UI			GP							pCi/L
Nickel-63	<8.6E-01	1	UI										pCi/L
Nonvolatile beta	1.5E+00	1	J			GP	1.1E+00	1				GP	pCi/L
Plutonium-238	4.9E-01	1	UJIV			GP							pCi/L
Plutonium-239/240	<-3.7E-02	1	UI			GP							pCi/L
Radium-226	8.6E-01	1				GP							pCi/L
Radium-228	<7.1E-01	1	UI			GP							pCi/L
Strontium-90	<-1.0E-01	1	UJI			GP							pCi/L
Technetium-99	<-8.4E+00	1	UI			GP							pCi/L
Thorium-228	<-5.2E-02	1	UI			GP							pCi/L
Thorium-230	<2.0E-01	1	UI			GP							pCi/L
Thorium-232	<2.6E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters													
Total radium	8.6E-01												pCi/L
Tritium	4.5E+01	1			■	GP	1.5E+01	1				GP	pCi/mL
Uranium-233/234	<0.0E+00	1	UI			GP							pCi/L
Uranium-235	<-1.7E-02	1	UI			GP							pCi/L
Uranium-238	<-9.0E-03	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</u>
N71692.6 E58692.8	33.280100 °N 81.651512 °W	226.9-206.9 ft msl	239 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE	01/22/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	232.8	229.9	ft msl
pH	4.8	6.7	pH
Sp. conductance	32	25	µS/cm
Water temperature	16.9	18.0	°C
Alkalinity as CaCO ₃	5	0	mg/L
Turbidity	13	4	NTU
Volumes purged	3.9	5.6	well vol
Sampling code			
Synchronous water level	232.4 (03/18/98)	226.0 (06/18/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	7.2	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	36	1				GE							µg/L
Cobalt, total recoverable	0.71	1	JE			GE							µg/L
Copper, total recoverable	5.5	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	20	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	70	1	V			GE	<50	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	1.2	1	JE			GE							µg/L
Zinc, total recoverable	<4.8	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<2.3	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB150D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<2.2E-02	1	UI			GP							pCi/L
Carbon-14	<-2.9E+00	1	UI			GP							pCi/L
Cobalt-60	<-1.3E+00	1	UI			GP							pCi/L
Curium-242	<1.7E-02	1	UI			GP							pCi/L
Curium-243/244	<-3.2E-02	1	UI			GP							pCi/L
Curium-245/246	<-4.0E-03	1	UI			GP							pCi/L
Gross alpha	<3.3E-01	1	UI			GP	<3.7E-01	1	UI			GP	pCi/L
Iodine-129	<-1.8E-01	1	UI			GP							pCi/L
Nickel-63	<-1.3E+00		UI										pCi/L
Nonvolatile beta	<4.3E-01	1	UJI			GP	<6.5E-01	1	UI			GP	pCi/L
Plutonium-238	<9.4E-02	1	UI			GP							pCi/L
Plutonium-239/240	<3.5E-02	1	UI			GP							pCi/L
Radium-226	5.6E-01	1				GP							pCi/L
Radium-228	3.5E+00	1				GP							pCi/L
Strontium-90	<-1.5E-01	1	UJI			GP							pCi/L
Technetium-99	<-1.5E+01	1	UI			GP							pCi/L
Thorium-228	<-6.5E-02	1	UI			GP							pCi/L
Thorium-230	<2.0E-01	1	UI			GP							pCi/L
Thorium-232	<6.7E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	3.5E+00												pCi/L
Total radium	4.1E+00												pCi/L
Tritium	2.0E+01	1		■		GP	1.5E+01	1				GP	pCi/mL
Uranium-233/234	<-8.0E-03	1	.UI			GP							pCi/L
Uranium-235	<1.7E-02	1	UI			GP							pCi/L
Uranium-238	<3.1E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB1)

SAMPLE DATE	01/21/98	04/23/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	209.2	209.3	ft msl
pH	4.9	4.8	pH
Sp. conductance	70	86	µS/cm
Water temperature	17.5	16.8	°C
Alkalinity as CaCO ₃	1	2	mg/L
Turbidity	1	1	NTU
Volumes purged	3.2	3.2	well vol
Sampling code			
Synchronous water level	209.7 (03/18/98)	207.1 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	20	1				GE							µg/L
Cadmium, total recoverable	0.27	1	JE			GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	2.8	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<2.3	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	8,700	5	V			GE	8,300	5	V			GE	µg/L
Selenium, total recoverable	2.2	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<4.3	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<3.5	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB151C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<9.0E-03	1	UI			GP							pCi/L
Carbon-14	2.7E+01	1				GP							pCi/L
Cobalt-60	3.1E+00	1	R4			GP							pCi/L
Curium-242	<-1.3E-02	1	UI			GP							pCi/L
Curium-243/244	<-4.5E-02	1	UI			GP							pCi/L
Curium-245/246	<3.3E-02	1	UI			GP							pCi/L
Gross alpha	1.5E+00	1				GP	1.4E+00	1	J			GP	pCi/L
Iodine-129	<-9.9E-02	1	UI			GP							pCi/L
Nickel-63	3.1E+00		R4										pCi/L
Nonvolatile beta	1.0E+01	1				GP	7.8E+00	1	J			GP	pCi/L
Plutonium-238	4.8E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<8.0E-03	1	UI			GP							pCi/L
Radium-226	<5.5E-01	1	UI			GP							pCi/L
Radium-228	4.4E+00	1	UIV			GP							pCi/L
Strontium-90	<-2.4E-01	1	UI			GP							pCi/L
Technetium-99	<1.3E+01	1	UI			GP							pCi/L
Thorium-228	<-1.8E-02	1	UI			GP							pCi/L
Thorium-230	<-3.0E-03	1	UI			GP							pCi/L
Thorium-232	<-7.0E-03	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	2.7E+01												pCi/L
Tritium	1.0E+03	1		■		GP	1.0E+03	1		■		GP	pCi/mL
Uranium-233/234	<1.7E-02	1	UI			GP							pCi/L
Uranium-235	<5.3E-02	1	UI			GP							pCi/L
Uranium-238	<3.2E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE	01/21/98	04/23/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	209.0	208.7	ft msl
pH	5.0	5.2	pH
Sp. conductance	15	16	µS/cm
Water temperature	13.1	14.9	°C
Alkalinity as CaCO ₃	1	1	mg/L
Turbidity	6	3	NTU
Volumes purged	3.2	3.8	well vol
Sampling code			
Synchronous water level	209.4 (03/18/98)	206.0 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	5.1	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	5.8	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.0	1	JEV			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	520	1	V			GE	370	1	V			GE	µg/L
Selenium, total recoverable	1.8	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	20	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<3.6	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB151D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<7.9E-02	1	UI			GP							pCi/L
Carbon-14	9.1E+00	1				GP							pCi/L
Cobalt-60	<8.2E-01	1	UI			GP							pCi/L
Curium-242	<1.4E-01	1	UI			GP							pCi/L
Curium-243/244	<2.4E-02	1	UI			GP							pCi/L
Curium-245/246	<4.1E-02	1	UI			GP							pCi/L
Gross alpha	<4.0E-01	1	UI			GP	<3.0E-01	1		UJI		GP	pCi/L
Iodine-129	<1.1E-01	1	UI			GP							pCi/L
Nickel-63	<8.2E-01		UI										pCi/L
Nonvolatile beta	1.5E+00	1				GP	<1.1E+00	1		UJI		GP	pCi/L
Plutonium-238	3.0E-01	1	UIV			GP							pCi/L
Plutonium-239/240	<-3.4E-04	1	UI			GP							pCi/L
Radium-226	<2.0E-01	1	UI			GP							pCi/L
Radium-228	1.7E+00	1	UIV			GP							pCi/L
Strontium-90	<-1.9E-01	1	UI			GP							pCi/L
Technetium-99	<-1.1E+01	1	UI			GP							pCi/L
Thorium-228	<-3.0E-02	1	UI			GP							pCi/L
Thorium-230	7.1E-01	1				GP							pCi/L
Thorium-232	2.9E-01	1				GP							pCi/L
Total alpha emitters	1.0E+00												pCi/L
Total beta emitters	9.1E+00												pCi/L
Tritium	2.2E+01	1		■		GP	2.6E+01	1			■	GP	pCi/mL
Uranium-233/234	<5.0E-03	1	UI			GP							pCi/L
Uranium-235	<4.8E-02	1	UI			GP							pCi/L
Uranium-238	<2.0E-03	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB152C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72012.0 E54346.7	33.273716 °N 81.663576 °W	183.1-173.1 ft msl	214.1 ft msl	4" PVC	S	Bamwell (IIB1)

SAMPLE DATE	01/21/98	04/23/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	199.6	199.7	ft msl
pH	5.4	4.6	pH
Sp. conductance	100	120	µS/cm
Water temperature	16.6	18.0	°C
Alkalinity as CaCO ₃	1	0	mg/L
Turbidity	0	1	NTU
Volumes purged	3.5	7.0	well vol
Sampling code			
Synchronous water level	199.8 (03/23/98)	198.9 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Inorganic Constituents													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	38	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	2.2	1	JE			GE							µg/L
Copper, total recoverable	1.9	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<1.1	1	JEV			GE							µg/L
Mercury, total recoverable	0.34	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	3.2	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	11,000	20	V	■		GE	11,000	5	V	■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	15	1	V			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<3.4	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB152C (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<7.3E-02	1	UI			GP							pCi/L
Carbon-14	1.2E+02	1		■		GP							pCi/L
Cobalt-60	<1.0E+00	1	UI			GP							pCi/L
Curium-242	<-9.0E-03	1	UI			GP							pCi/L
Curium-243/244	<-4.0E-03	1	UI			GP							pCi/L
Curium-245/246	<1.9E-02	1	UI			GP							pCi/L
Gross alpha	1.6E+00	1				GP	1.2E+00	1	J			GP	pCi/L
Iodine-129	1.7E+00	1	R4			GP							pCi/L
Nickel-63	<1.0E+00		UI										pCi/L
Nonvolatile beta	2.9E+01	1				GP	2.2E+01	1	J			GP	pCi/L
Plutonium-238	<7.1E-02	1	UI			GP							pCi/L
Plutonium-239/240	<1.5E-02	1	UI			GP							pCi/L
Radium-226	<2.5E-01	1	UI			GP							pCi/L
Radium-228	4.7E+00	1				GP							pCi/L
Strontium-90	<3.1E-01	1	UJI			GP							pCi/L
Technetium-99	6.3E+01	1		■		GP							pCi/L
Thorium-228	<-1.1E-01	1	UI			GP							pCi/L
Thorium-230	<1.3E-01	1	UI			GP							pCi/L
Thorium-232	<-1.4E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	1.9E+02			■									pCi/L
Total radium	4.7E+00												pCi/L
Tritium	1.1E+03	1		■		GP	1.1E+03	1		■		GP	pCi/mL
Uranium-233/234	<1.3E-02	1	UI			GP							pCi/L
Uranium-235	<1.3E-02	1	UI			GP							pCi/L
Uranium-238	<2.0E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB152D

<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>Screen Zone</u>
N72011.7 E54362.1	33.273740 °N 81.663535 °W	207.0-197.0 ft msl	214.1 ft msl	4" PVC	S	Water Table (IIB2)

SAMPLE DATE	01/21/98	04/23/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	206.1	205.1	ft msl
pH	5.3	5.0	pH
Sp. conductance	24	30	µS/cm
Water temperature	14.0	19.0	°C
Alkalinity as CaCO ₃	2	1	mg/L
Turbidity	97	68.1	NTU
Volumes purged	0.84	2.1	well vol
Sampling code	XN	XN	
Synchronous water level	206.7 (03/23/98)	S (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	2.0	1	JE			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	29	1				GE							µg/L
Cadmium, total recoverable	0.30	1	JE			GE							µg/L
Chromium, total recoverable	13	1	V			GE							µg/L
Cobalt, total recoverable													
Copper, total recoverable													
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	21	1		■		GE							µg/L
Mercury, total recoverable	0.73	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable													
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	80	1	V			GE	<20	1	JEV			GE	µg/L
Selenium, total recoverable	1.6	1	JE			GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	4.2	1	JE	■		GE							µg/L
Zinc, total recoverable	42	1				GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<3.4	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB152D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	<4.5E-02	1	UI			GP							pCi/L
Carbon-14	<7.3E+00	1	UI			GP							pCi/L
Cobalt-60	<-4.5E-01	1	UI			GP							pCi/L
Curium-242	<4.0E-03	1	UI			GP							pCi/L
Curium-243/244	<-4.0E-03	1	UI			GP							pCi/L
Curium-245/246	<1.9E-02	1	UI			GP							pCi/L
Gross alpha	2.8E+00	1				GP	9.7E+00	1	J			GP	pCi/L
Iodine-129	<-1.8E-02	1	UI			GP							pCi/L
Nickel-63	<-4.5E-01		UI										pCi/L
Nonvolatile beta	3.9E+00	1				GP	5.7E+00	1	J			GP	pCi/L
Plutonium-238	1.3E-01	1	UIV			GP							pCi/L
Plutonium-239/240	3.5E-02	1				GP							pCi/L
Radium-226	6.7E-01	1	UIV			GP							pCi/L
Radium-228	4.8E+00	1				GP							pCi/L
Strontium-90	<1.7E-01	1	UII			GP							pCi/L
Technetium-99	<-8.0E+00	1	UI			GP							pCi/L
Thorium-228	<-2.1E-01	1	UI			GP							pCi/L
Thorium-230	<2.8E-01	1	UI			GP							pCi/L
Thorium-232	<0.0E+00	1	UI			GP							pCi/L
Total alpha emitters	3.5E-02												pCi/L
Total beta emitters	4.8E+00												pCi/L
Total radium	4.8E+00												pCi/L
Tritium	1.4E+01	1				GP	1.7E+01	1				GP	pCi/mL
Uranium-233/234	<3.9E-02	1	UI			GP							pCi/L
Uranium-235	<-7.0E-03	1	UI			GP							pCi/L
Uranium-238	<1.2E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 1D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N72179.6 E58925.0	33.281556 °N 81.651846 °W	239.8-219.8 ft msl	264 ft msl	2" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/28/98	04/28/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	237.4	240.4	ft msl
pH	4.6	3.7	pH
Sp. conductance	54	58	µS/cm
Water temperature	19.9	21.4	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0	0	NTU
Volumes purged	8.0	7.4	well vol
Sampling code			
Synchronous water level	240.4 (03/17/98)	238.9 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	2.3	1	JE			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	24	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	3.9	1	JE			GE							µg/L
Cobalt, total recoverable	0.94	1	JE			GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	1.1	1	JE			GE							µg/L
Mercury, total recoverable	0.70	1				GE	0.24	1				GE	µg/L
Nickel, total recoverable	3.1	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	2,100	2	V			GE	2,800	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<2.1	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<2.1	1	V			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 1D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<2.0E-03	1	UI			GP							pCi/L
Carbon-14	<2.1E+00	1	UI			GP							pCi/L
Cobalt-60	<1.9E-01	1	UI			GP							pCi/L
Curium-242	<-9.0E-03	1	UI			GP							pCi/L
Curium-243/244	<4.3E-02	1	UI			GP							pCi/L
Curium-245/246	<1.8E-02	1	UI			GP							pCi/L
Gross alpha	3.3E+00	1				GP	2.7E+00	1				GP	pCi/L
Iodine-129	<4.4E-01	1	UI			GP							pCi/L
Nickel-63	<1.9E-01		UI										pCi/L
Nonvolatile beta	1.2E+01	1	J			GP	1.3E+01	1				GP	pCi/L
Plutonium-238	<9.6E-02	1	UI			GP							pCi/L
Plutonium-239/240	9.4E-02	1				GP							pCi/L
Radium-226	2.1E+00	1				GP							pCi/L
Radium-228	5.7E+00	1		■		GP							pCi/L
Strontium-90	5.1E+00	1				GP							pCi/L
Technetium-99	<5.2E+00	1	UI			GP							pCi/L
Thorium-228	<6.9E-02	1	UI			GP							pCi/L
Thorium-230	<6.9E-02	1	UI			GP							pCi/L
Thorium-232	<-1.9E-02	1	UI			GP							pCi/L
Total alpha emitters	9.4E-02												pCi/L
Total beta emitters	1.1E+01												pCi/L
Total radium	7.8E+00												pCi/L
Tritium	4.1E+01	1		■		GP	8.9E+01	1		■		GP	pCi/mL
Uranium-233/234	<8.5E-02	1	UI			GP							pCi/L
Uranium-235	<3.6E-02	1	UI			GP							pCi/L
Uranium-238	<1.3E-01	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 2D

<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>Screen Zone</u>
N72190.8 E59423.5	33.282394 °N 81.650556 °W	245.3-225.2 ft msl	265.5 ft msl	2" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/29/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	244.3	246.5	ft msl
pH	4.7	6.7	pH
Sp. conductance	48	57	µS/cm
Water temperature	19.3	19.5	°C
Alkalinity as CaCO ₃	4	1	mg/L
Turbidity	1	0	NTU
Volumes purged	12	3.4	well vol
Sampling code			
Synchronous water level	246.4 (03/18/98)	244.5 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	1.7	1	JE			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	3.9	1	JE			GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	1.4	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	0.97	1	JE			GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	770	1	V			GE	1,100	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.3	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<3.0	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<14	1				GE							µg/L
Dichloromethane	<1.5	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 2D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	1.5E+00	1	V			GP							pCi/L
Carbon-14	<3.9E-01	1	UI			GP							pCi/L
Cobalt-60	<1.4E-01	1	UI			GP							pCi/L
Curium-242	<2.7E-02	1	UI			GP							pCi/L
Curium-243/244	1.1E+00	1	V			GP							pCi/L
Curium-245/246	2.2E-01	1				GP							pCi/L
Gross alpha	1.2E+00	1				GP	5.2E-01	1				GP	pCi/L
Iodine-129	7.4E-01	1				GP							pCi/L
Nickel-63	<1.4E-01		UI										pCi/L
Nonvolatile beta	1.6E+00	1				GP	1.4E+00	1				GP	pCi/L
Plutonium-238	<2.4E-01	1	UI			GP							pCi/L
Plutonium-239/240	<2.2E-02	1	UI			GP							pCi/L
Radium-226	4.5E-01	1	UIV			GP							pCi/L
Radium-228	2.3E+00	1				GP							pCi/L
Strontium-90	<3.3E-01	1	UI			GP							pCi/L
Technetium-99	<5.2E+00	1	UI			GP							pCi/L
Thorium-228	<1.2E-01	1	UI			GP							pCi/L
Thorium-230	<5.9E-02	1	UI			GP							pCi/L
Thorium-232	<1.9E-02	1	UI			GP							pCi/L
Total alpha emitters	2.7E+00												pCi/L
Total beta emitters	3.1E+00												pCi/L
Total radium	2.3E+00												pCi/L
Tritium	2.2E+01	1		■		GP	2.7E+01	1		■		GP	pCi/mL
Uranium-233/234	<1.8E-01	1	UI			GP							pCi/L
Uranium-235	<8.0E-03	1	UI			GP							pCi/L
Uranium-238	<1.7E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 3D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N72251.5 E59770.6	33.283094 °N 81.649759 °W	253.8-233.7 ft msl	267.6 ft msl	2" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/28/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	253.6	253.8	ft msl
pH	3.9	6.9	pH
Sp. conductance	31	29	µS/cm
Water temperature	19.3	19.3	°C
Alkalinity as CaCO ₃	1	0	mg/L
Turbidity	42	1	NTU
Volumes purged	0.0	3.9	well vol
Sampling code	XN		
Synchronous water level	254.2 (03/23/98)	252.0 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	6.9	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	3.5	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	3.2	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	1,000	1	V			GE	1,500	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<1.6	1	JEV			GE							µg/L
Tin, total recoverable													
Vanadium, total recoverable	1.4	1	JE			GE							µg/L
Zinc, total recoverable	<4.1	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J			GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<3.7	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1	J			GE							µg/L
Trichloroethylene	<1.0	1	J			GE							µg/L
Trichlorofluoromethane	<1.0	1	J			GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 3D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<4.5E-02	1	UI			GP							pCi/L
Carbon-14	<3.6E+00	1	UI			GP							pCi/L
Cobalt-60	<1.6E+00	1	UI			GP							pCi/L
Curium-242	<2.2E-02	1	UI			GP							pCi/L
Curium-243/244	<8.0E-03	1	UI			GP							pCi/L
Curium-245/246	<5.0E-03	1	UI			GP							pCi/L
Gross alpha	<7.8E-01	1	UI			GP	1.1E+00	1				GP	pCi/L
Iodine-129	<1.1E+00	1	UI			GP							pCi/L
Nickel-63	<1.6E+00		UI										pCi/L
Nonvolatile beta	<1.5E+00	1	UI			GP	1.0E+00	1				GP	pCi/L
Plutonium-238	<4.9E-02	1	UI			GP							pCi/L
Plutonium-239/240	<7.0E-03	1	UI			GP							pCi/L
Radium-226	4.7E-01	1	UIV			GP							pCi/L
Radium-228	3.3E+00	1				GP							pCi/L
Strontium-90	<8.4E-02	1	UI			GP							pCi/L
Technetium-99	<1.3E+01	1	UI			GP							pCi/L
Thorium-228	<1.6E-01	1	UI			GP							pCi/L
Thorium-230	<2.1E-01	1	UI			GP							pCi/L
Thorium-232	<1.3E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	3.3E+00												pCi/L
Total radium	3.3E+00												pCi/L
Tritium	9.0E+01	1		■		GP	1.0E+02	1		■		GP	pCi/mL
Uranium-233/234	<8.4E-02	1	UI			GP							pCi/L
Uranium-235	<1.7E-02	1	UI			GP							pCi/L
Uranium-238	<7.9E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 4D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N72453.7 E60171.9	33.284196 °N 81.649095 °W	265.1-245.0 ft msl	273.2 ft msl	2" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/29/98	04/27/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	265.4	264.9	ft msl
pH	5.8	5.9	pH
Sp. conductance	92	100	µS/cm
Water temperature	13.0	15.7	°C
Alkalinity as CaCO ₃	18	25	mg/L
Turbidity	1	1	NTU
Volumes purged	11	4.9	well vol
Sampling code			
Synchronous water level	265.0 (03/23/98)	263.8 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Inorganic Constituents													
Antimony, total recoverable	<5.0	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	59	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	<5.0	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	4.3	1	JEV			GE							µg/L
Mercury, total recoverable	1.8	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	410	1	V			GE	450	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.7	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.46	1	JE			GE							µg/L
Zinc, total recoverable	<6.6	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.4	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 4D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	1.7E+00	1	V			GP							pCi/L
Carbon-14	<3.3E+00	1	UI			GP							pCi/L
Cobalt-60	<1.4E+00	1	UI			GP							pCi/L
Curium-242	<4.7E-02	1	UI			GP							pCi/L
Curium-243/244	8.5E-01	1	V			GP							pCi/L
Curium-245/246	2.4E-01	1				GP							pCi/L
Gross alpha	1.2E+00	1				GP	<5.7E-01	1	UI			GP	pCi/L
Iodine-129	<8.8E-01	1	UI			GP							pCi/L
Nickel-63	<1.4E+00		UI										pCi/L
Nonvolatile beta	4.0E+01	1				GP	5.0E+01	1		■		GP	pCi/L
Plutonium-238	<3.7E-01	1	UI			GP							pCi/L
Plutonium-239/240	<1.3E-01	1	UI			GP							pCi/L
Radium-226	<2.0E-01	1	UI			GP							pCi/L
Radium-228	4.9E+00	1				GP							pCi/L
Strontium-90	1.8E+01	1		■		GP							pCi/L
Technetium-99	<1.6E+00	1	UI			GP							pCi/L
Thorium-228	<1.1E-01	1	UI			GP							pCi/L
Thorium-230	<1.6E-01	1	UI			GP							pCi/L
Thorium-232	<1.0E-01	1	UI			GP							pCi/L
Total alpha emitters	2.8E+00												pCi/L
Total beta emitters	2.3E+01												pCi/L
Total radium	4.9E+00												pCi/L
Tritium	3.1E+01	1		■		GP	2.5E+01	1		■		GP	pCi/mL
Uranium-233/234	<1.7E-02	1	UI			GP							pCi/L
Uranium-235	<1.7E-02	1	UI			GP							pCi/L
Uranium-238	<5.1E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 5D

<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>Screen Zone</u>
N72562.2 E60339.4	33.284709 °N 81.648865 °W	267.7-247.8 ft msl	276.6 ft msl	2" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/29/98	04/24/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	269.4	269.0	ft msl
pH	5.2	5.6	pH
Sp. conductance	100	76	µS/cm
Water temperature	18.0	20.2	°C
Alkalinity as CaCO ₃	6	6	mg/L
Turbidity	1	1	NTU
Volumes purged	23	8.0	well vol
Sampling code			
Synchronous water level	269.1 (03/23/98)	267.9 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<5.0	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	68	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	0.95	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	<5.0	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	1.1	1	JE			GE							µg/L
Mercury, total recoverable	0.46	1				GE	0.15	1	JE			GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	5,300	3	V			GE	2,500	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.1	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	0.46	1	JE			GE							µg/L
Zinc, total recoverable	<2.6	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1	J1			GE							µg/L
Dichloromethane	<1.4	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 5D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	1.3E+00	1	UIV			GP							pCi/L
Carbon-14	<1.7E-01	1	UI			GP							pCi/L
Cobalt-60	<1.3E+00	1	UI			GP							pCi/L
Curium-242	<1.6E-02	1	UI			GP							pCi/L
Curium-243/244	1.0E+00	1	V			GP							pCi/L
Curium-245/246	<1.0E-01	1	UI			GP							pCi/L
Gross alpha	<4.9E-01	1	UI			GP	<2.2E-01	1		UJI		GP	pCi/L
Iodine-129	<3.4E-01	1	UI			GP							pCi/L
Nickel-63	<1.3E+00		UI										pCi/L
Nonvolatile beta	2.0E+01	1				GP	1.7E+01	1		J		GP	pCi/L
Plutonium-238	<7.7E-02	1	UI			GP							pCi/L
Plutonium-239/240	<2.2E-02	1	UI			GP							pCi/L
Radium-226	5.9E-01	1	UIV			GP							pCi/L
Radium-228	4.9E+00	1				GP							pCi/L
Strontium-90	1.1E+01	1		■		GP							pCi/L
Technetium-99	<-7.5E+00	1	UI			GP							pCi/L
Thorium-228	<2.1E-01	1	UI			GP							pCi/L
Thorium-230	<5.5E-02	1	UI			GP							pCi/L
Thorium-232	<-2.1E-02	1	UI			GP							pCi/L
Total alpha emitters	1.0E+00												pCi/L
Total beta emitters	1.6E+01												pCi/L
Total radium	4.9E+00												pCi/L
Tritium	3.4E+01	1		■		GP	4.1E+01	1		■		GP	pCi/mL
Uranium-233/234	<3.1E-02	1	UI			GP							pCi/L
Uranium-235	<-1.4E-02	1	UI			GP							pCi/L
Uranium-238	<-4.1E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 6D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N72659.7 E60531.1	33.285238 °N 81.648549 °W	264.0-243.9 ft msl	280 ft msl	2" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/29/98	04/24/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	263.8	265.9	ft msl
pH	4.2	6.1	pH
Sp. conductance	120	64	µS/cm
Water temperature	19.0	18.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	2	2	NTU
Volumes purged	9.5	6.1	well vol
Sampling code			
Synchronous water level	265.7 (03/23/98)	258.2 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<5.0	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	27	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	7.3	1				GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	2.9	1	JE			GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	0.25	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	7.6	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	440	1	V			GE	350	1				GE	µg/L
Selenium, total recoverable	1.4	1	JE			GE							µg/L
Silver, total recoverable	1.1	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	12	1	V			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.4	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 6D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Radioactive Constituents</i>													
Americium-241	2.1E+00	1	V			GP							pCi/L
Carbon-14	<1.7E+00	1	UI			GP							pCi/L
Cobalt-60	<-3.2E-01	1	UI			GP							pCi/L
Curium-242	<7.0E-03	1	UI			GP							pCi/L
Curium-243/244	4.9E-01	1	UIV			GP							pCi/L
Curium-245/246	<7.8E-02	1	UI			GP							pCi/L
Gross alpha	6.6E+00	1				GP	5.2E+00	1	J			GP	pCi/L
Iodine-129	<-6.8E-02	1	UI			GP							pCi/L
Nickel-63	<-3.2E-01		UI										pCi/L
Nonvolatile beta	4.1E+01	1				GP	4.2E+01	1	J			GP	pCi/L
Plutonium-238	<5.6E-01	1	UI			GP							pCi/L
Plutonium-239/240	3.9E+00	1	J			GP							pCi/L
Radium-226	1.4E+00	1				GP							pCi/L
Radium-228	1.8E+00	1				GP							pCi/L
Strontium-90	1.6E+01	1		■		GP							pCi/L
Technetium-99	<2.0E+00	1	UI			GP							pCi/L
Thorium-228	<-3.3E-02	1	UI			GP							pCi/L
Thorium-230	<2.4E-01	1	UI			GP							pCi/L
Thorium-232	<2.1E-02	1	UI			GP							pCi/L
Total alpha emitters	7.4E+00												pCi/L
Total beta emitters	1.8E+01												pCi/L
Total radium	3.2E+00												pCi/L
Tritium	4.8E+01	1		■		GP	4.9E+01	1		■		GP	pCi/mL
Uranium-233/234	6.5E-01	1				GP							pCi/L
Uranium-235	<1.9E-02	1	UI			GP							pCi/L
Uranium-238	7.6E-01	1				GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 7D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N72674.4 E60723.0	33.285583 °N 81.648073 °W	262.4-242.3 ft msl	283.8 ft msl	2" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/30/98	04/24/98
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FIELD DATA

<u>Constituents</u>	<u>1Q98</u>	<u>2Q98</u>	<u>Unit</u>
Water elevation	262.6	264.9	ft msl
pH	5.4	6.1	pH
Sp. conductance	71	49	µS/cm
Water temperature	19.5	19.2	°C
Alkalinity as CaCO ₃	4	1	mg/L
Turbidity	81	3	NTU
Volumes purged	0.0	9.2	well vol
Sampling code	NTX		
Synchronous water level	264.6 (03/23/98)	263.6 (06/22/98)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Inorganic Constituents</i>													
Antimony, total recoverable	<10	1				GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	16	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	2.0	1	JE			GE							µg/L
Cobalt, total recoverable	0.92	1	JE			GE							µg/L
Copper, total recoverable	1.6	1	JE			GE							µg/L
Cyanide	<10	1	J1		●	GE							µg/L
Lead, total recoverable	<5.0	1				GE							µg/L
Mercury, total recoverable	<0.20	1				GE	<0.20	1				GE	µg/L
Nickel, total recoverable	3.5	1	JE			GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	2,200	2	V			GE	2,200	1				GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	<5.0	1				GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<4.8	1	JEV			GE							µg/L

<u>Constituents</u>	<u>1Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>2Q98</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>													
Benzene	<1.0	1	J1		●	GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.2	1	JV1		●	GE							µg/L
Tetrachloroethylene	<1.0	1	J1		●	GE							µg/L
Trichloroethylene	<1.0	1	J1		●	GE							µg/L
Trichlorofluoromethane	<1.0	1	J1		●	GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 7D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	<9.0E-03	1	UI			GP							pCi/L
Carbon-14	<6.1E-01	1	UI			GP							pCi/L
Cobalt-60	<1.5E-01	1	UI			GP							pCi/L
Curium-242	<2.9E-02	1	UI			GP							pCi/L
Curium-243/244	<1.3E-01	1	UI			GP							pCi/L
Curium-245/246	<7.5E-02	1	UI			GP							pCi/L
Gross alpha	1.5E+00	1				GP	<3.5E-01	1	UJI			GP	pCi/L
Iodine-129	<5.0E-01	1	UI			GP							pCi/L
Nickel-63	<1.5E-01		UI										pCi/L
Nonvolatile beta	2.3E+00	1				GP	<1.1E+00	1	UJI			GP	pCi/L
Plutonium-238	<2.0E-01	1	UI			GP							pCi/L
Plutonium-239/240	<1.3E-02	1	UI			GP							pCi/L
Radium-226	4.3E-01	1	UIV			GP							pCi/L
Radium-228	4.8E+00	1				GP							pCi/L
Strontium-90	<2.3E-01	1	UI			GP							pCi/L
Technetium-99	<1.1E+00	1	UI			GP							pCi/L
Thorium-228	<6.9E-02	1	UI			GP							pCi/L
Thorium-230	<2.2E-02	1	UI			GP							pCi/L
Thorium-232	<3.7E-02	1	UI			GP							pCi/L
Total alpha emitters													
Total beta emitters	4.8E+00												pCi/L
Total radium	4.8E+00												pCi/L
Tritium	3.1E+01	1		■		GP	3.3E+01	1		■		GP	pCi/mL
Uranium-233/234	<0.0E+00	1	UI			GP							pCi/L
Uranium-235	<9.0E-02	1	UI			GP							pCi/L
Uranium-238	<3.9E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 8D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72688.1 E61117.1	33.286257 °N 81.647061 °W	268.4-248.4 ft msl	288.7 ft msl	2" PVC	V	Water Table (IIB2)

SAMPLE DATE	01/29/98	04/24/98
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FIELD DATA

Constituents	1Q98	2Q98	Unit
Water elevation	261.7	264.5	ft msl
pH	4.8	4.6	pH
Sp. conductance	140	160	µS/cm
Water temperature	20.0	22.5	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	4	NTU
Volumes purged	11	1.9	well vol
Sampling code			
Synchronous water level	264.2 (03/19/98)	264.2 (06/22/98)	ft msl

ANALYTICAL DATA

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Inorganic Constituents</i>													
Antimony, total recoverable	1.9	1	JE			GE							µg/L
Arsenic, total recoverable	<5.0	1				GE							µg/L
Barium, total recoverable	18	1				GE							µg/L
Cadmium, total recoverable	<5.0	1				GE							µg/L
Chromium, total recoverable	0.77	1	JE			GE							µg/L
Cobalt, total recoverable	<5.0	1				GE							µg/L
Copper, total recoverable	13	1				GE							µg/L
Cyanide	<10	1				GE							µg/L
Lead, total recoverable	2.5	1	JE			GE							µg/L
Mercury, total recoverable	0.23	1				GE	0.21	1				GE	µg/L
Nickel, total recoverable	<5.0	1				GE							µg/L
Nitrate as nitrogen													
Nitrate-nitrite as nitrogen	5,200	3	V			GE	15,000	5		■		GE	µg/L
Selenium, total recoverable	<5.0	1				GE							µg/L
Silver, total recoverable	1.3	1	JE			GE							µg/L
Tin, total recoverable	<10	1				GE							µg/L
Vanadium, total recoverable	<5.0	1				GE							µg/L
Zinc, total recoverable	<3.0	1	JEV			GE							µg/L

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
<i>Organic Constituents</i>													
Benzene	<1.0	1				GE							µg/L
Bis(2-ethylhexyl) phthalate	<10	1				GE							µg/L
Dichloromethane	<1.4	1	JV			GE							µg/L
Tetrachloroethylene	<1.0	1				GE							µg/L
Trichloroethylene	<1.0	1				GE							µg/L
Trichlorofluoromethane	<1.0	1				GE							µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

WELL HSL 8D (cont.)

Constituents	1Q98	DF	Mod	ST	H	Lab	2Q98	DF	Mod	ST	H	Lab	Unit
Radioactive Constituents													
Americium-241	1.8E+00	1	V			GP							pCi/L
Carbon-14	<7.2E-01	1	UI			GP							pCi/L
Cobalt-60	<2.5E-01	1	UI			GP							pCi/L
Curium-242	<2.7E-02	1	UI			GP							pCi/L
Curium-243/244	1.0E+00	1	V			GP							pCi/L
Curium-245/246	2.3E-01	1				GP							pCi/L
Gross alpha	3.0E+00	1				GP	1.5E+00	1	J			GP	pCi/L
Iodine-129	<5.2E-01	1	UI			GP							pCi/L
Nickel-63	<2.5E-01	1	UI										pCi/L
Nonvolatile beta	3.1E+01	1				GP	3.0E+01	1	J			GP	pCi/L
Plutonium-238	5.3E-01	1	UJIV			GP							pCi/L
Plutonium-239/240	<3.5E-02	1	UI			GP							pCi/L
Radium-226	1.0E+00	1				GP							pCi/L
Radium-228	3.5E+00	1				GP							pCi/L
Strontium-90	3.1E+00	1				GP							pCi/L
Technetium-99	5.3E+01	1			■	GP							pCi/L
Thorium-228	<1.5E-01	1	UI			GP							pCi/L
Thorium-230	<8.8E-02	1	UI			GP							pCi/L
Thorium-232	<8.8E-02	1	UI			GP							pCi/L
Total alpha emitters	3.1E+00				■								pCi/L
Total beta emitters	5.9E+01												pCi/L
Total radium	4.5E+00												pCi/L
Tritium	7.1E+01	1			■	GP	1.9E+02	1			■	GP	pCi/mL
Uranium-233/234	<9.4E-02	1	UI			GP							pCi/L
Uranium-235	<3.2E-02	1	UI			GP							pCi/L
Uranium-238	<9.4E-02	1	UI			GP							pCi/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard. See Appendix A.

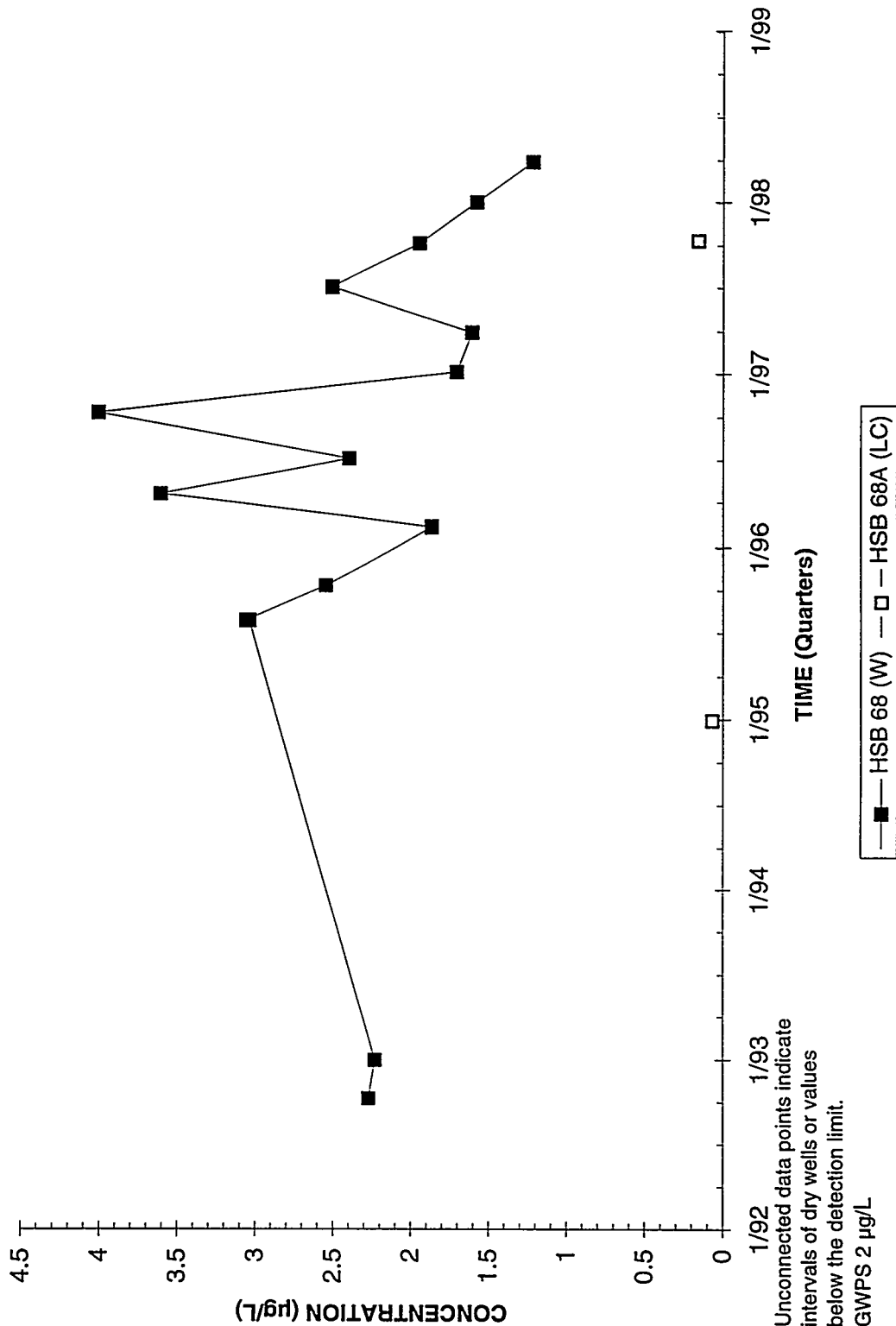
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Appendix D

Time Series Plots

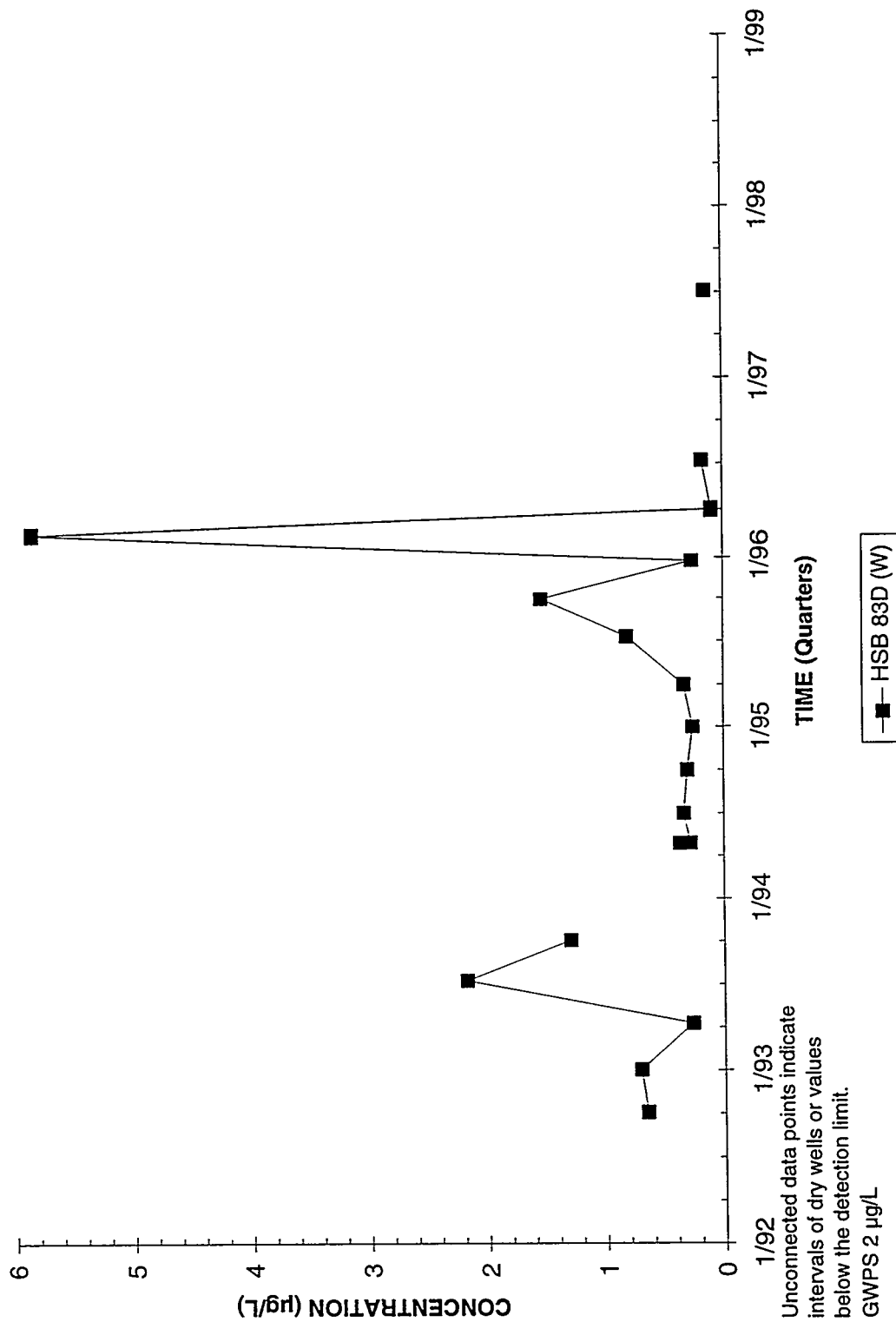
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Mercury Concentrations Well Cluster HSB 68



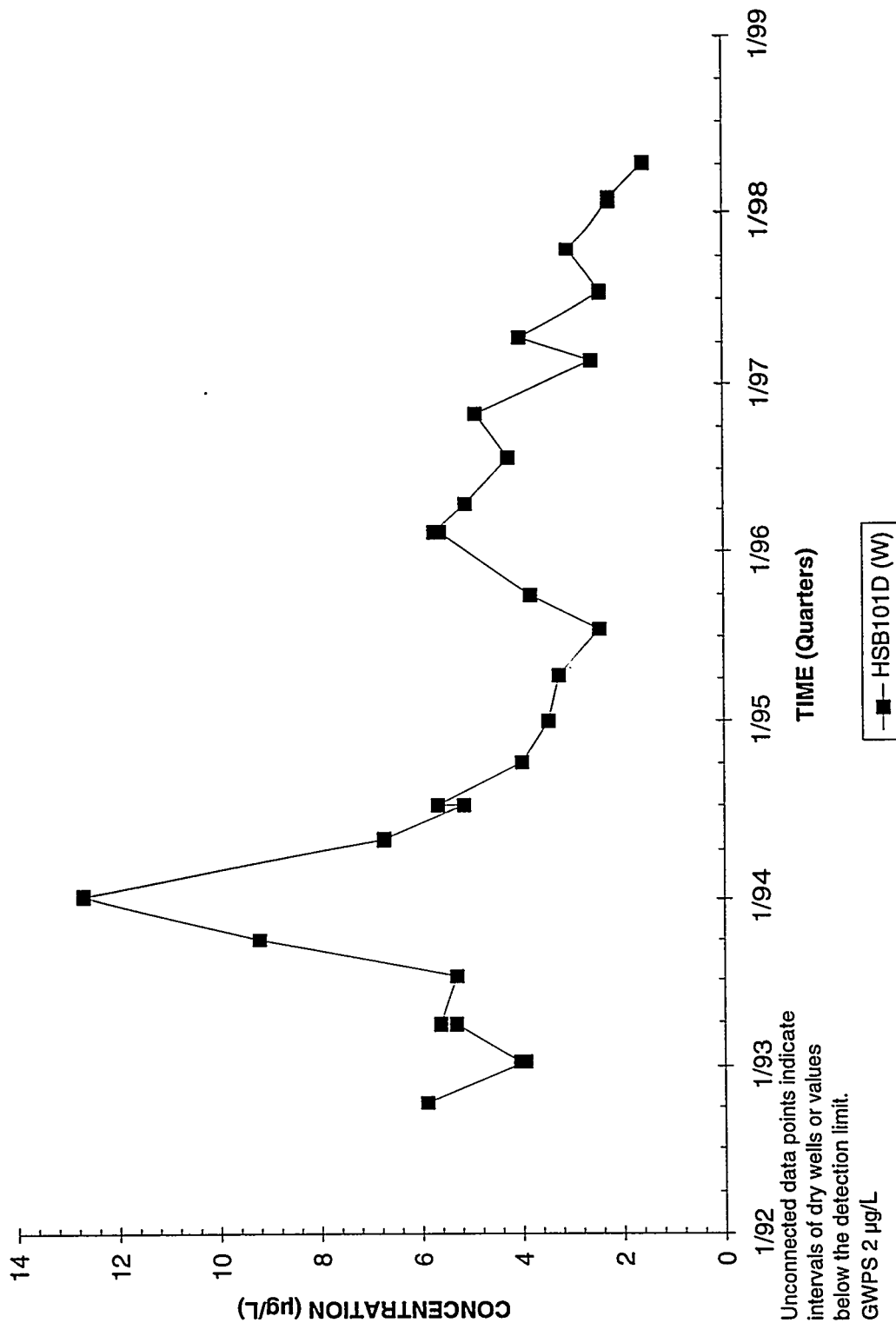
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB 83D



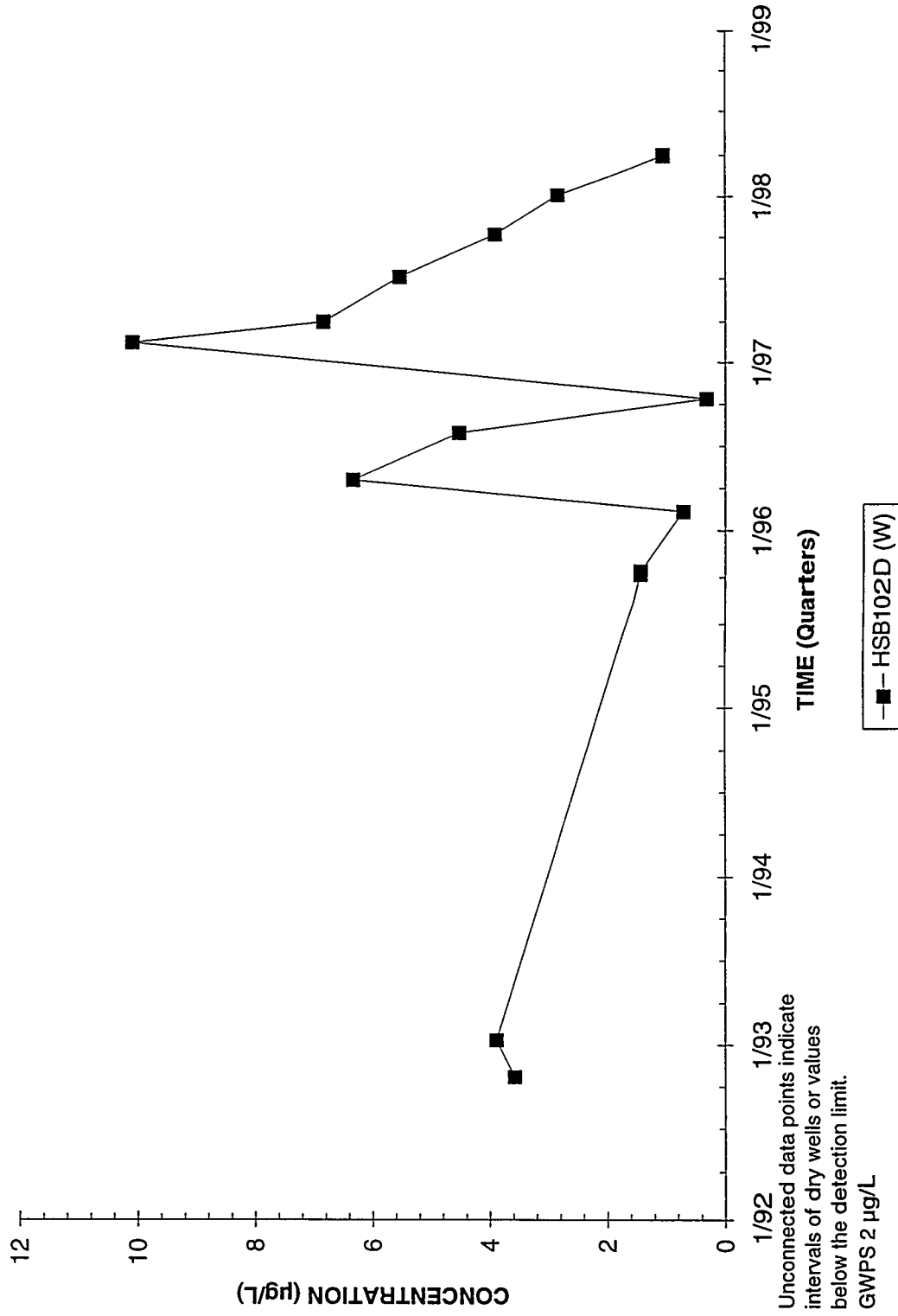
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB101D



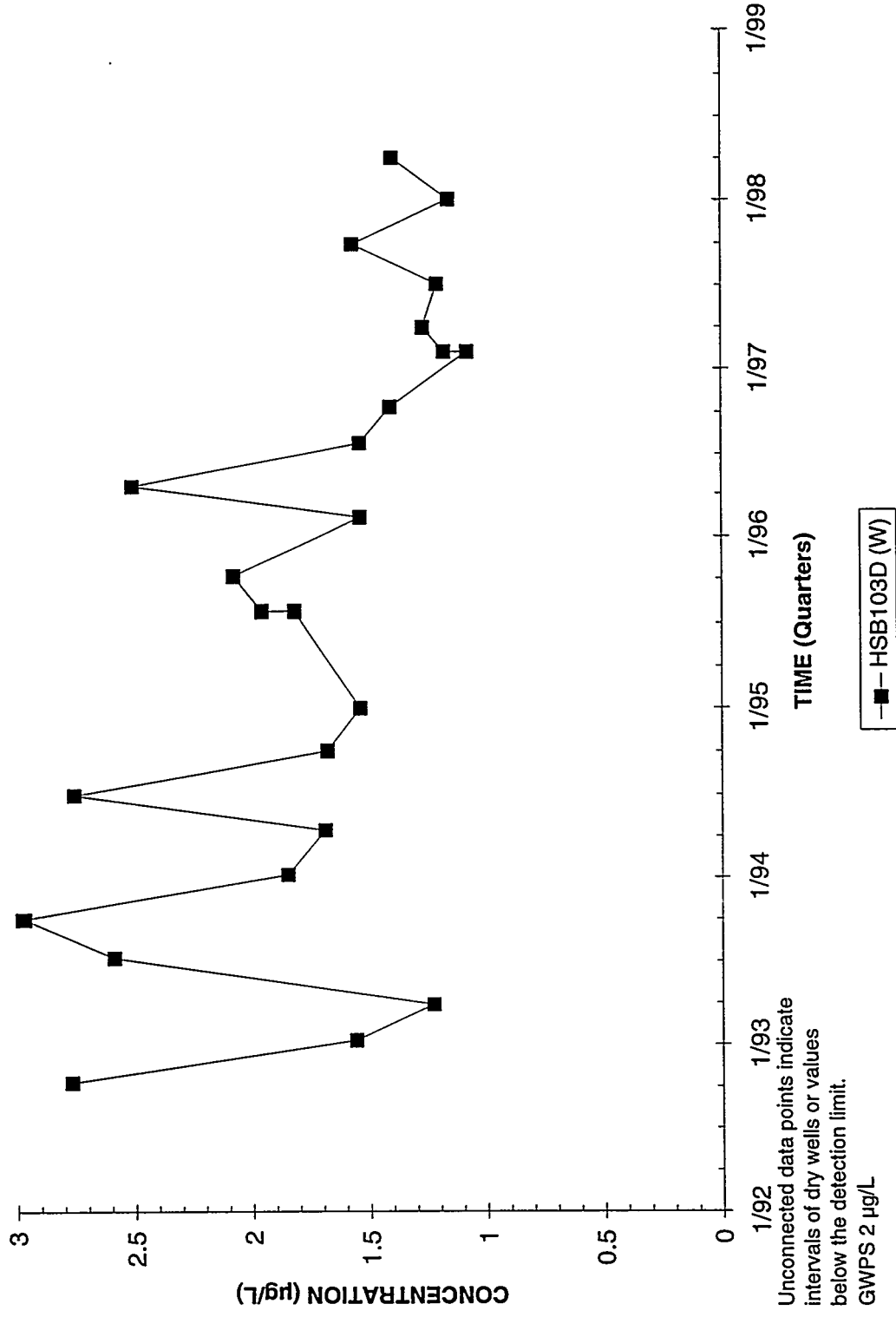
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB102D



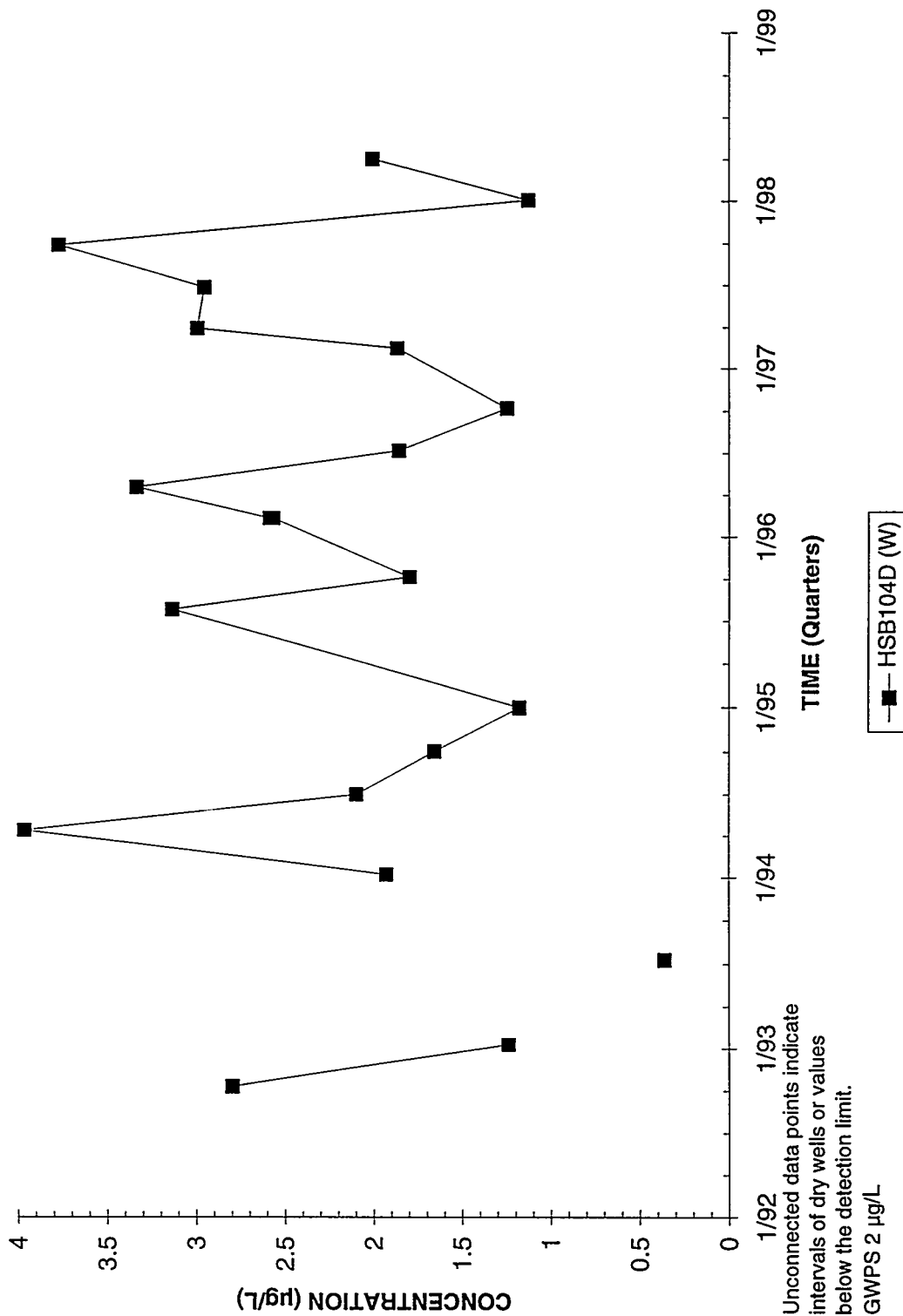
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB103D



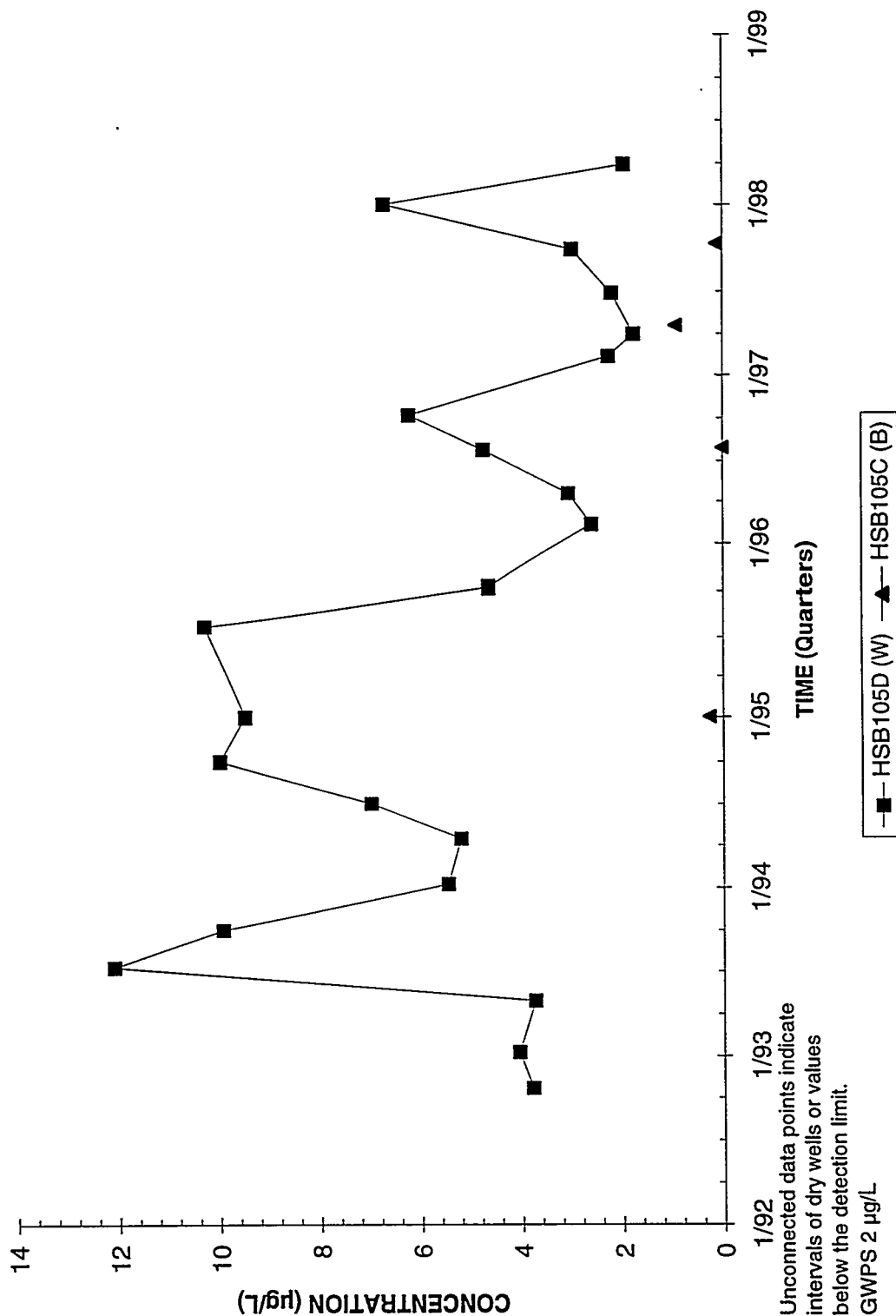
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB104D



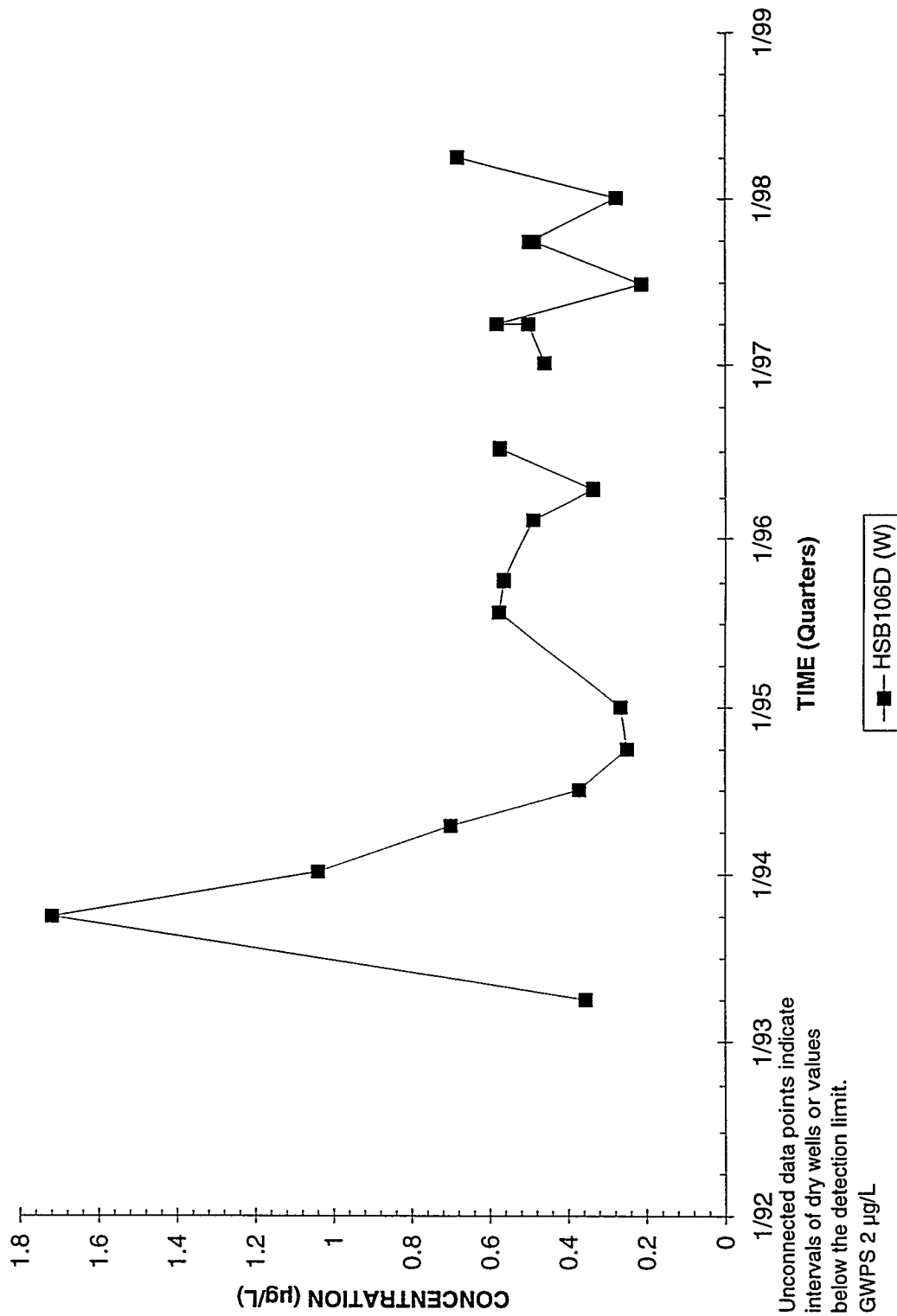
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well Cluster HSB105



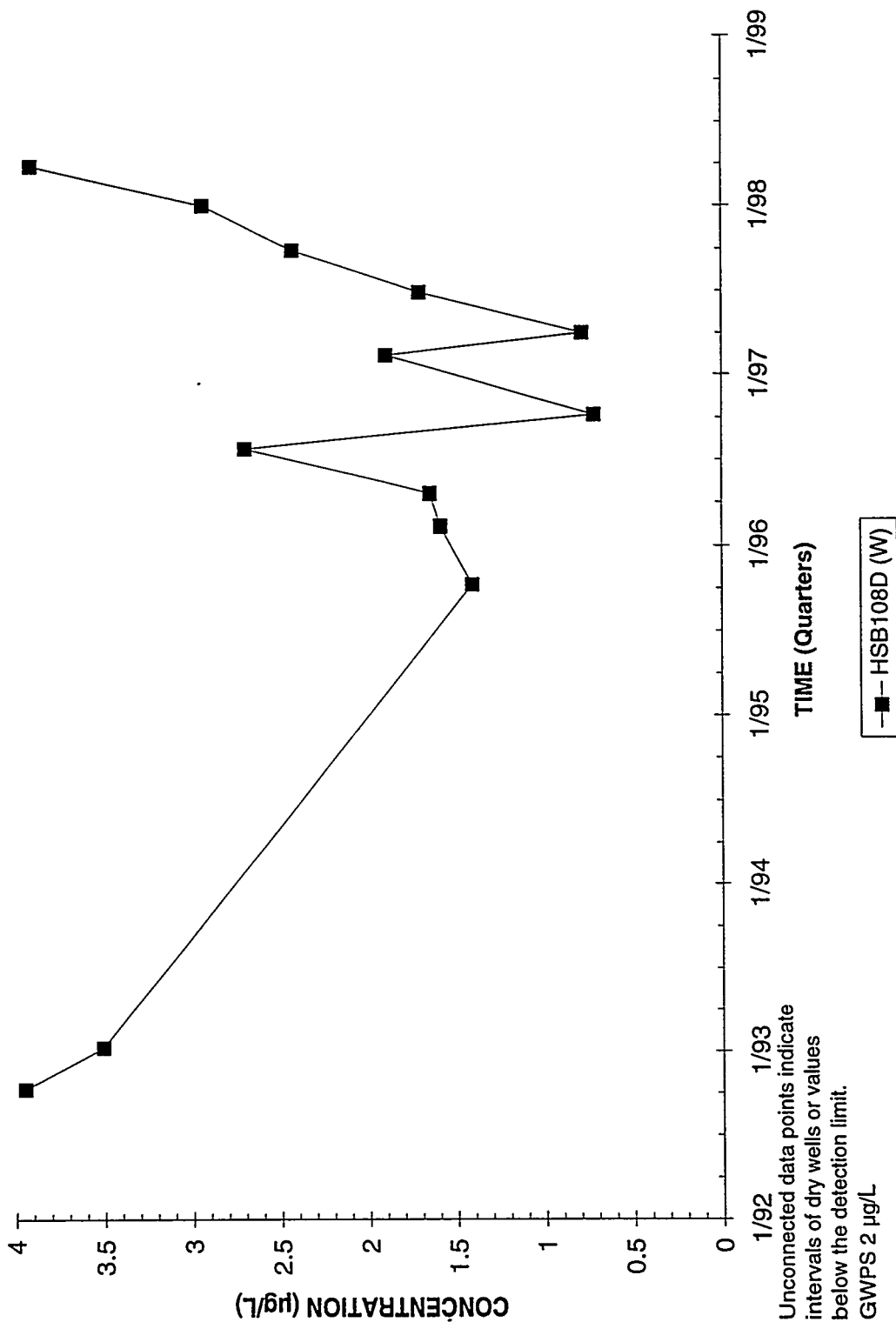
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB106D



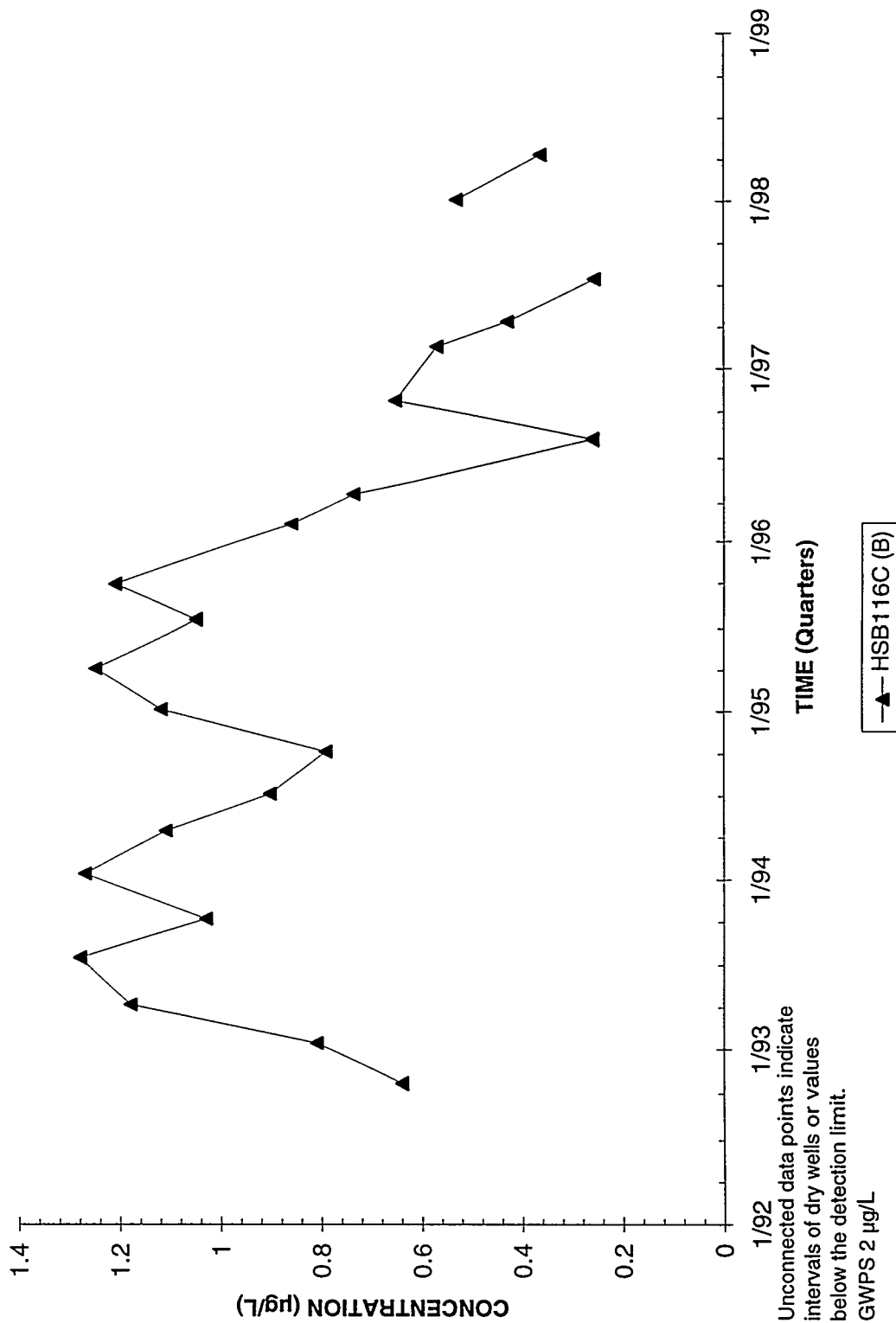
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB108D



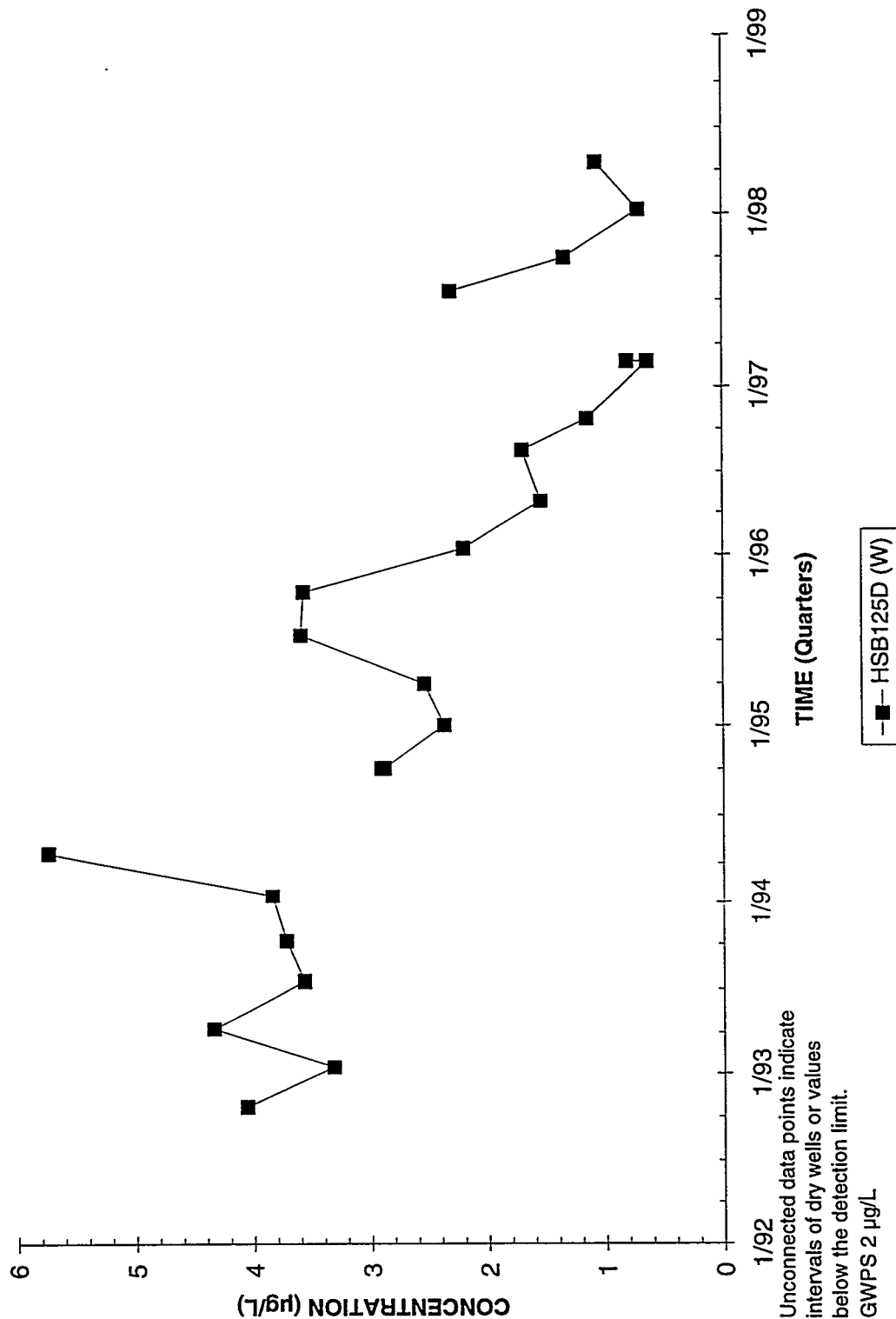
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB116C



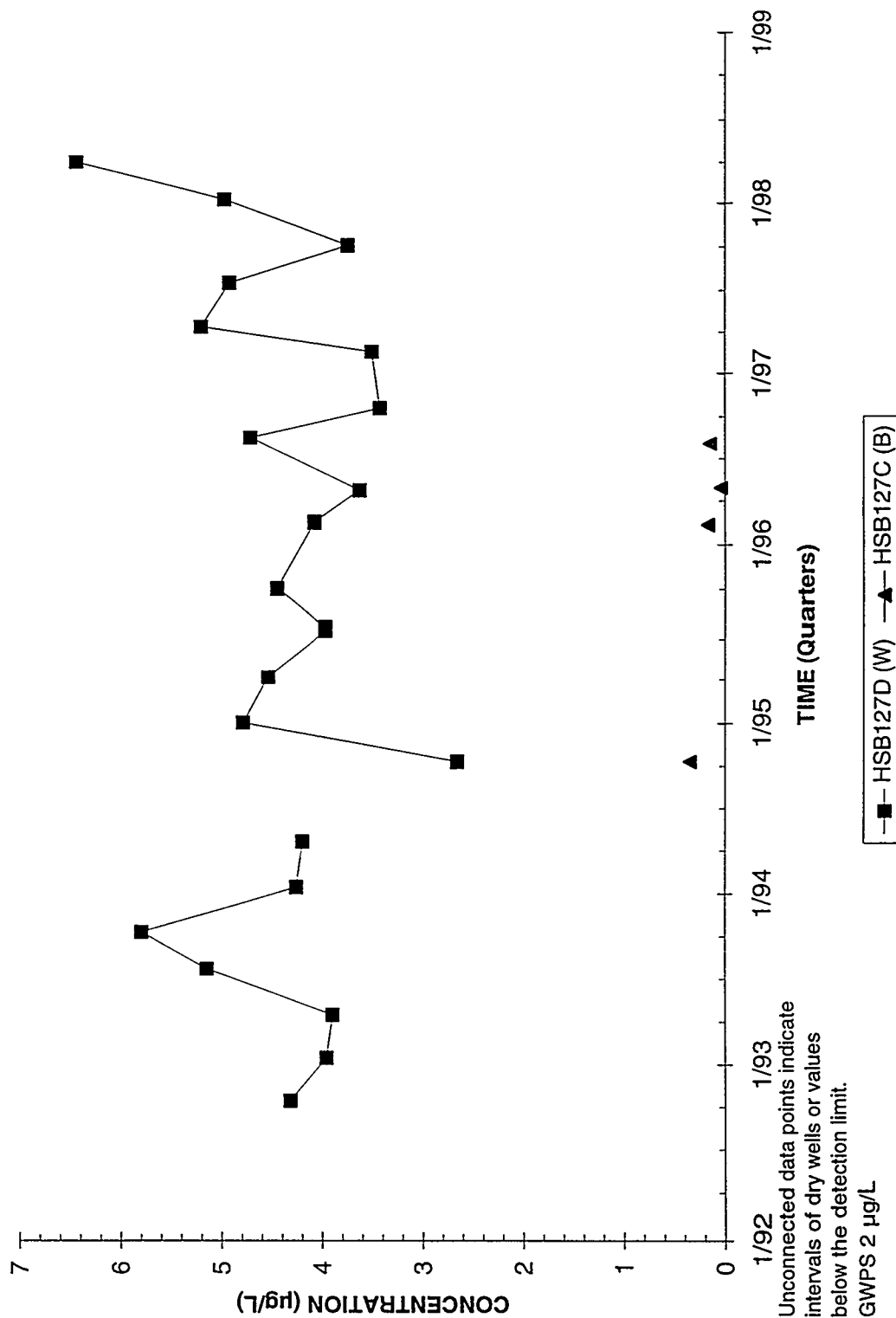
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB125D



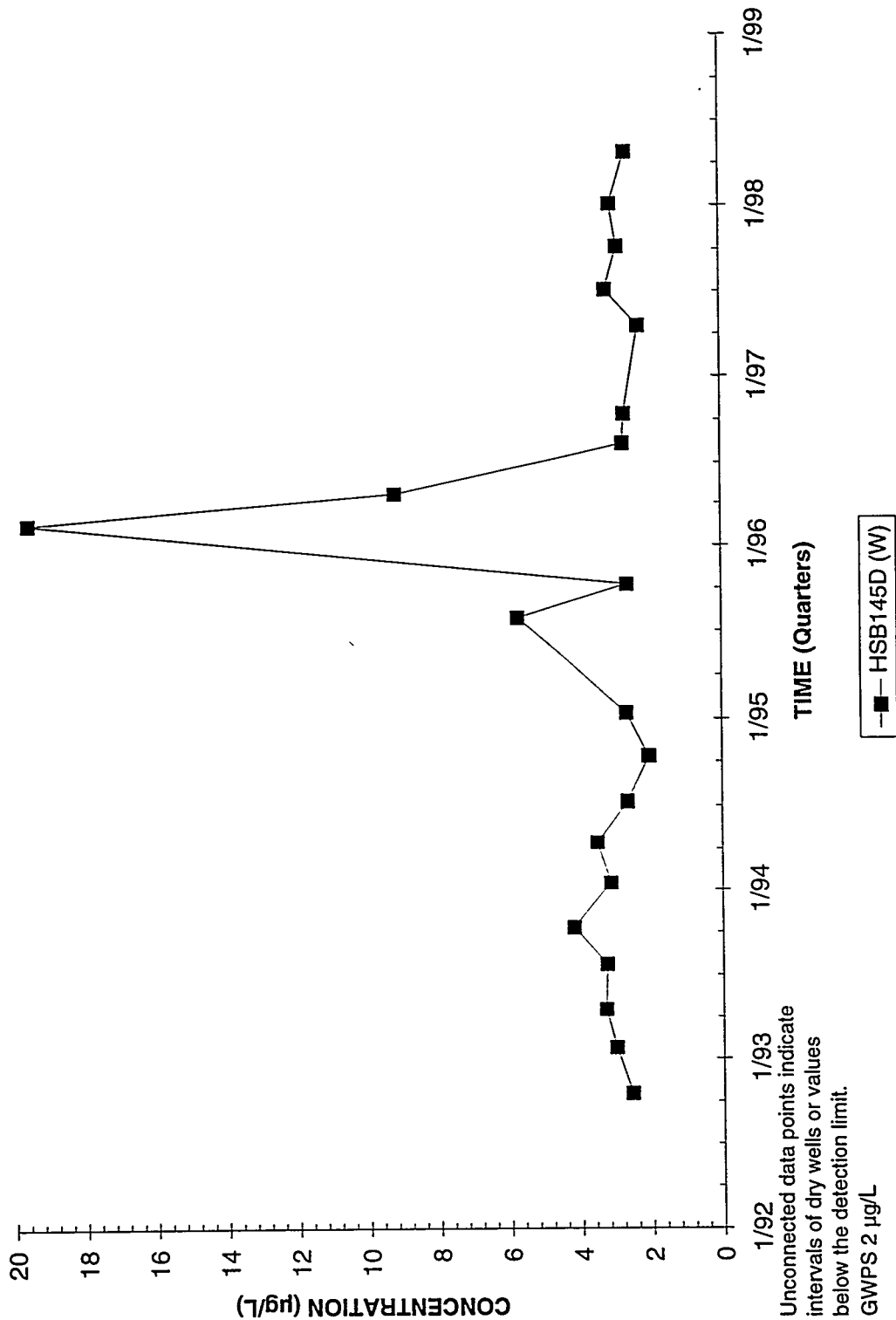
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well Cluster HSB127



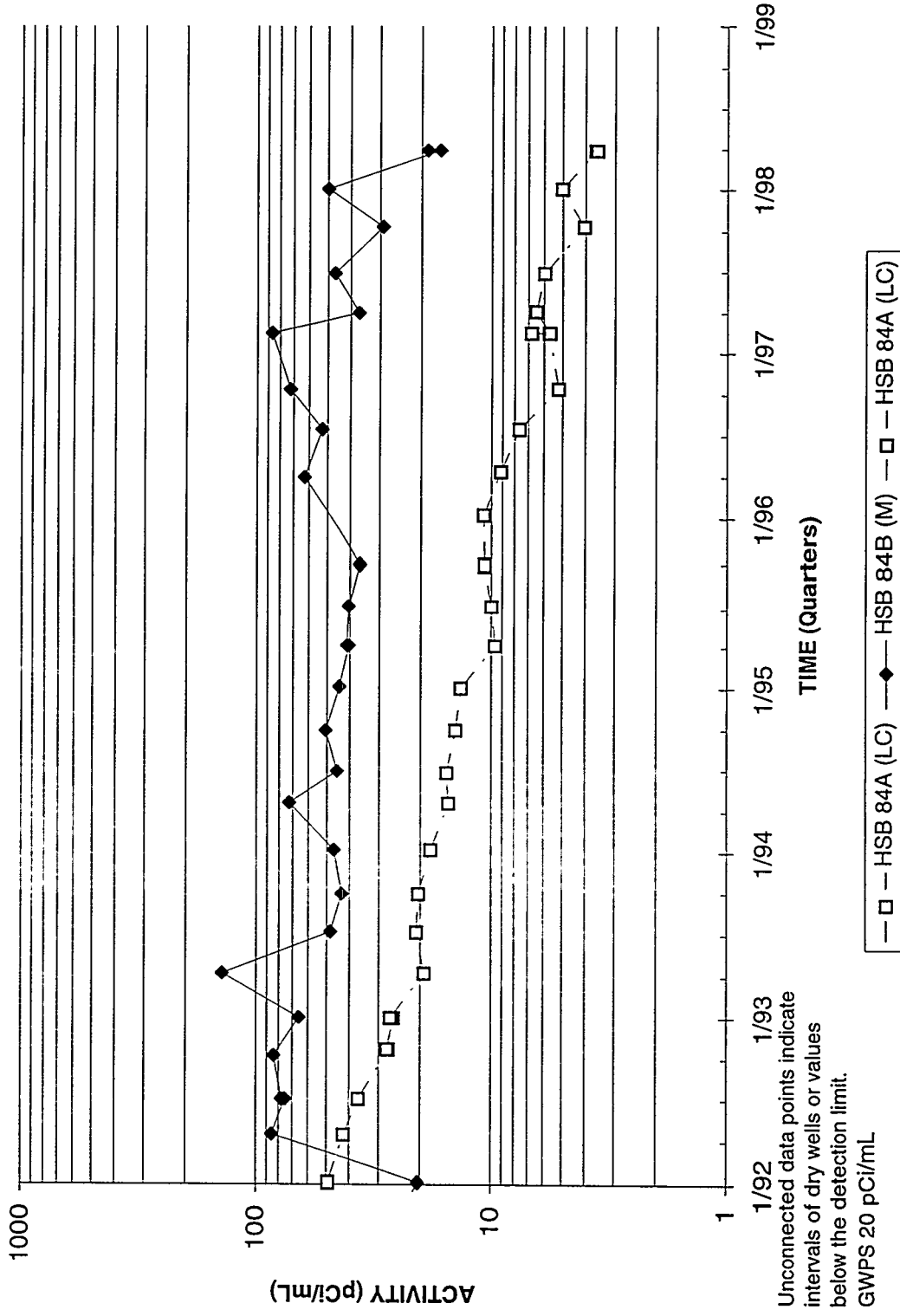
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Mercury Concentrations Well HSB145D



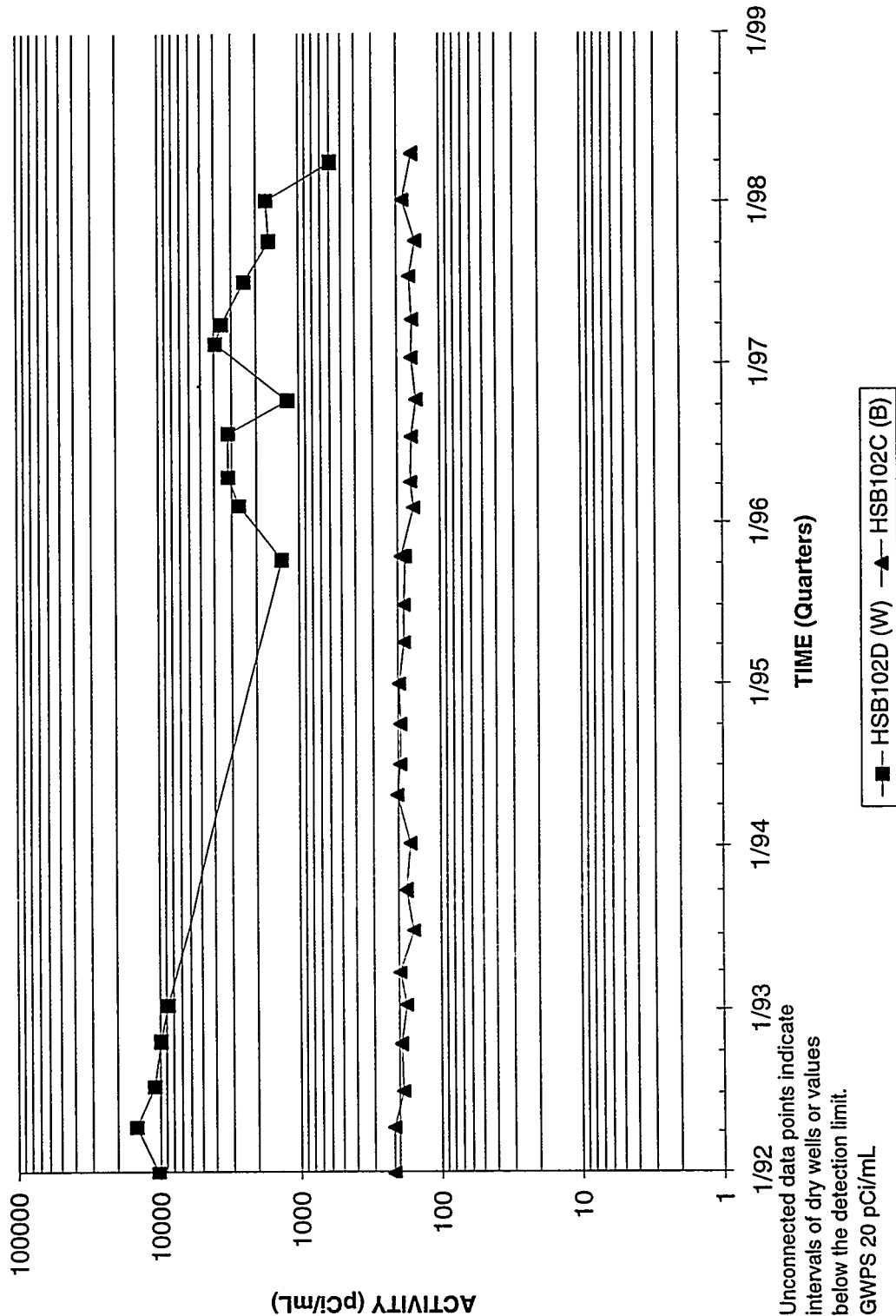
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster HSB 84



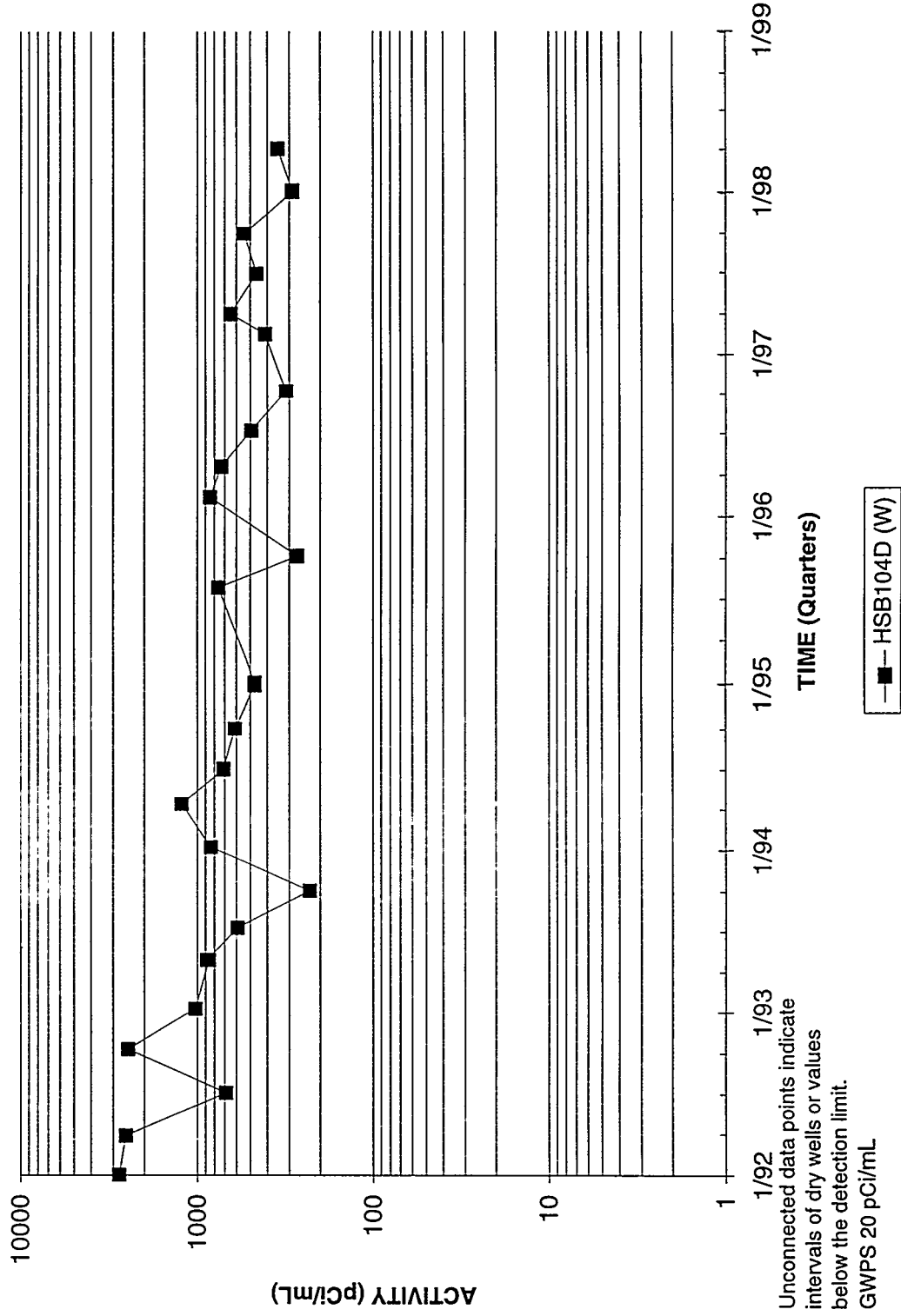
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster HSB102



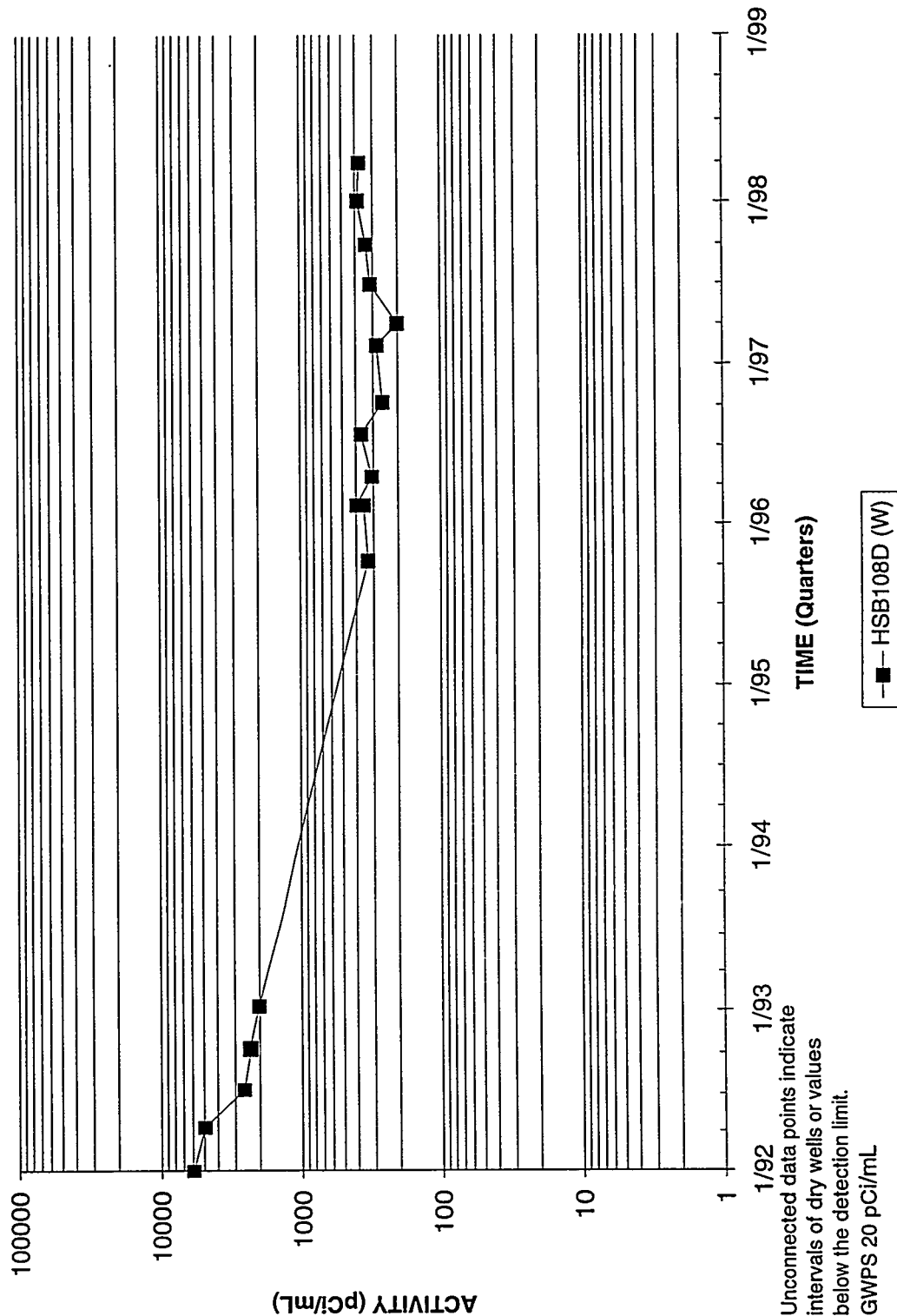
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HSB104D



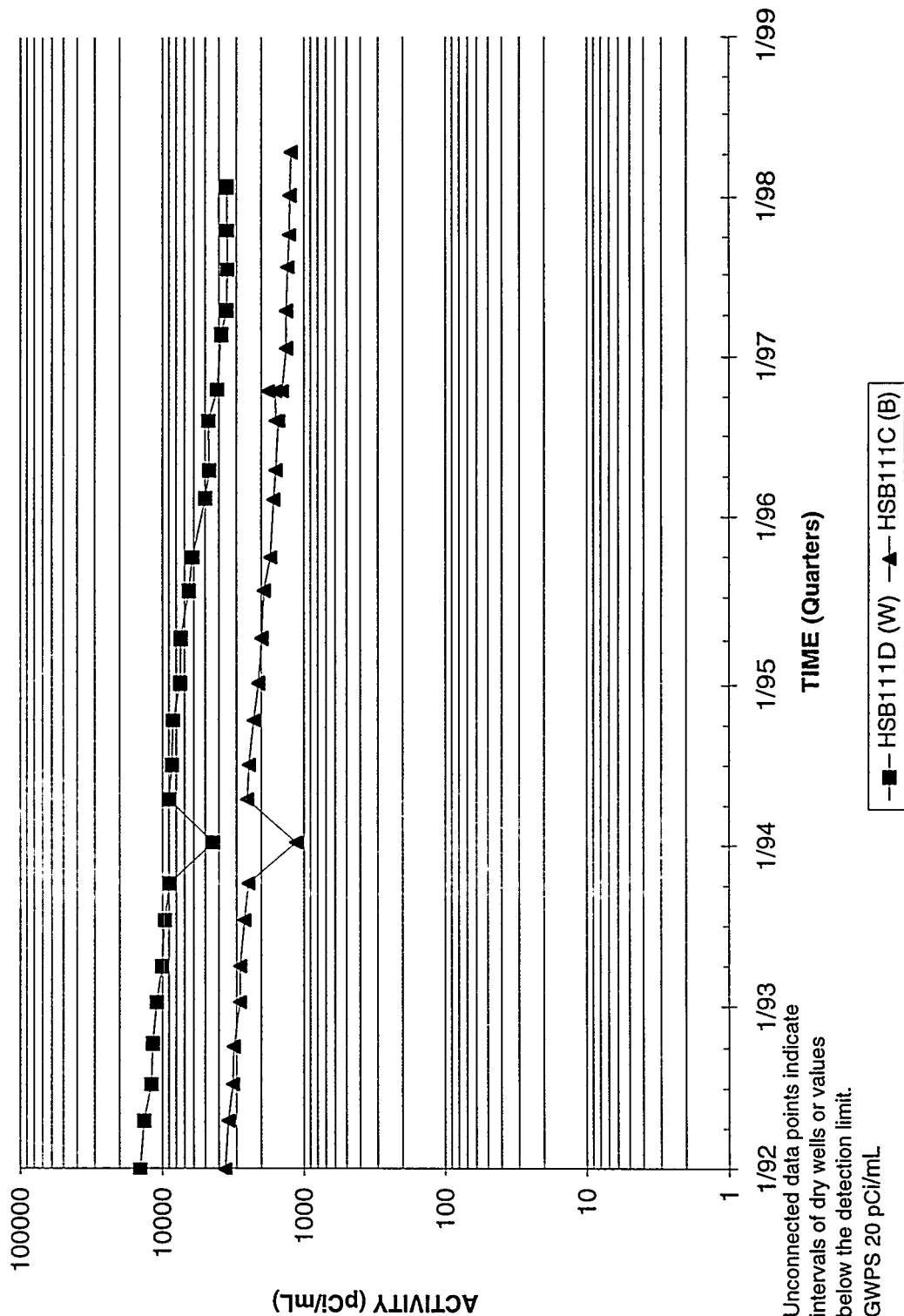
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HSB108D



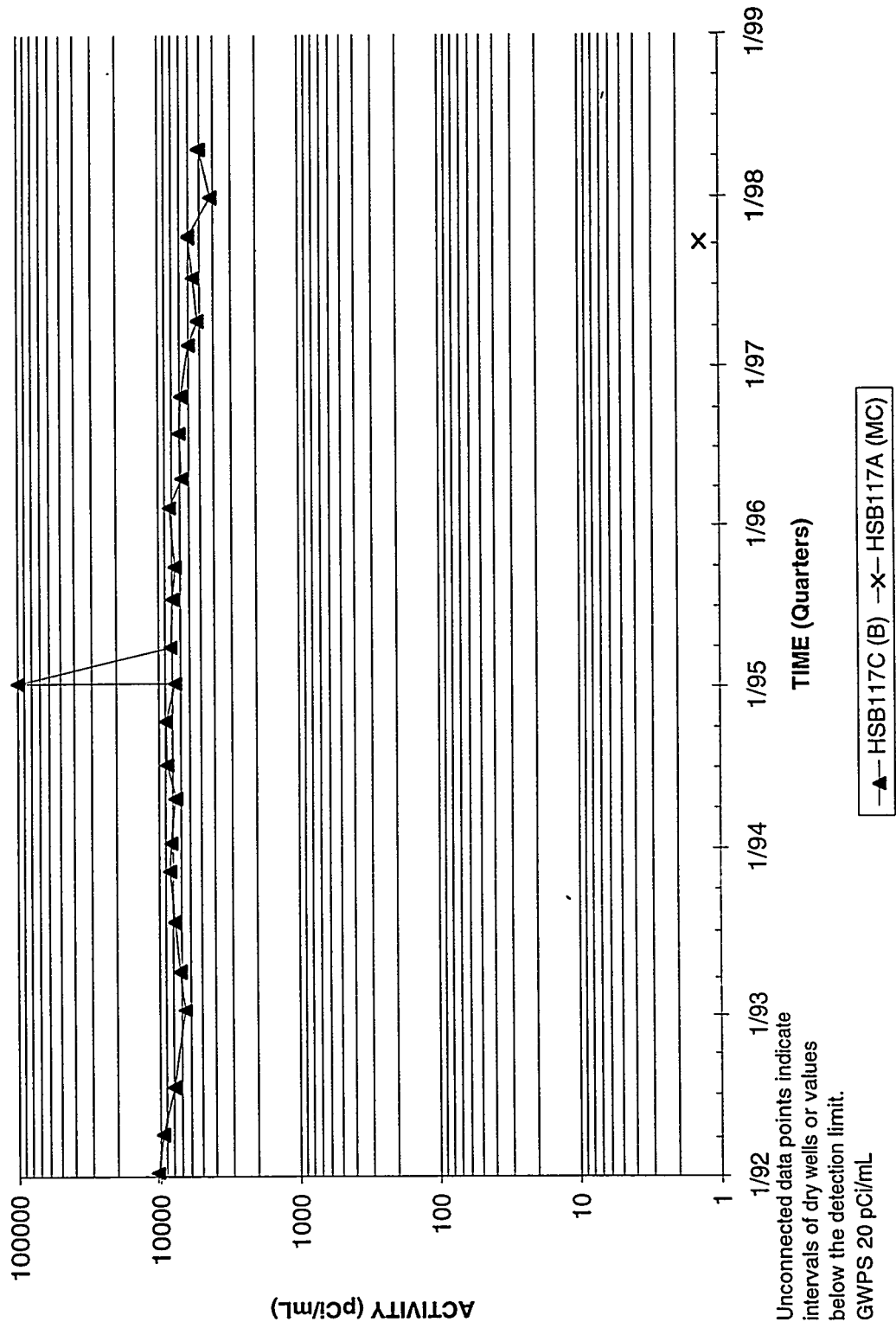
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster HSB111



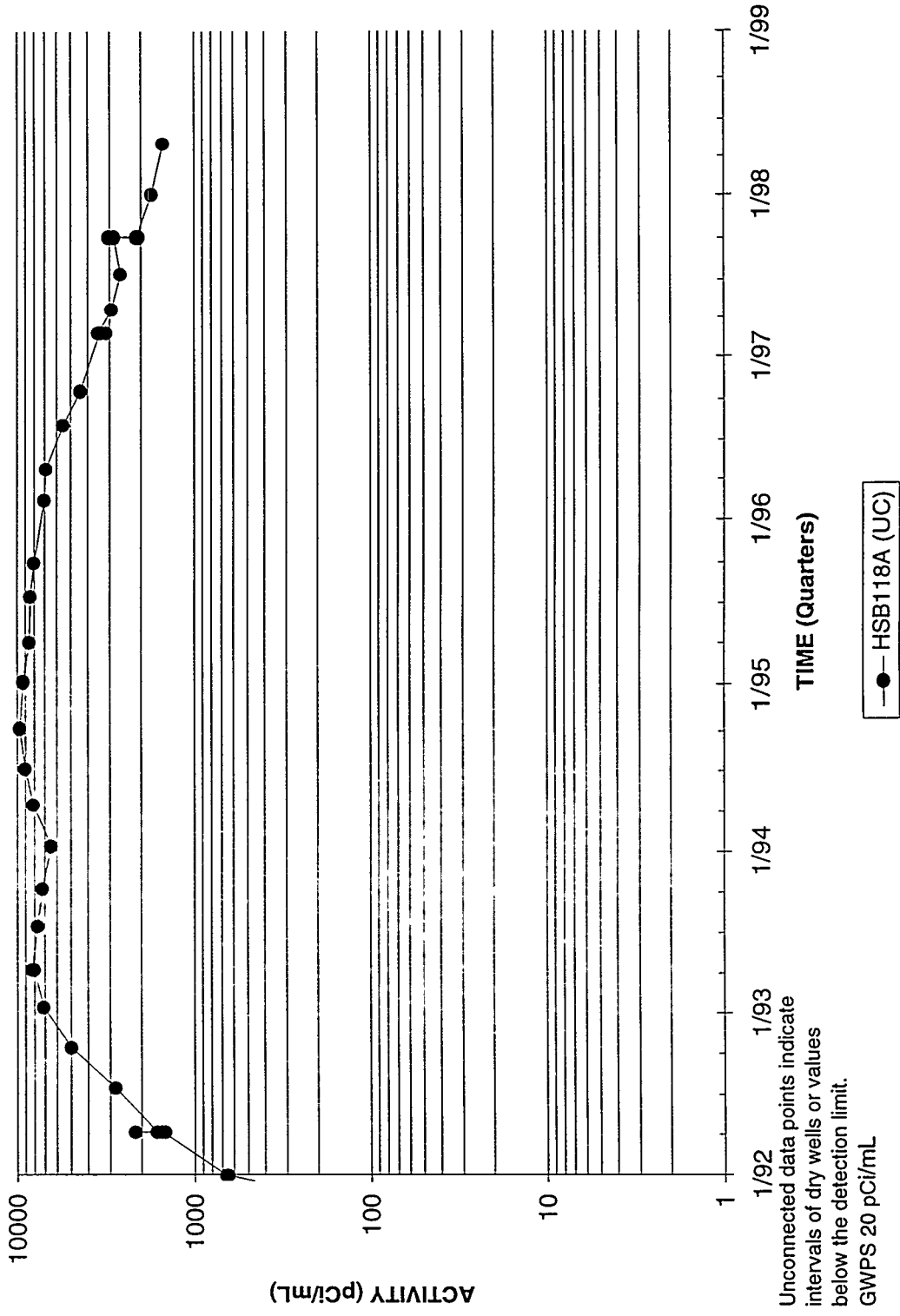
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster HSB117



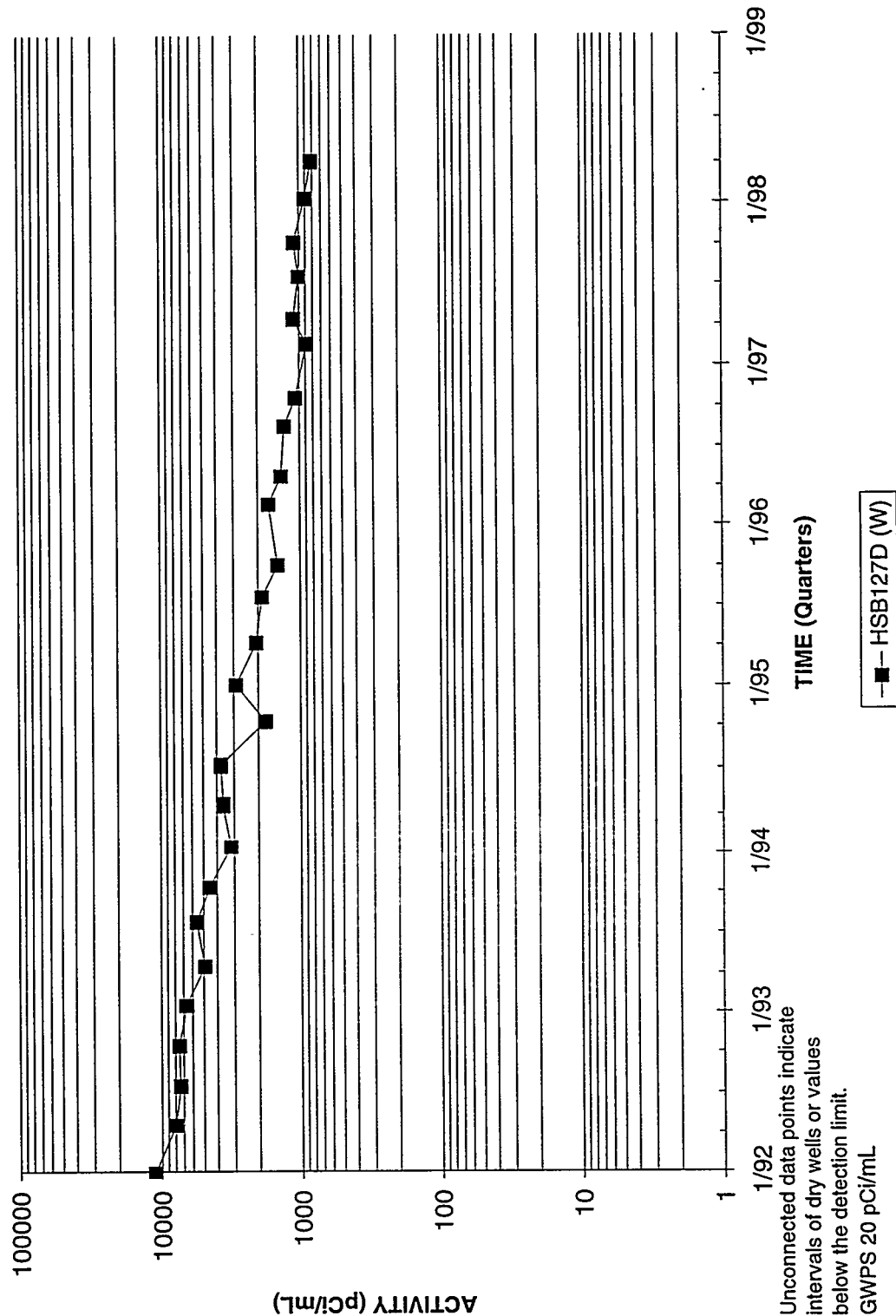
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HSB118A



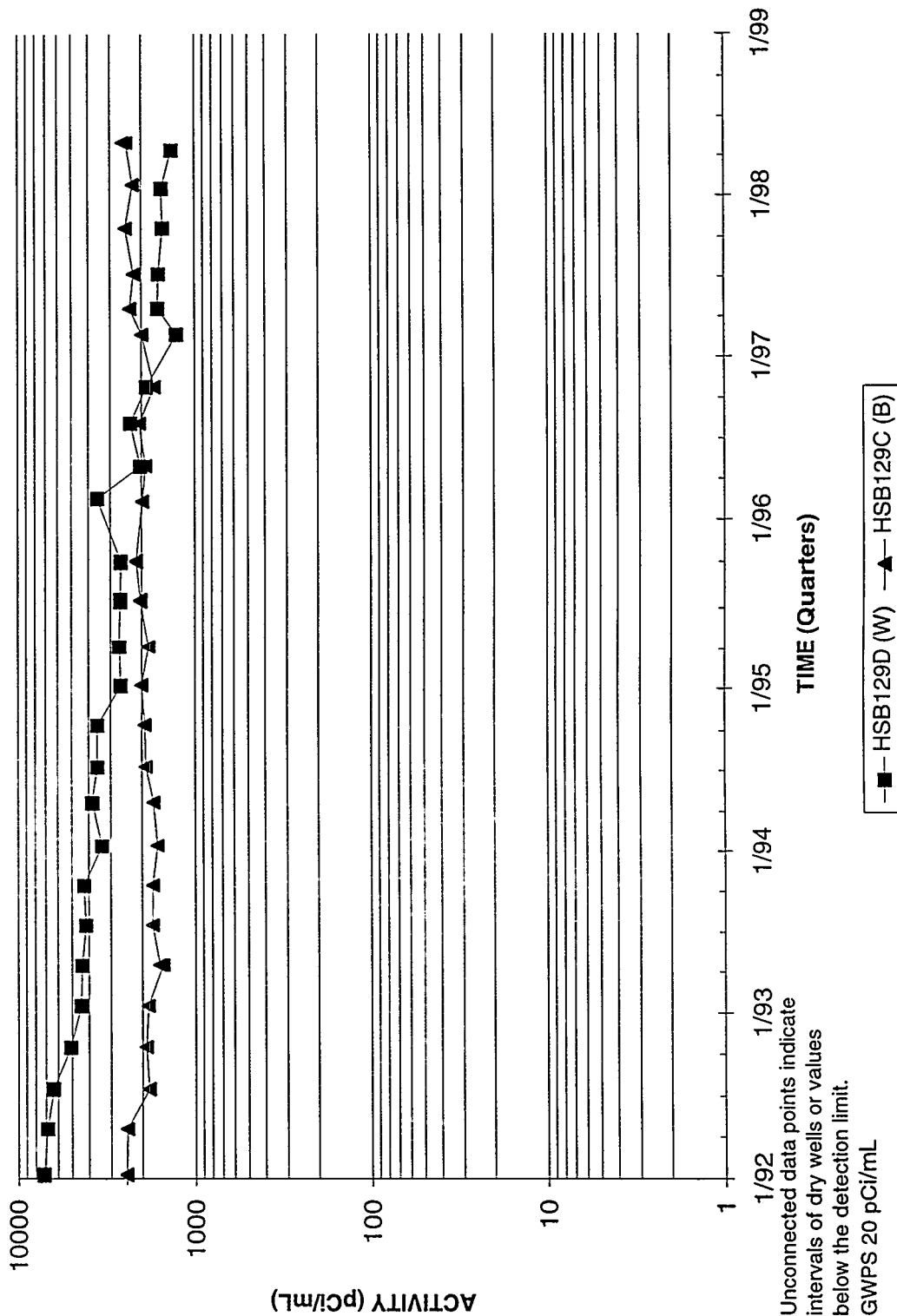
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HSB127D



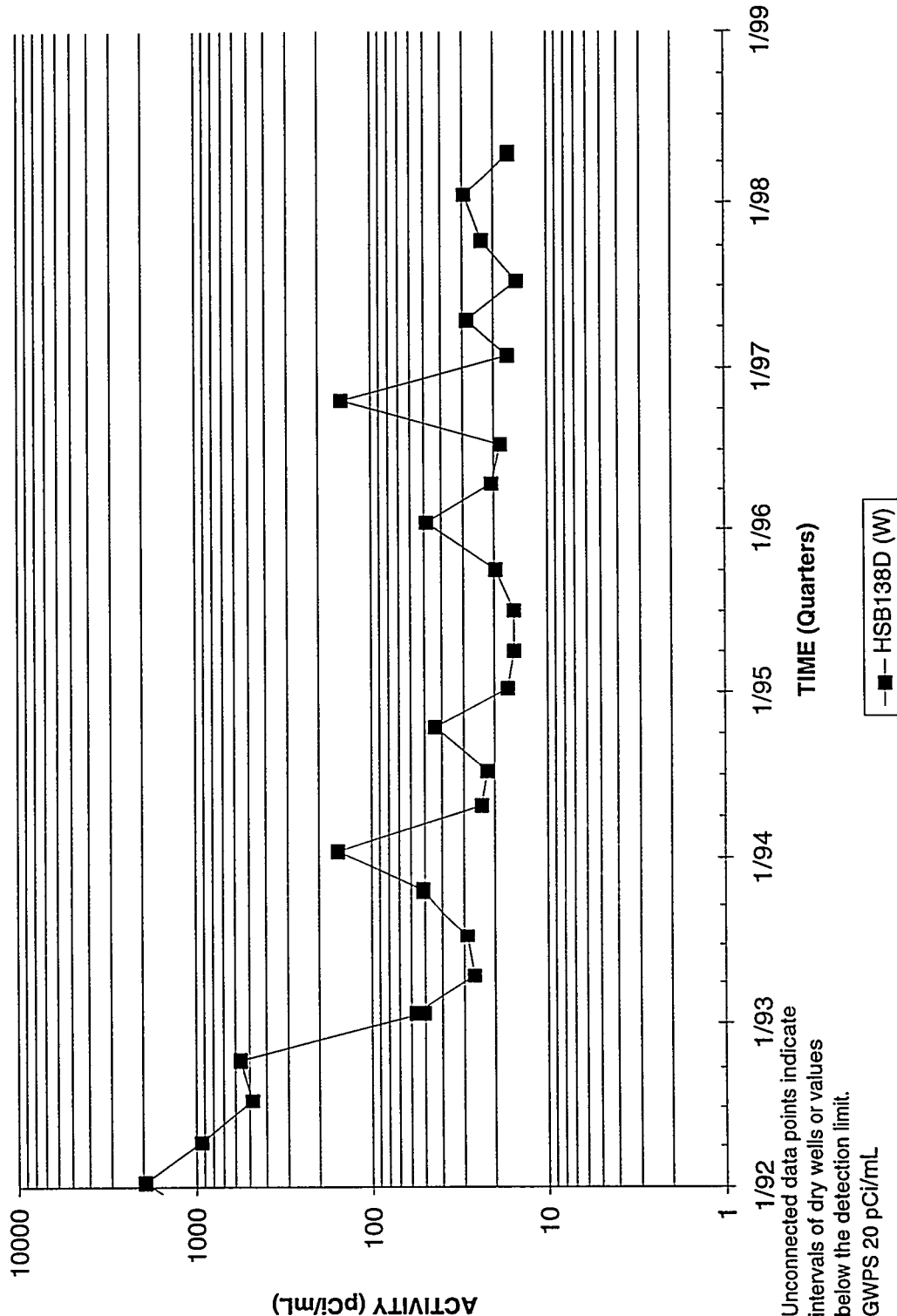
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster HSB129



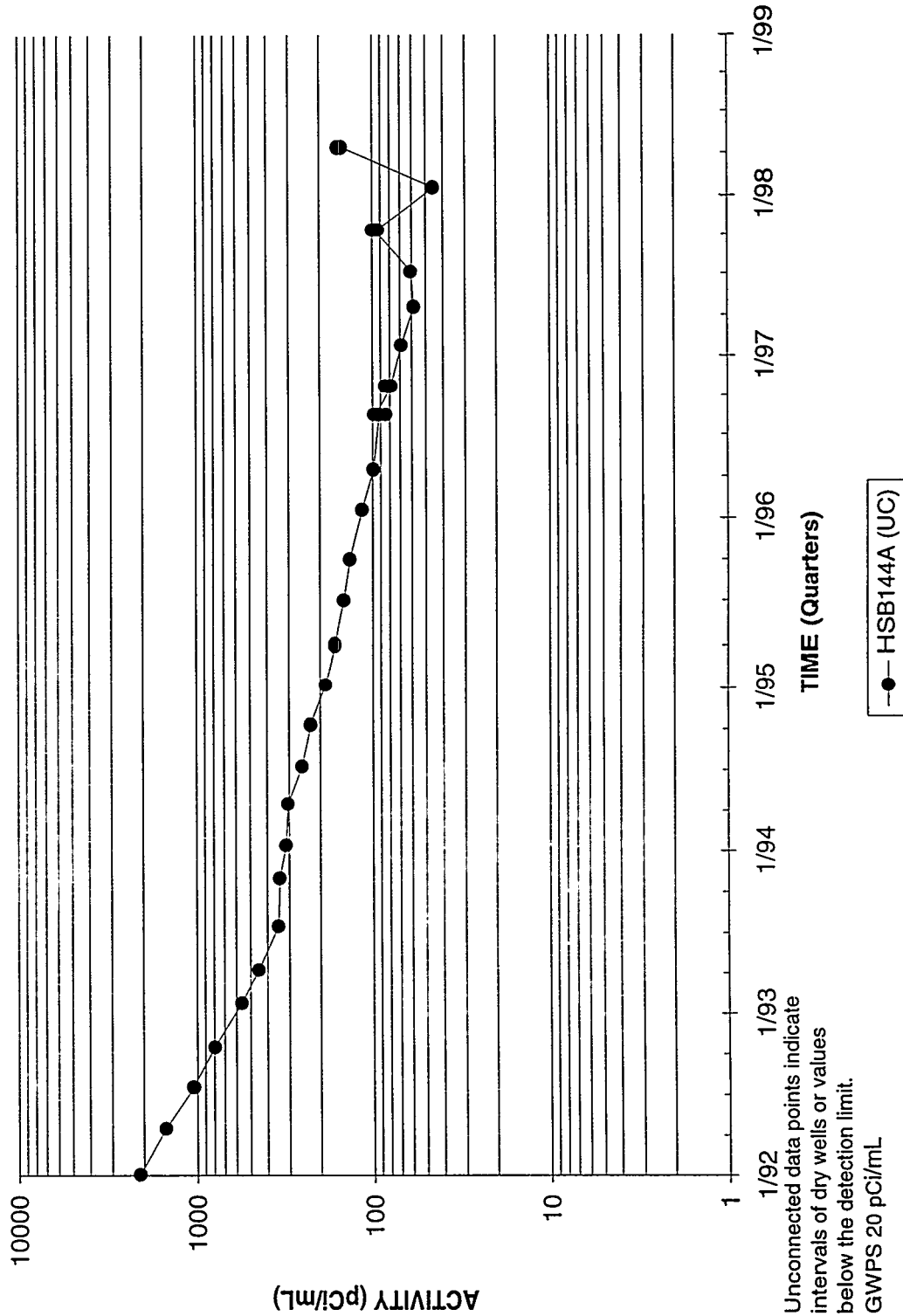
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HSB138D



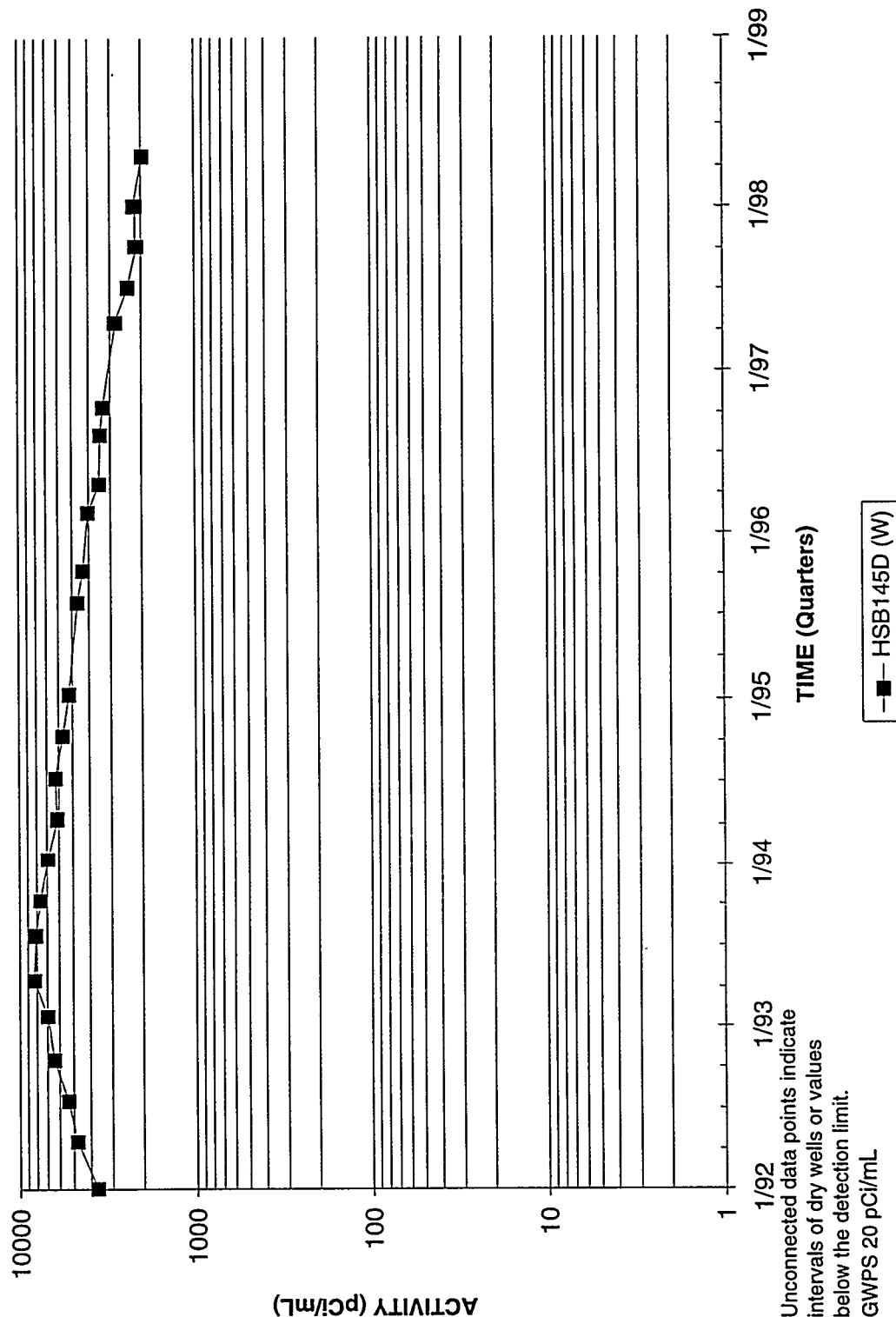
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HSB144A



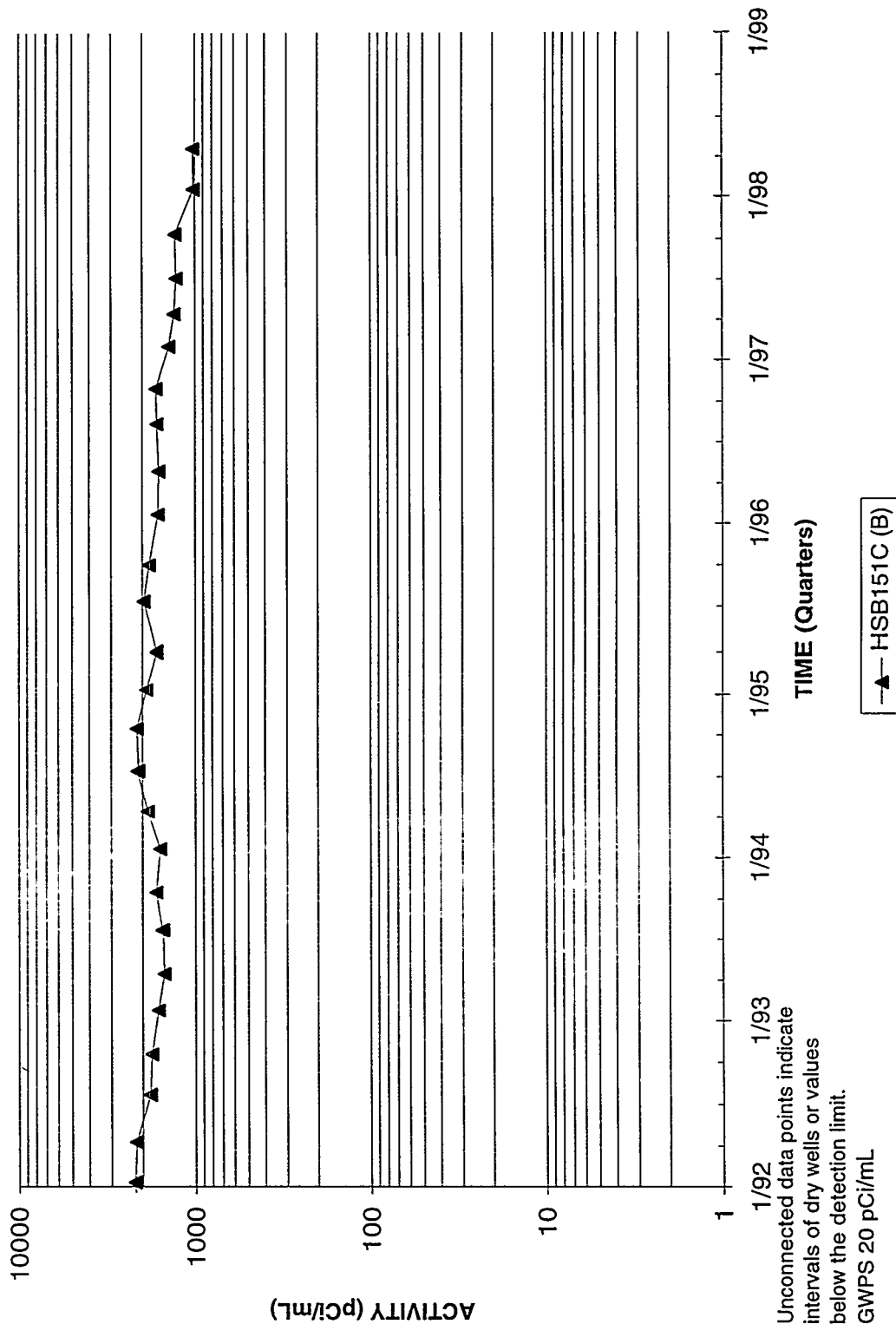
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HSB145D



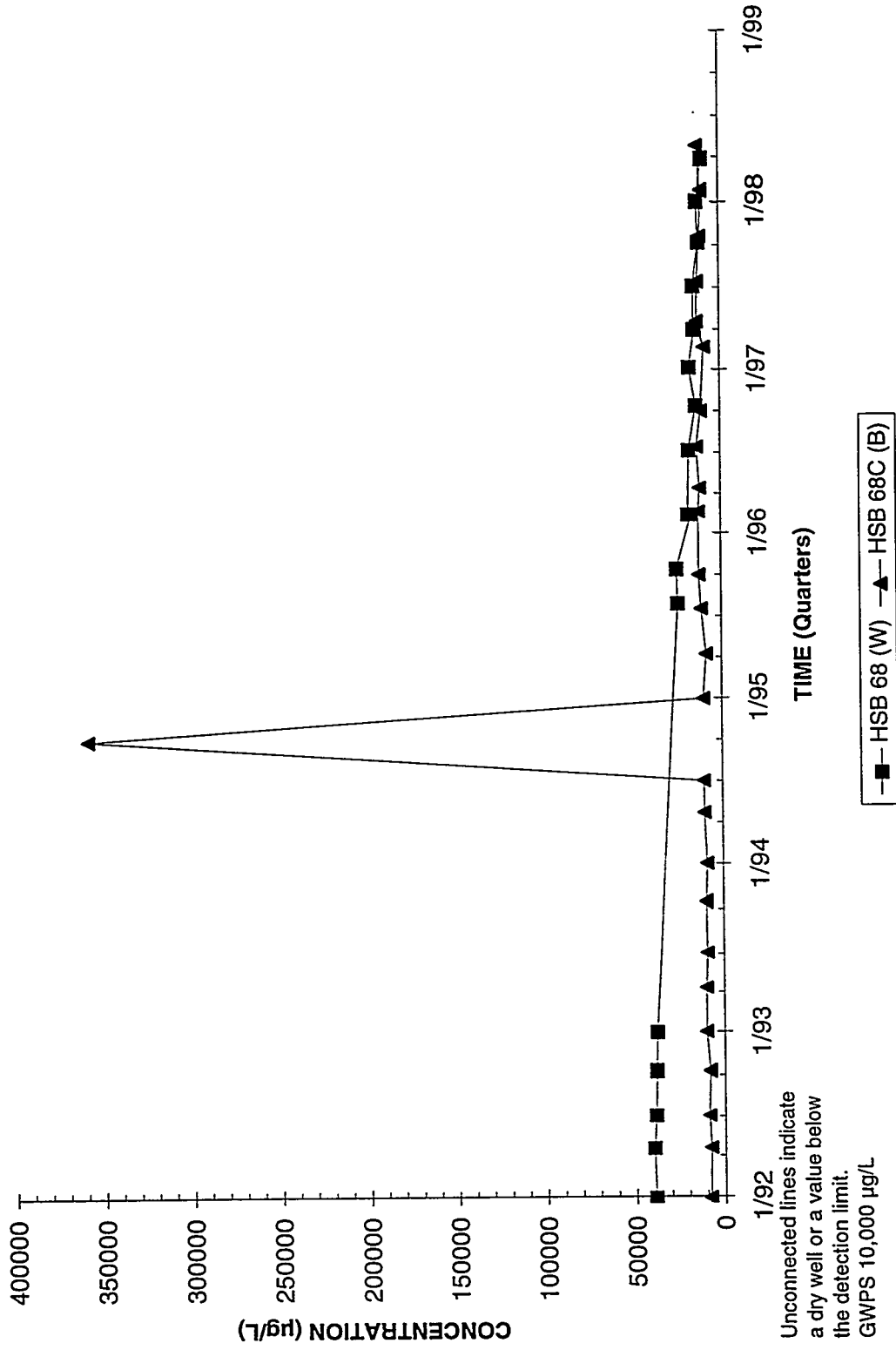
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well HSB151C



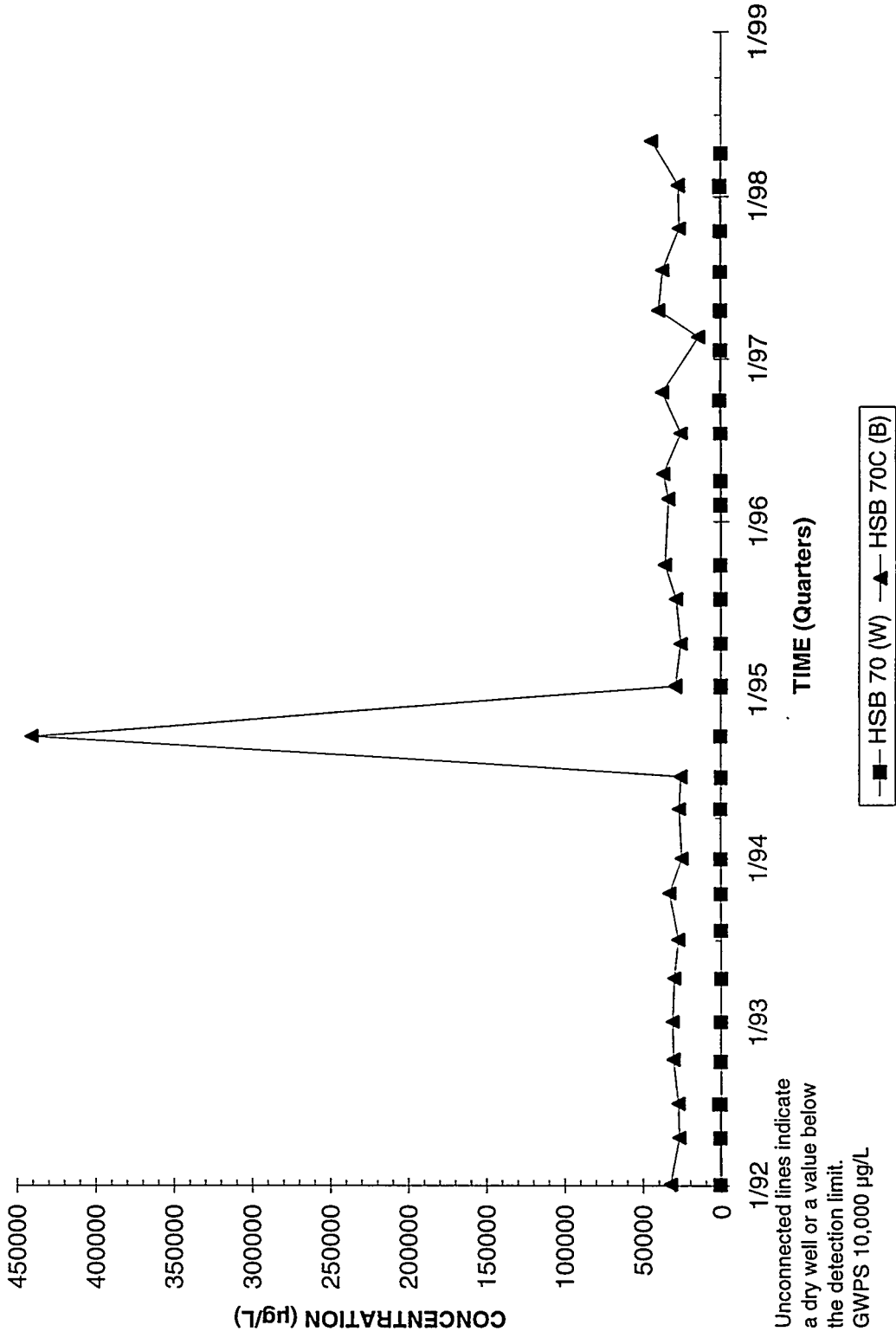
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB 68



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



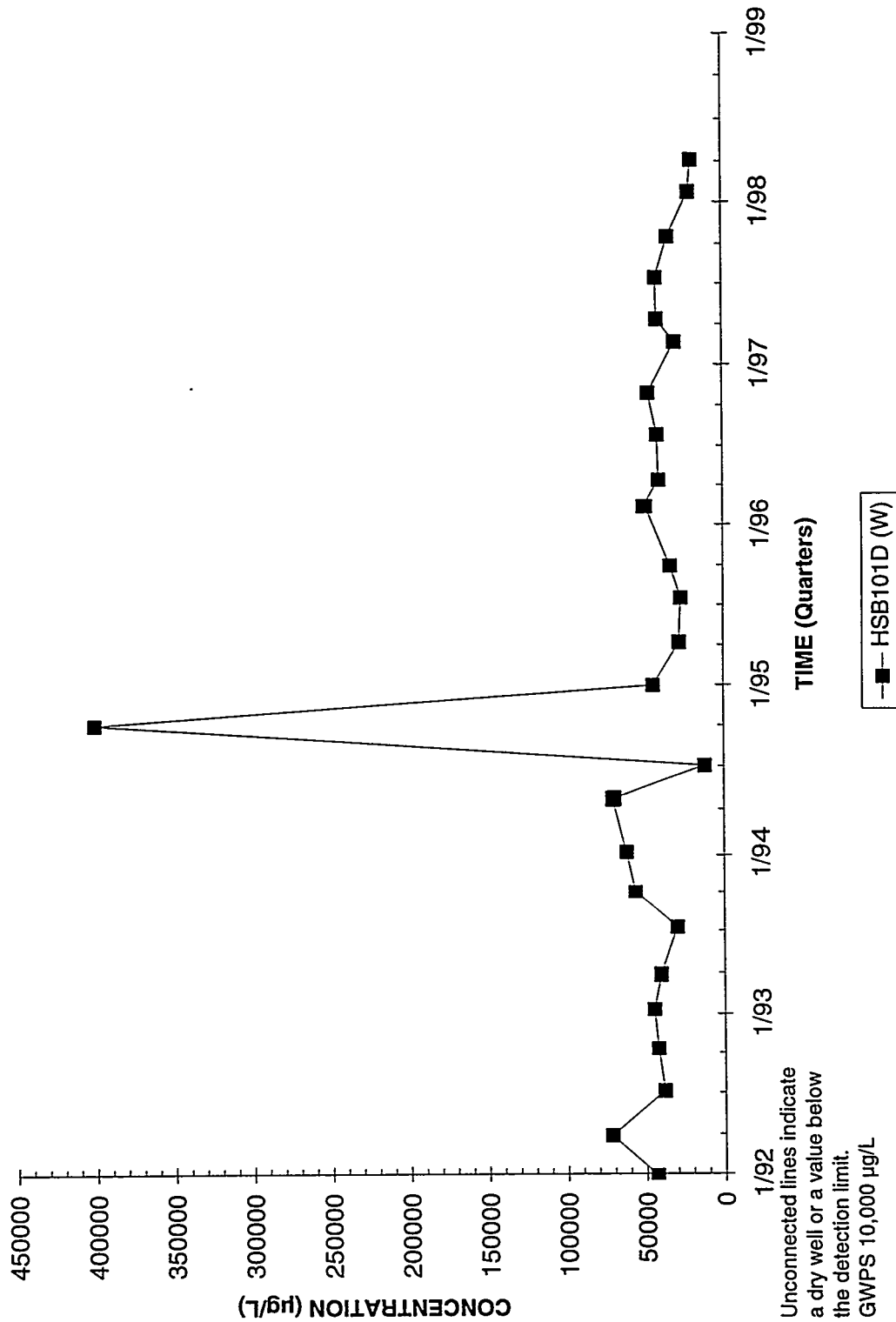
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

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1 20

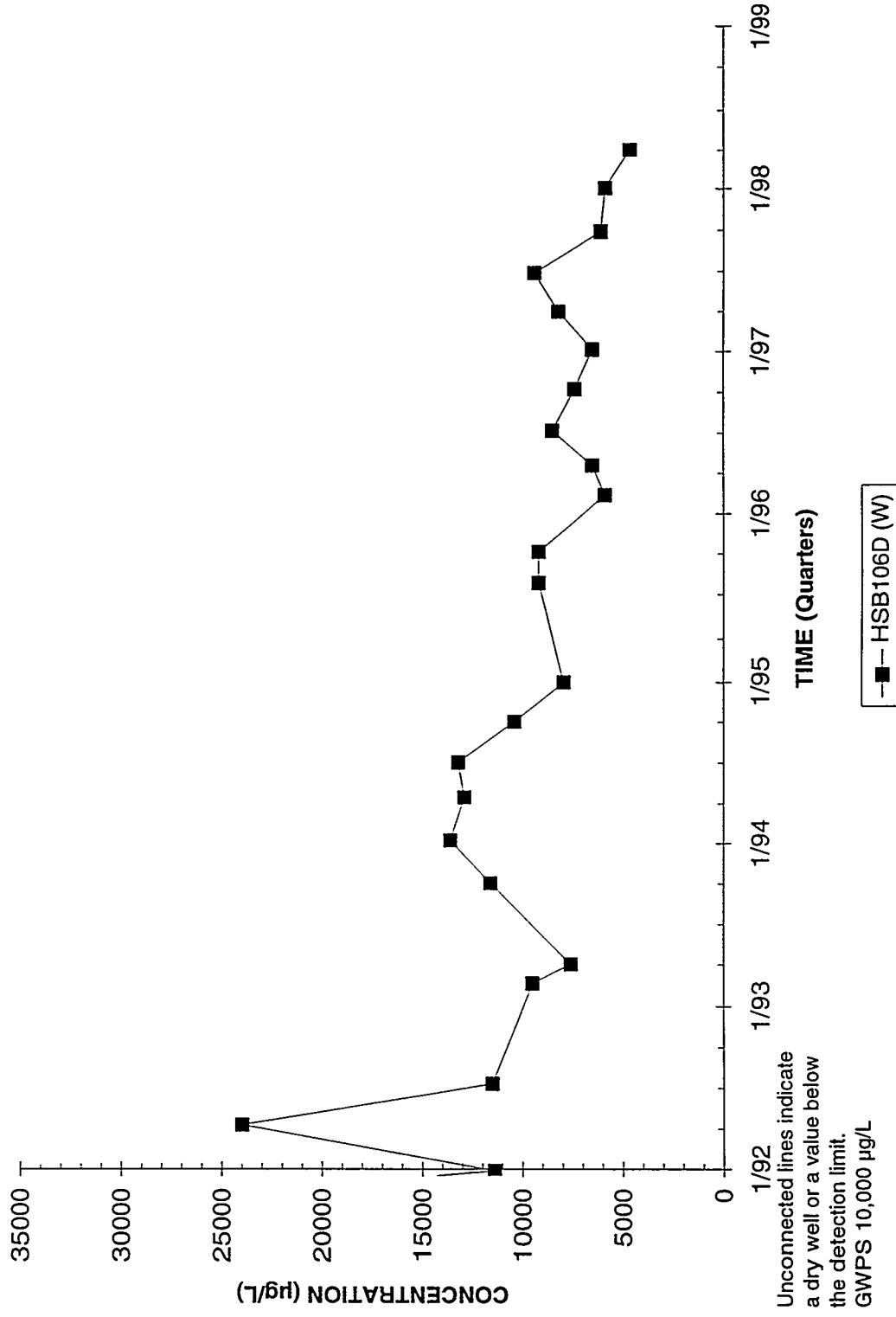
First and Second Qu: ~ 1998

Nitrate Concentrations Well HSB101D



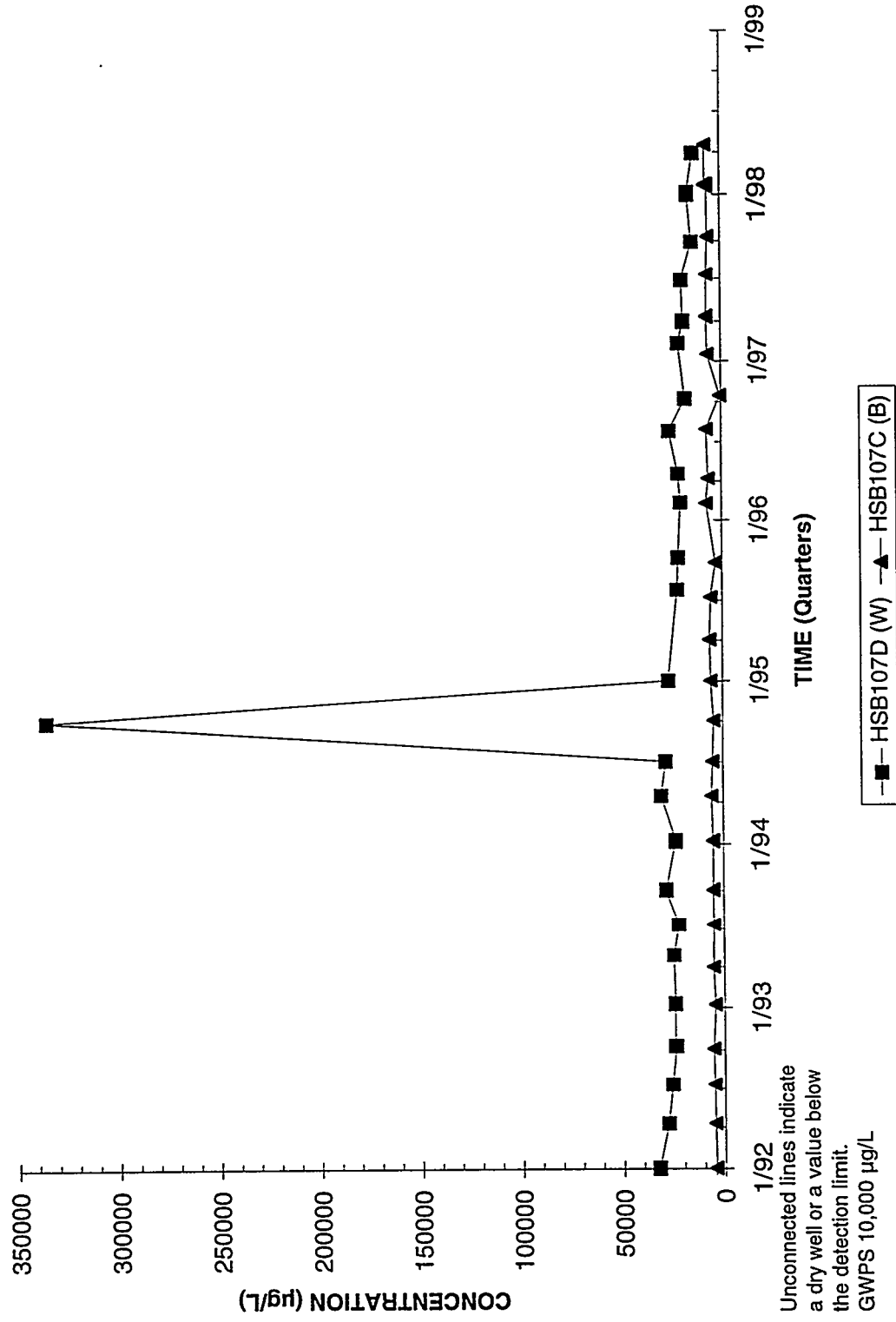
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well HSB106D



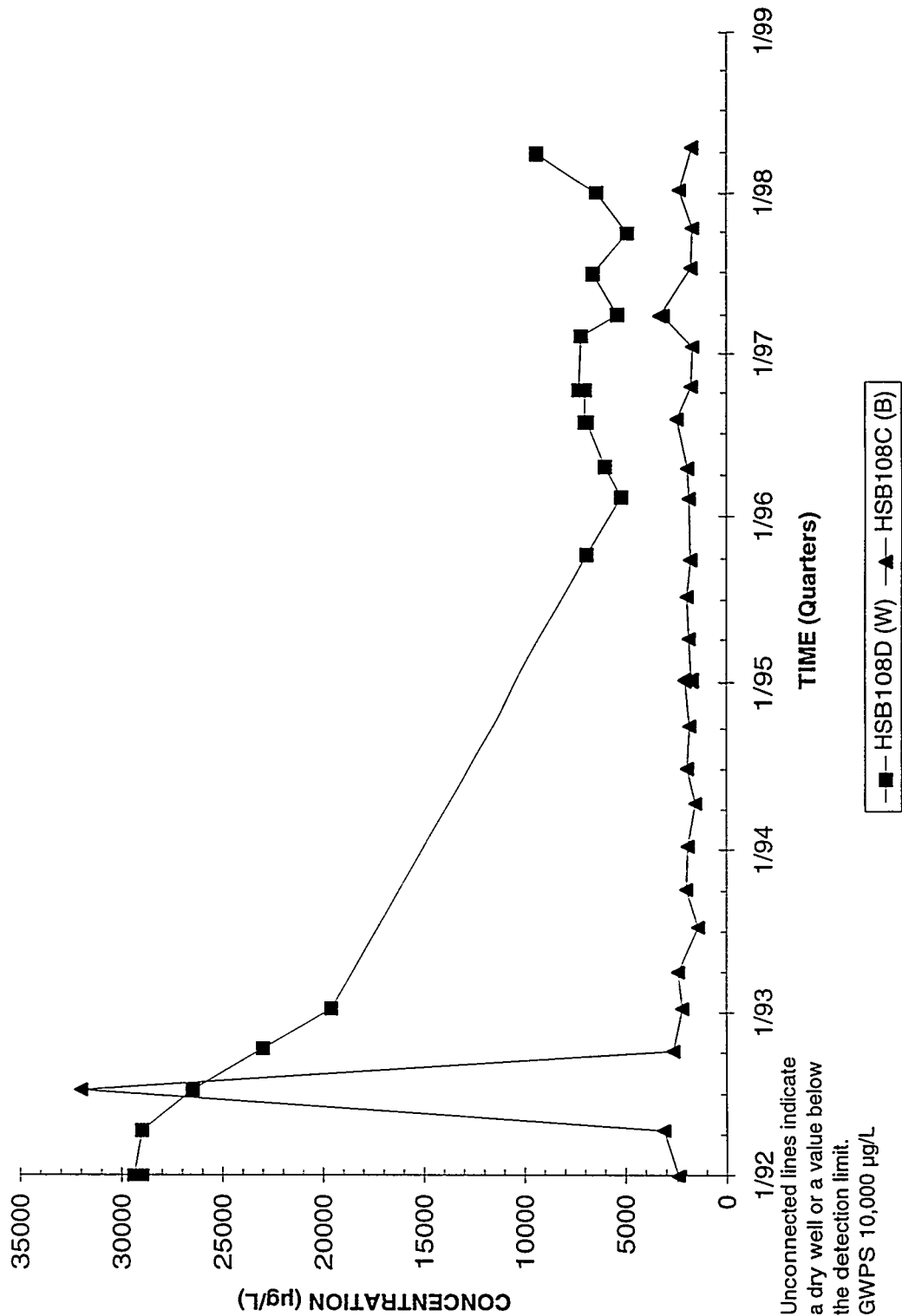
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB107



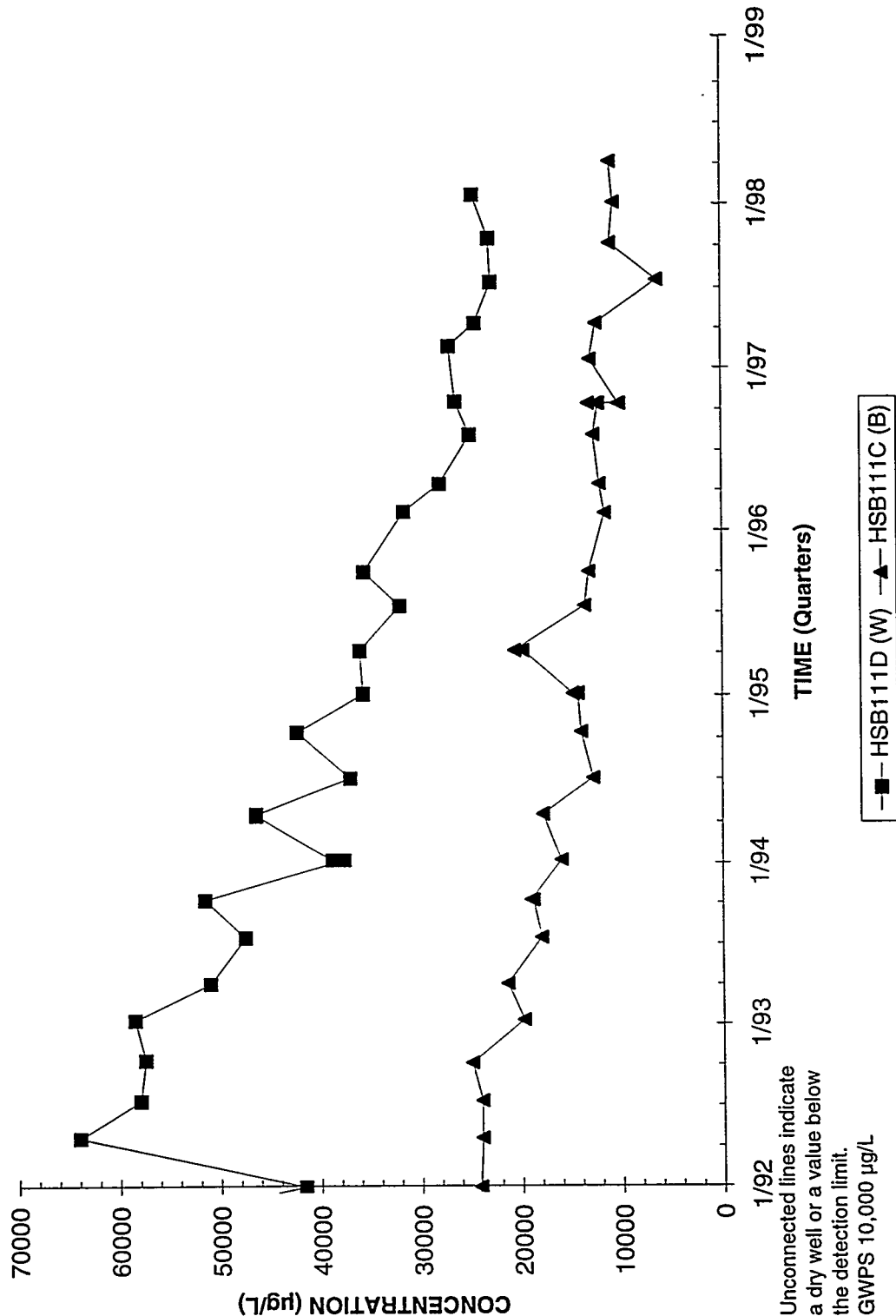
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB108



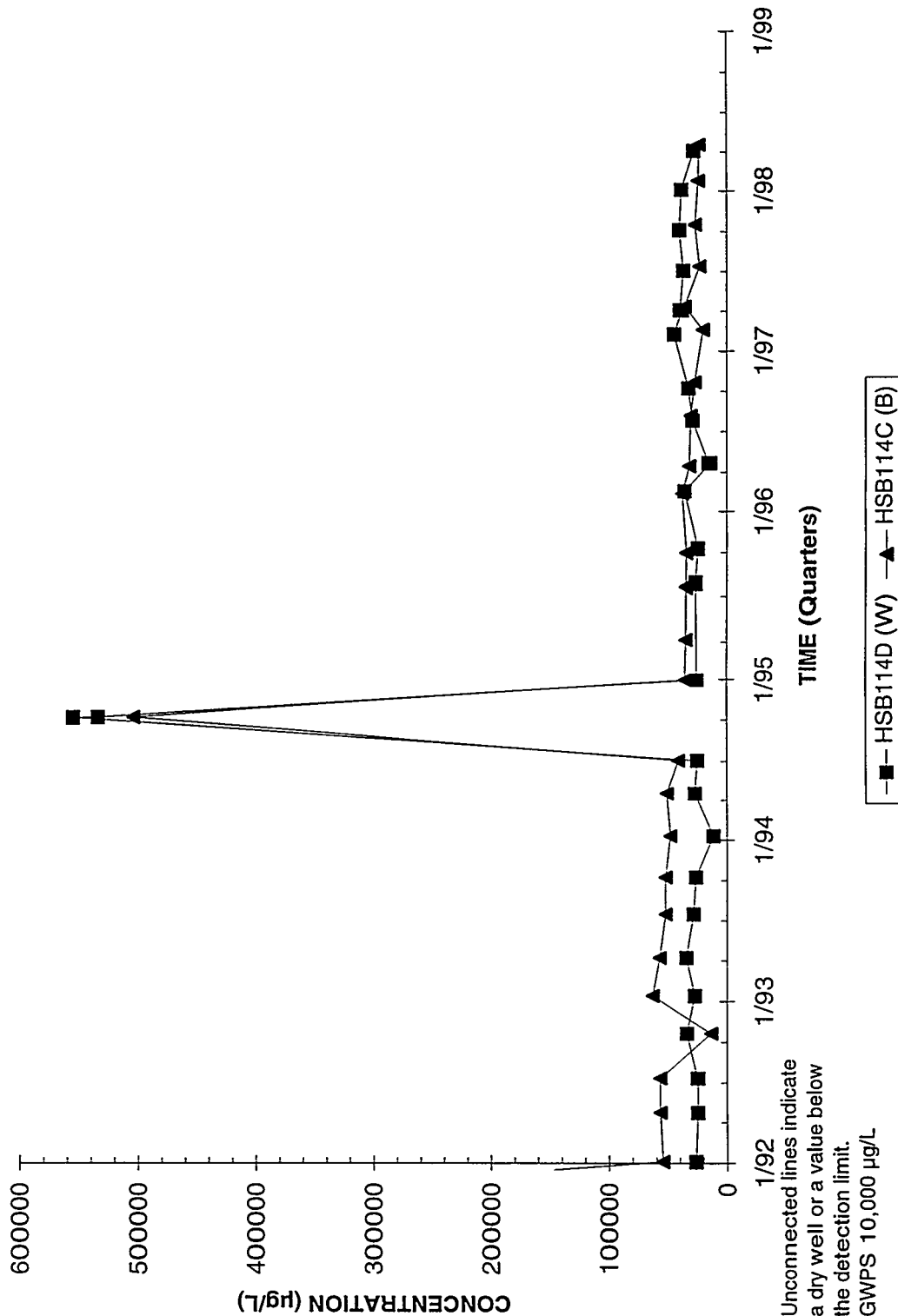
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB111



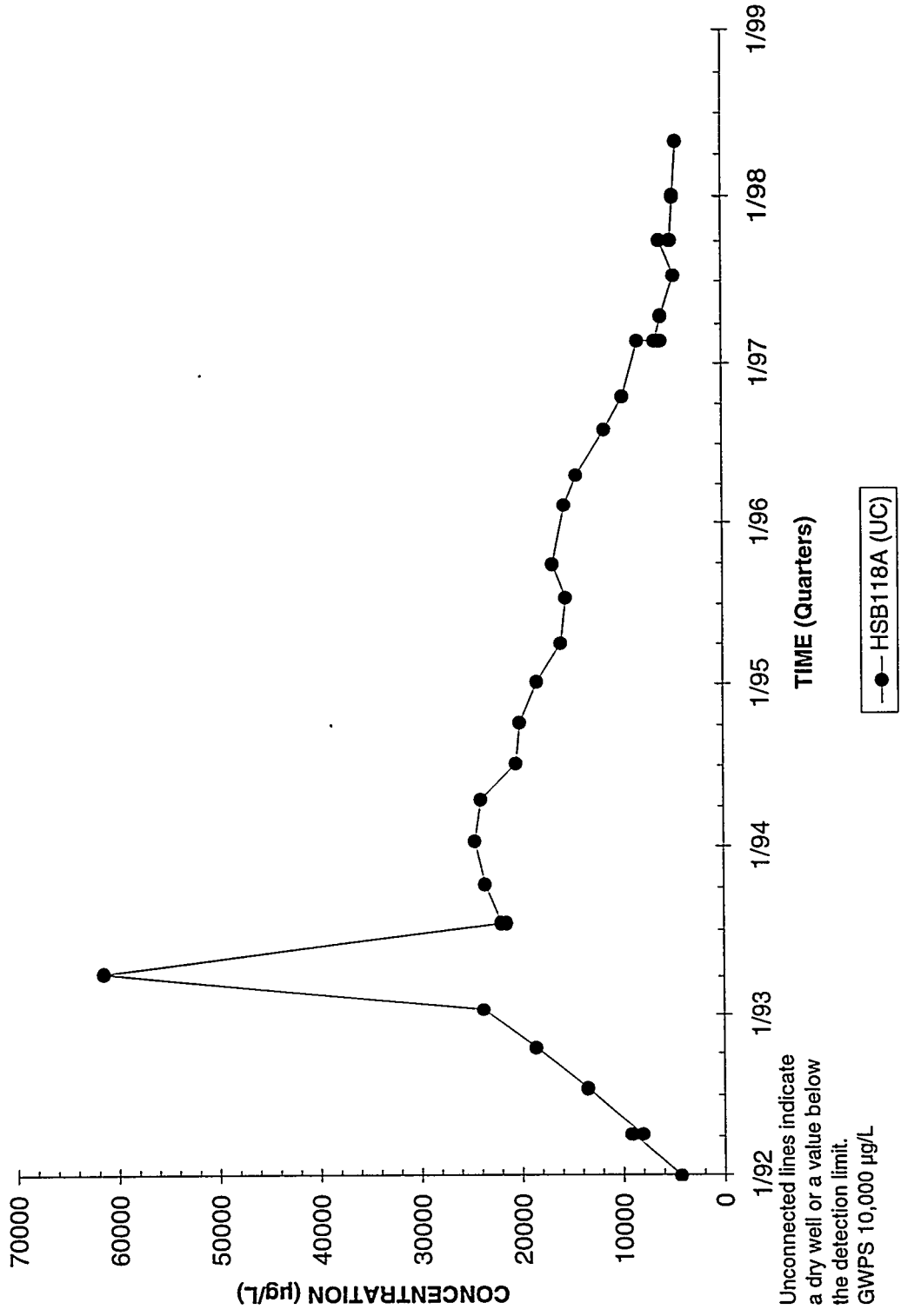
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB114



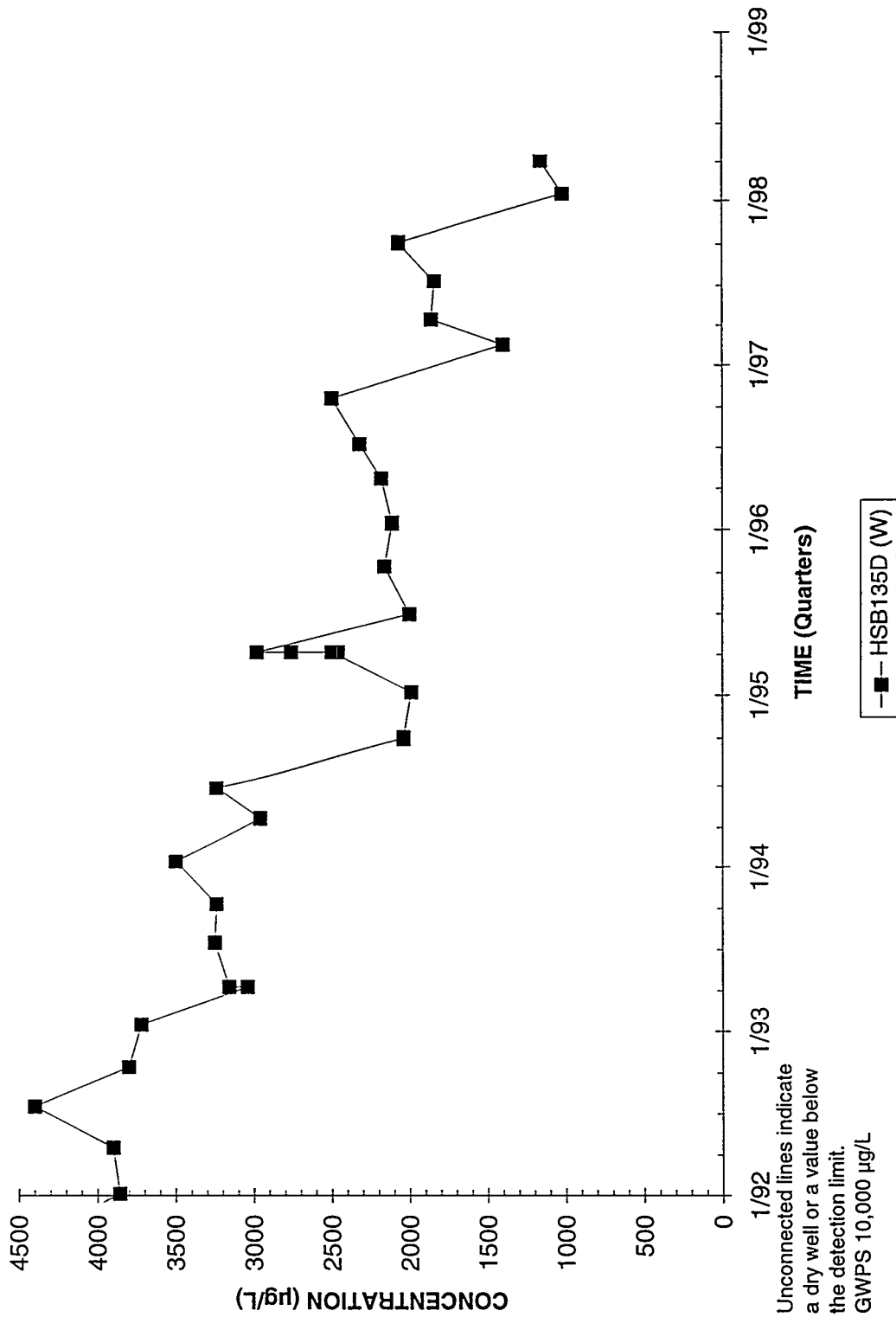
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well HSB118A



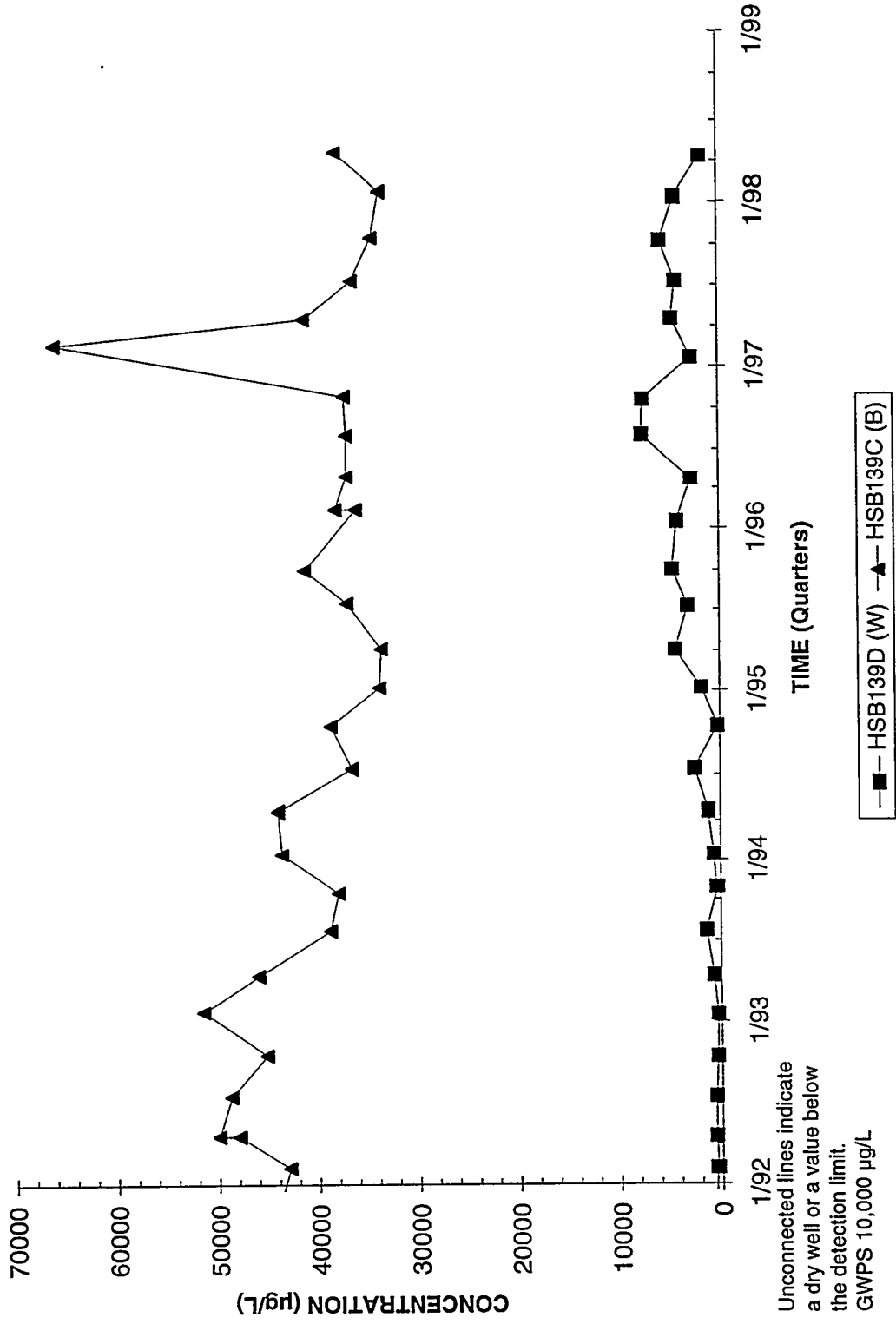
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well HSB135D



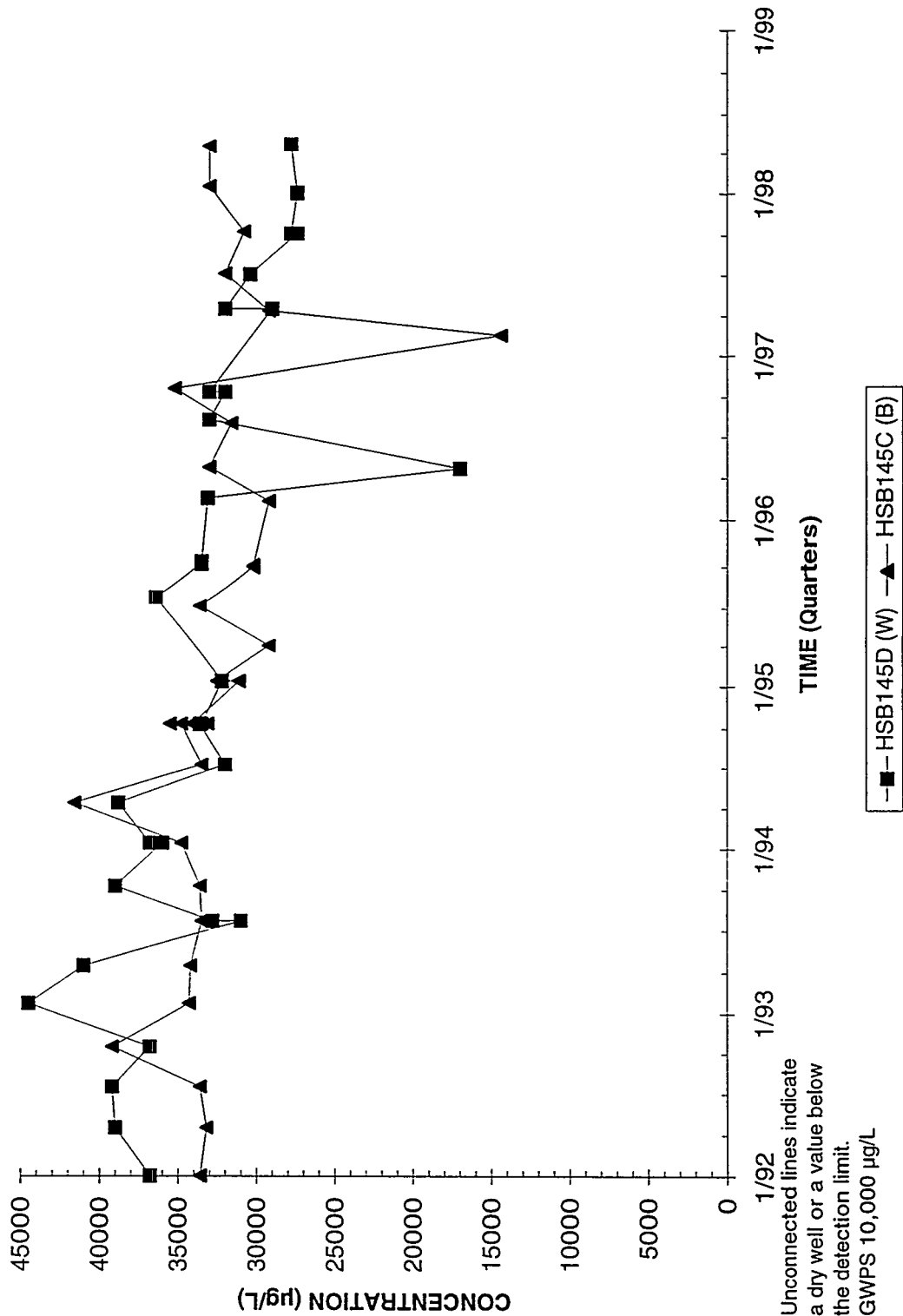
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB139



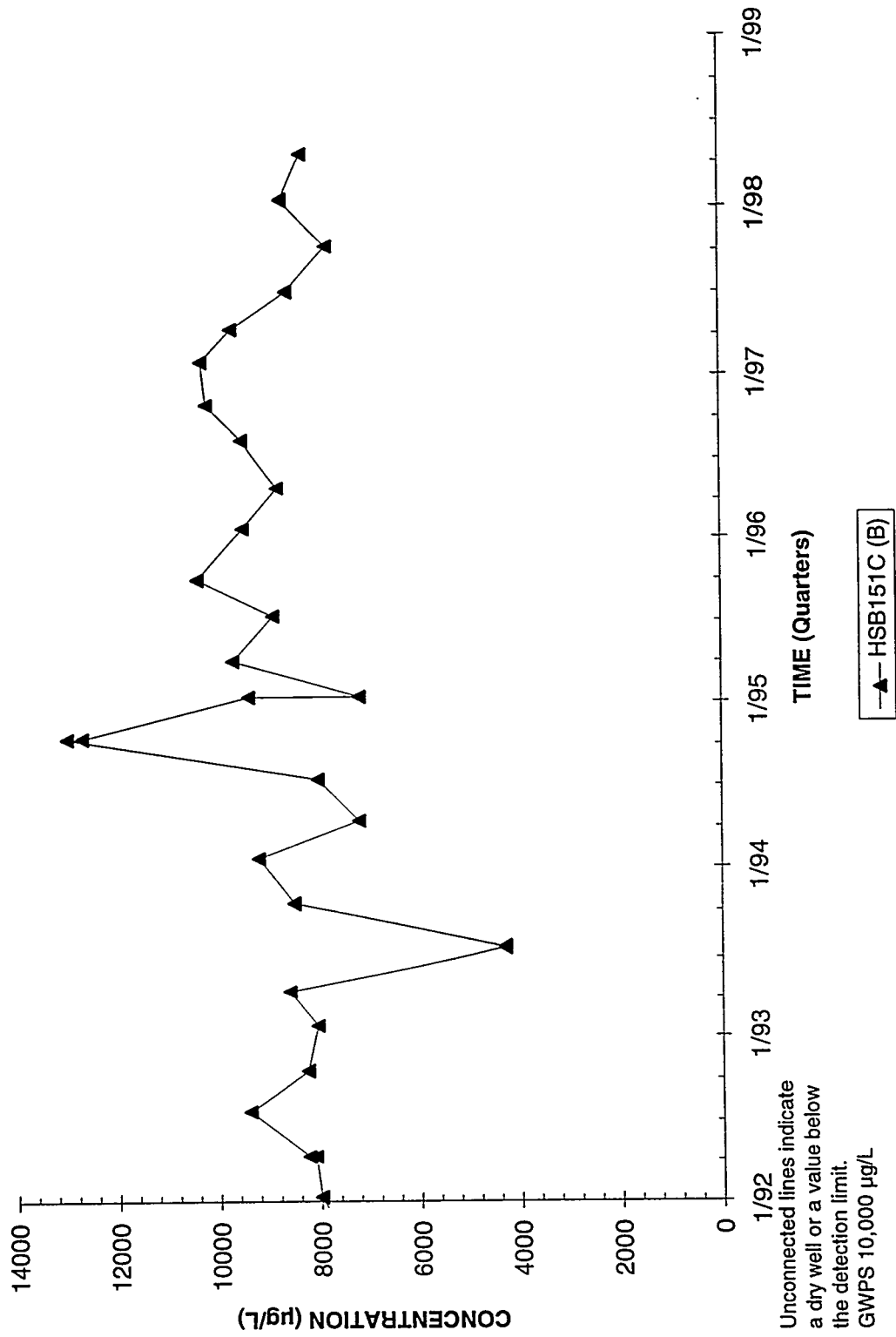
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well Cluster HSB145



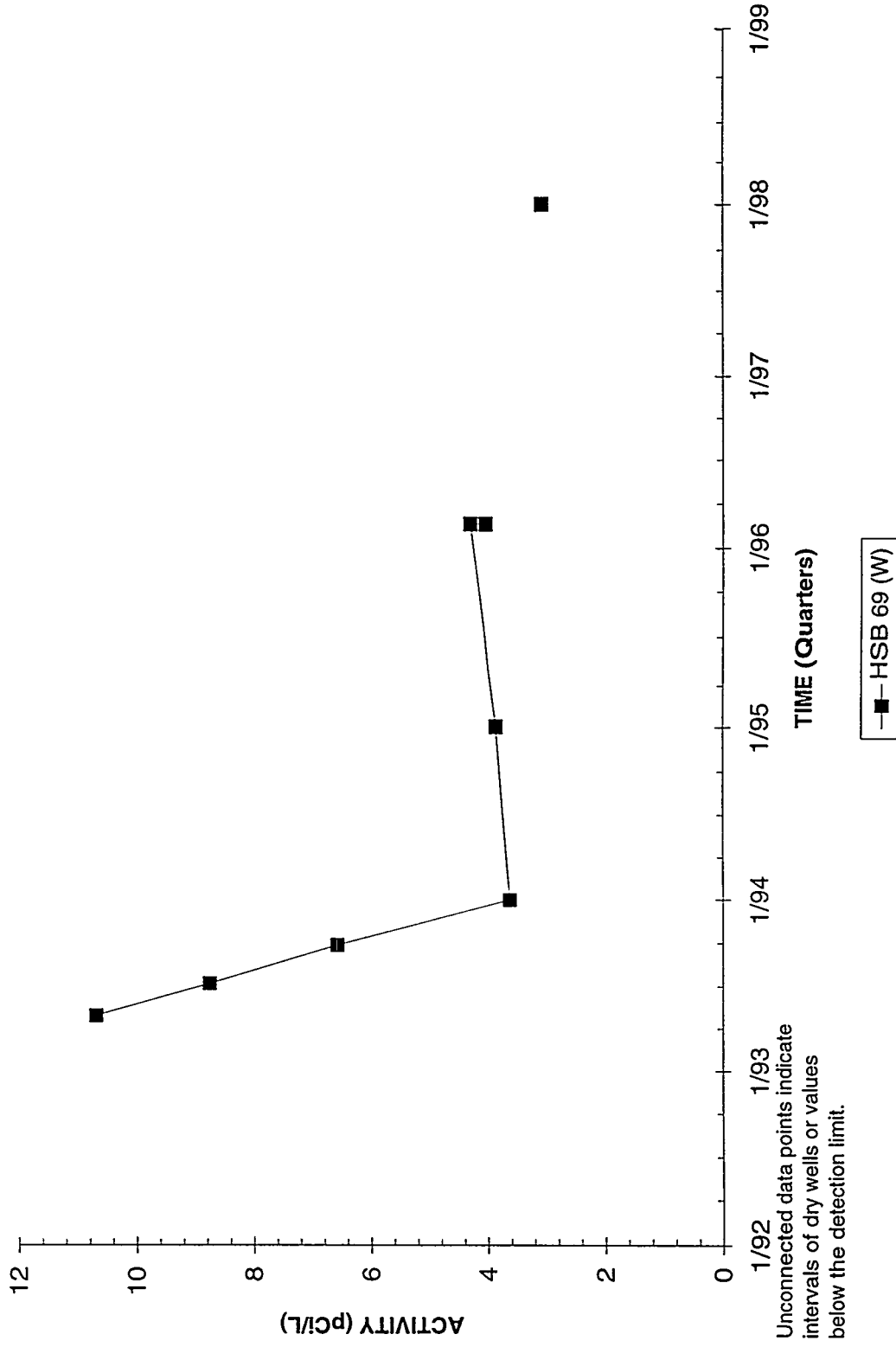
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well HSB151C



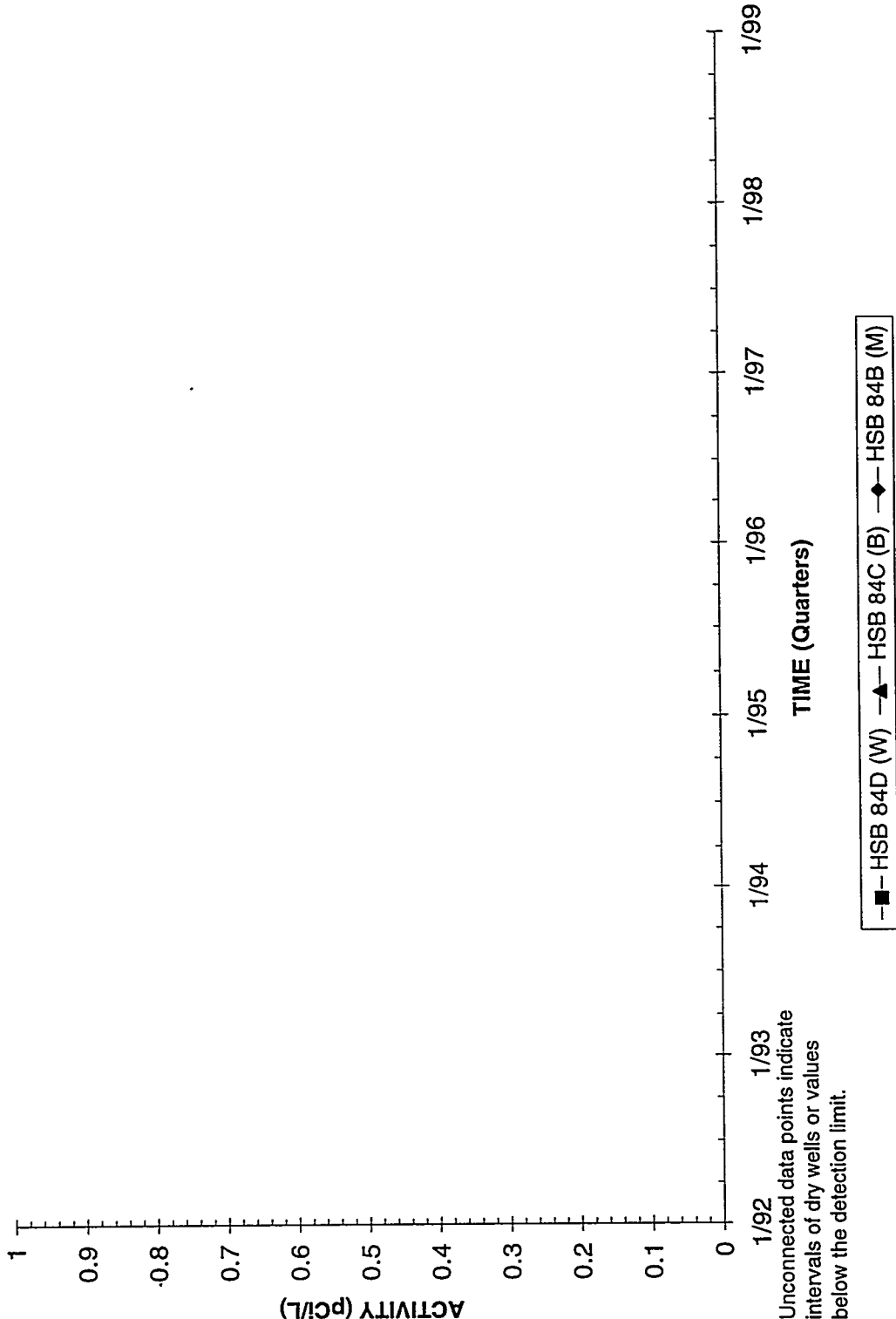
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well HSB 69



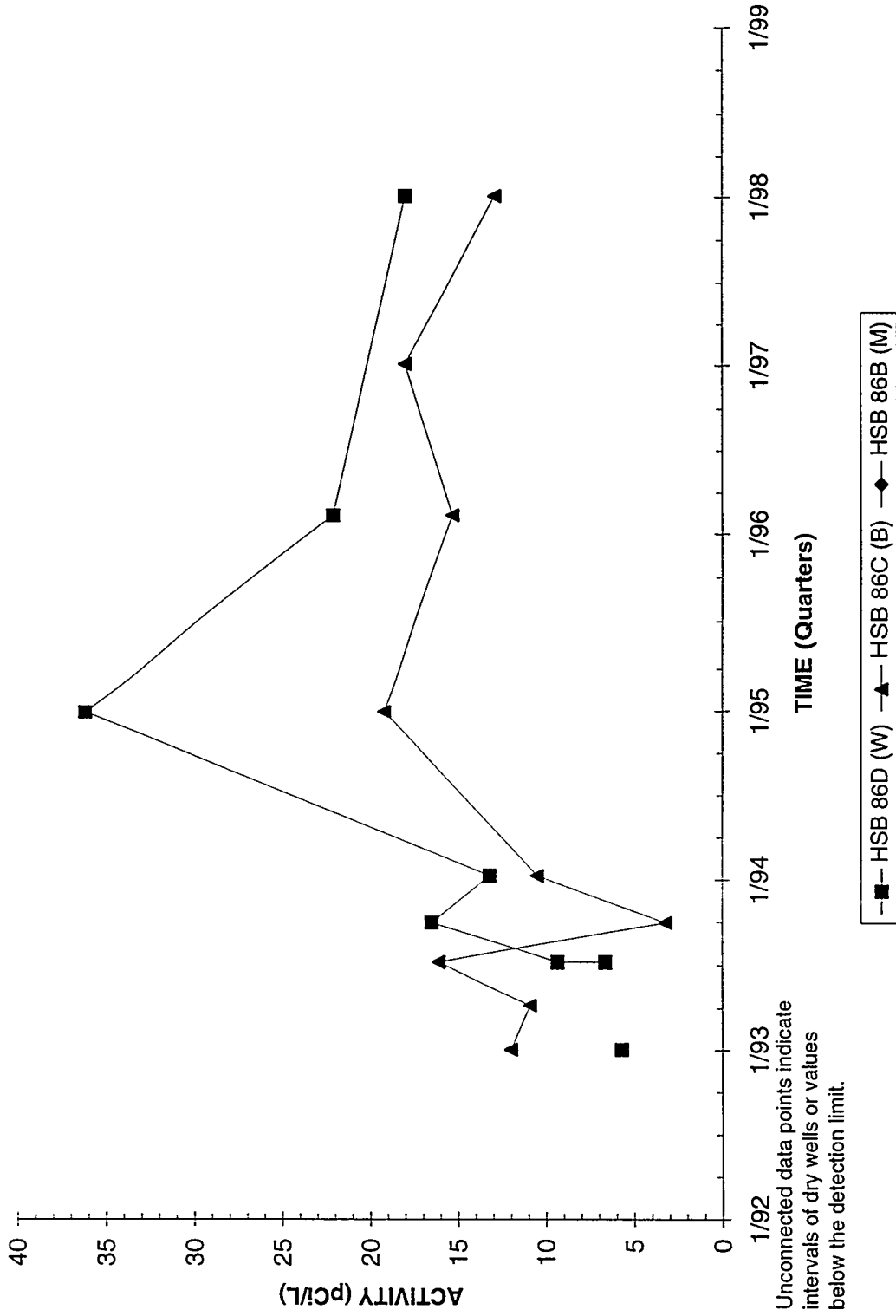
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB 84



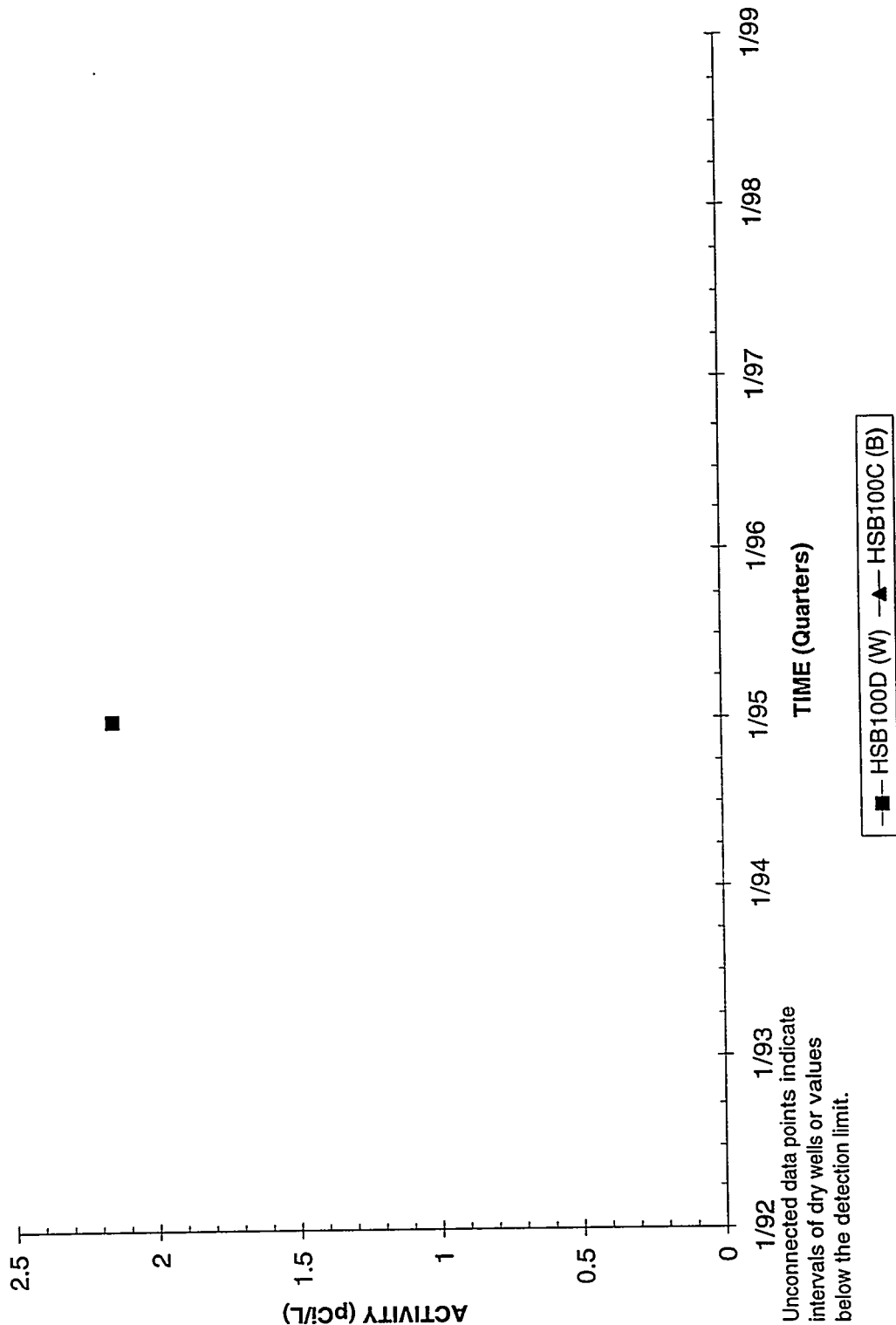
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB 86



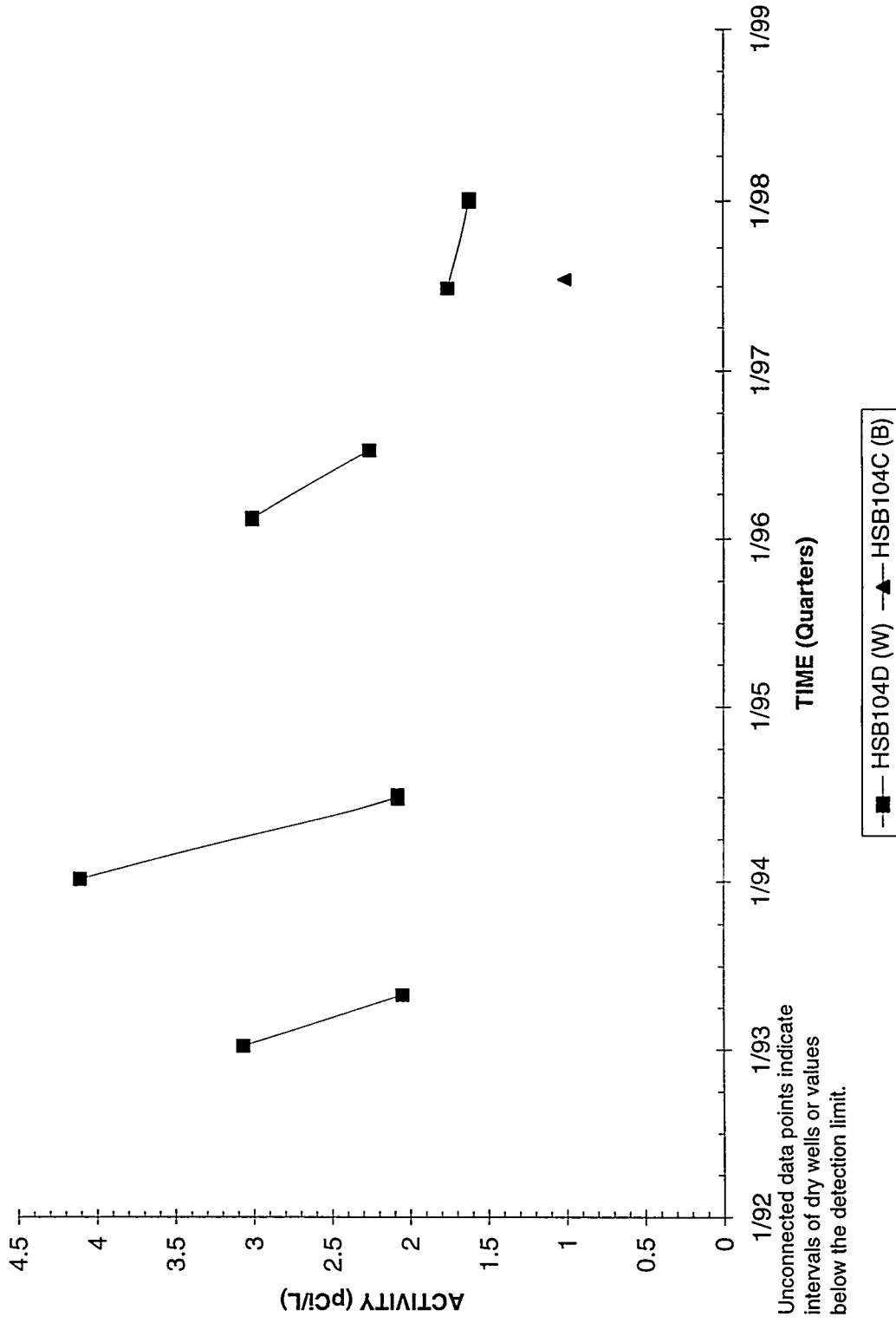
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB100



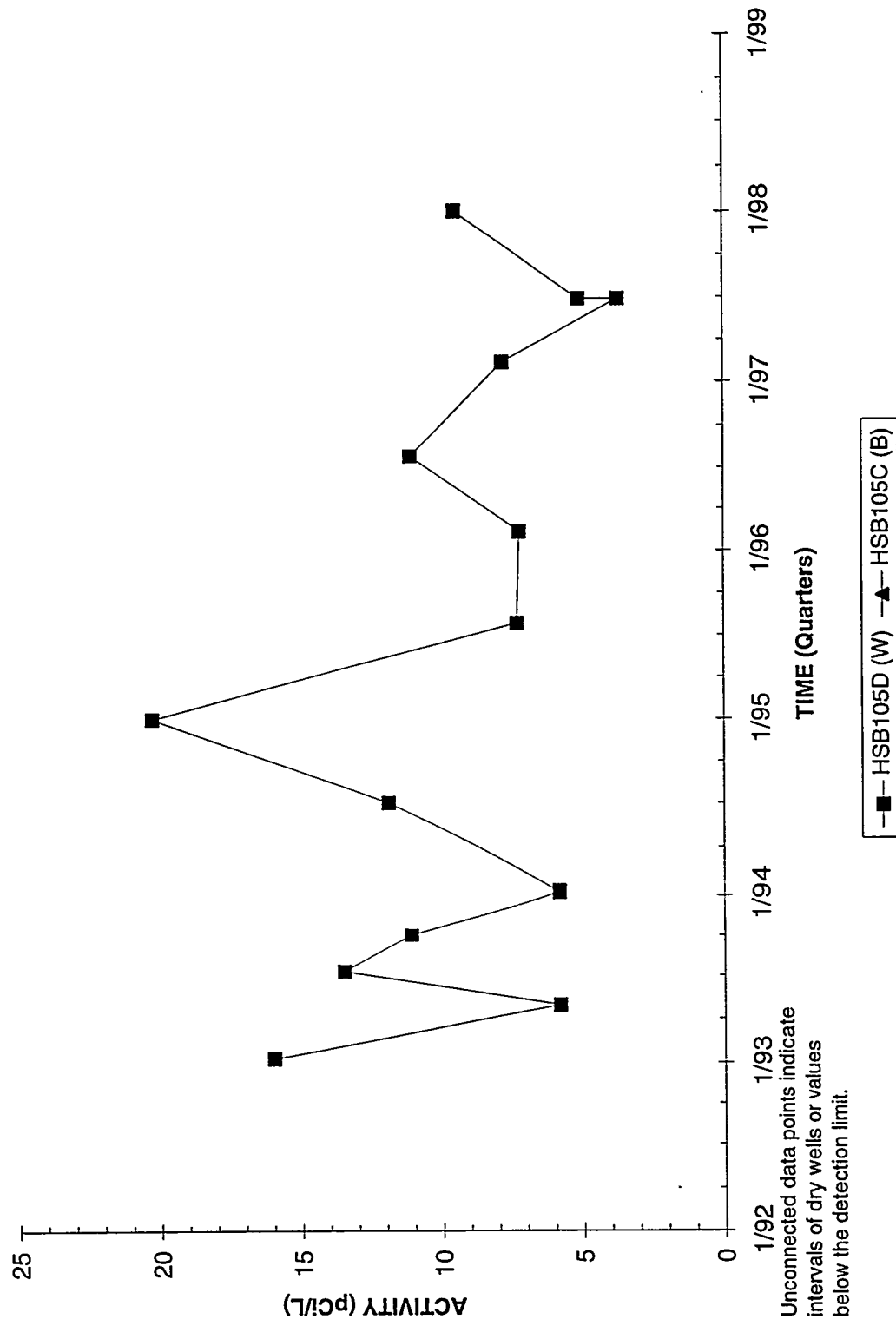
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB104



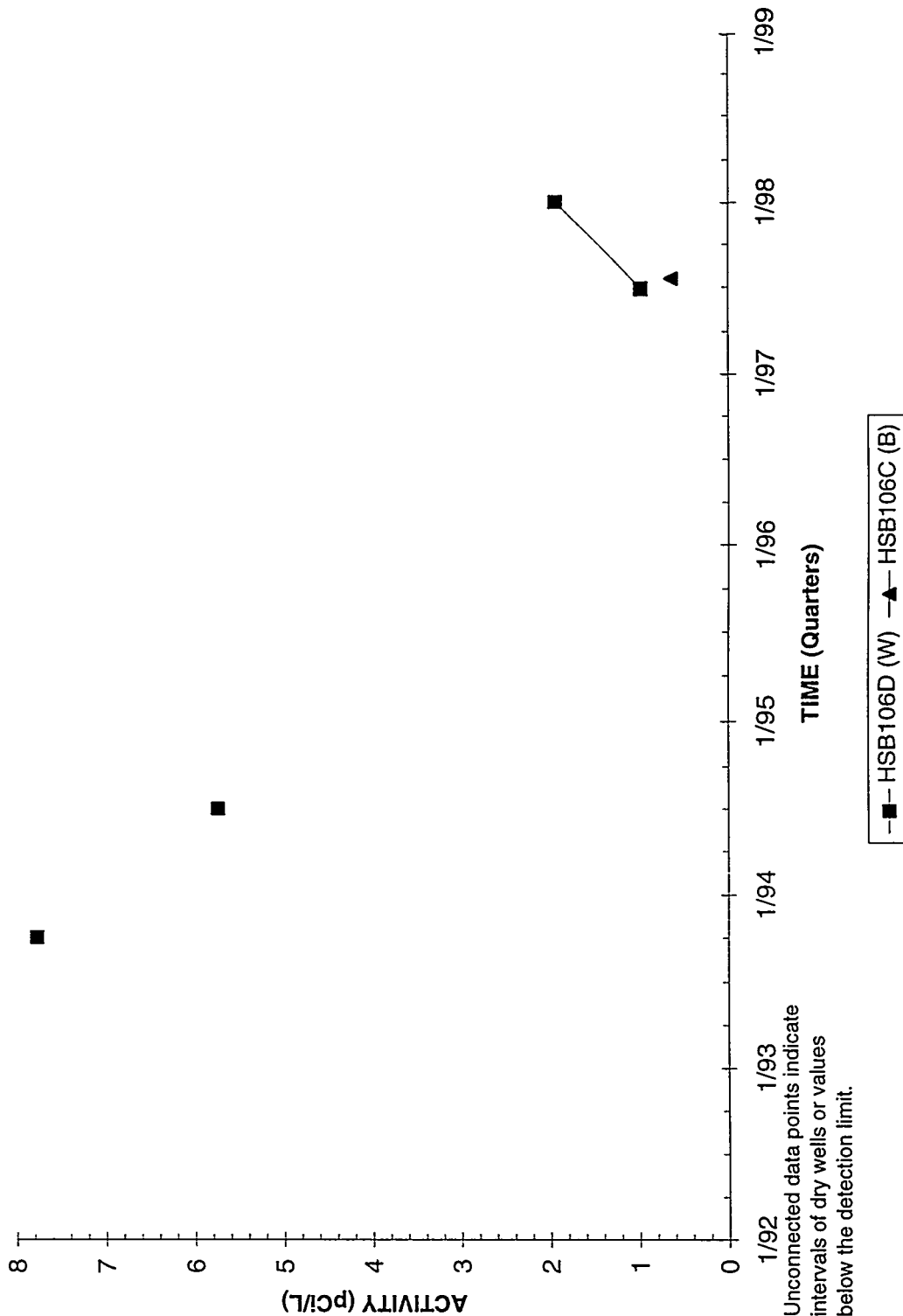
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB105



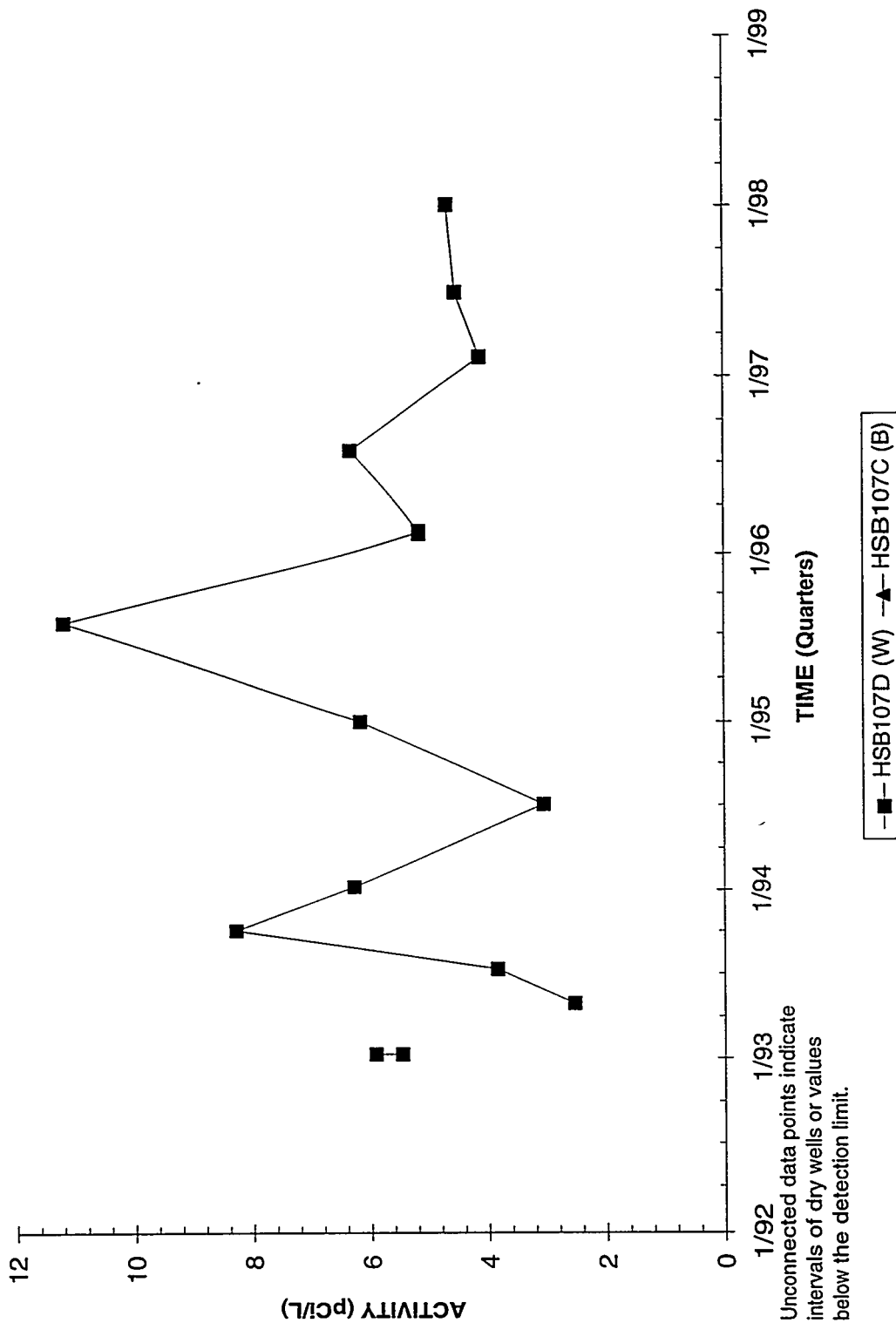
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB106



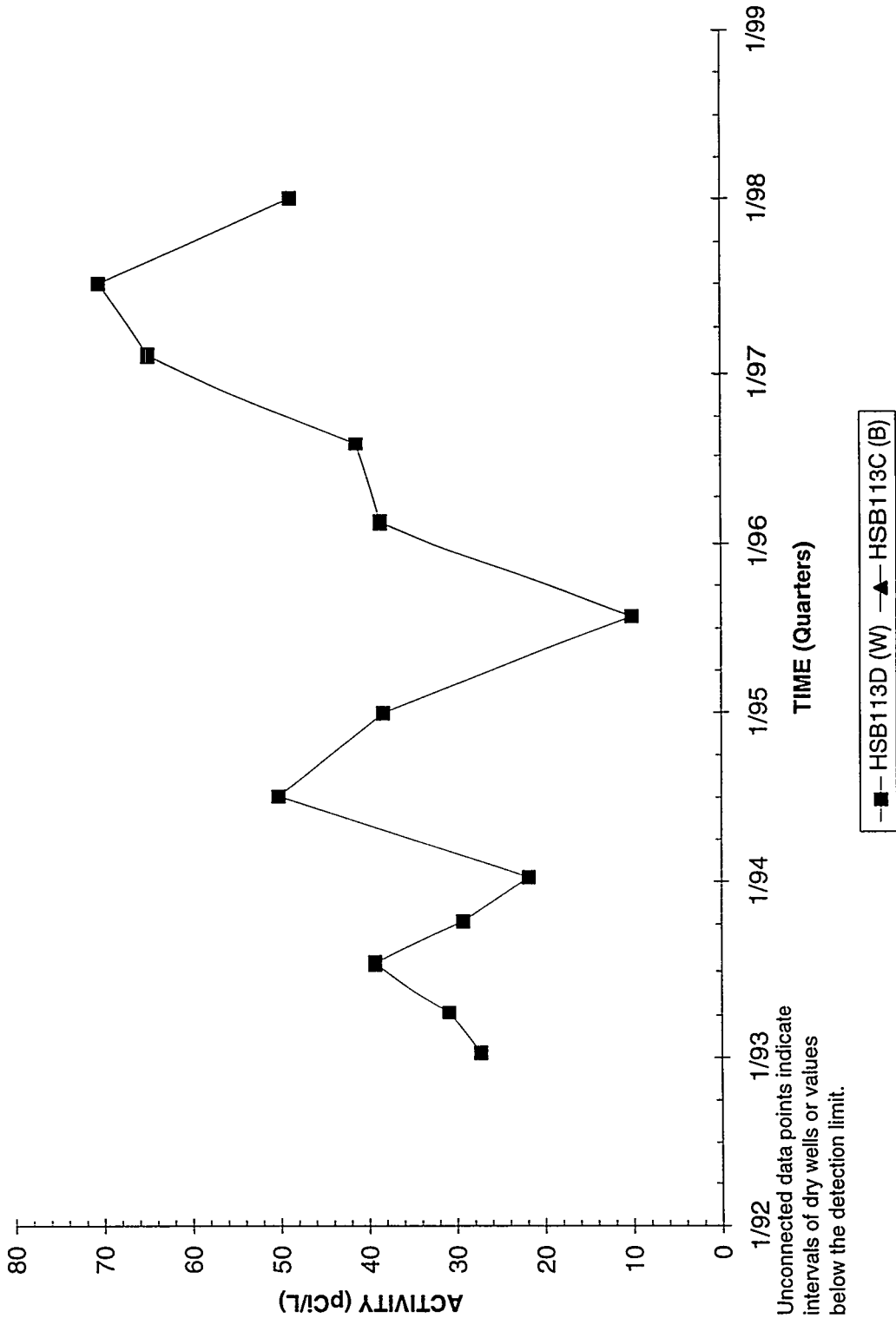
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB107



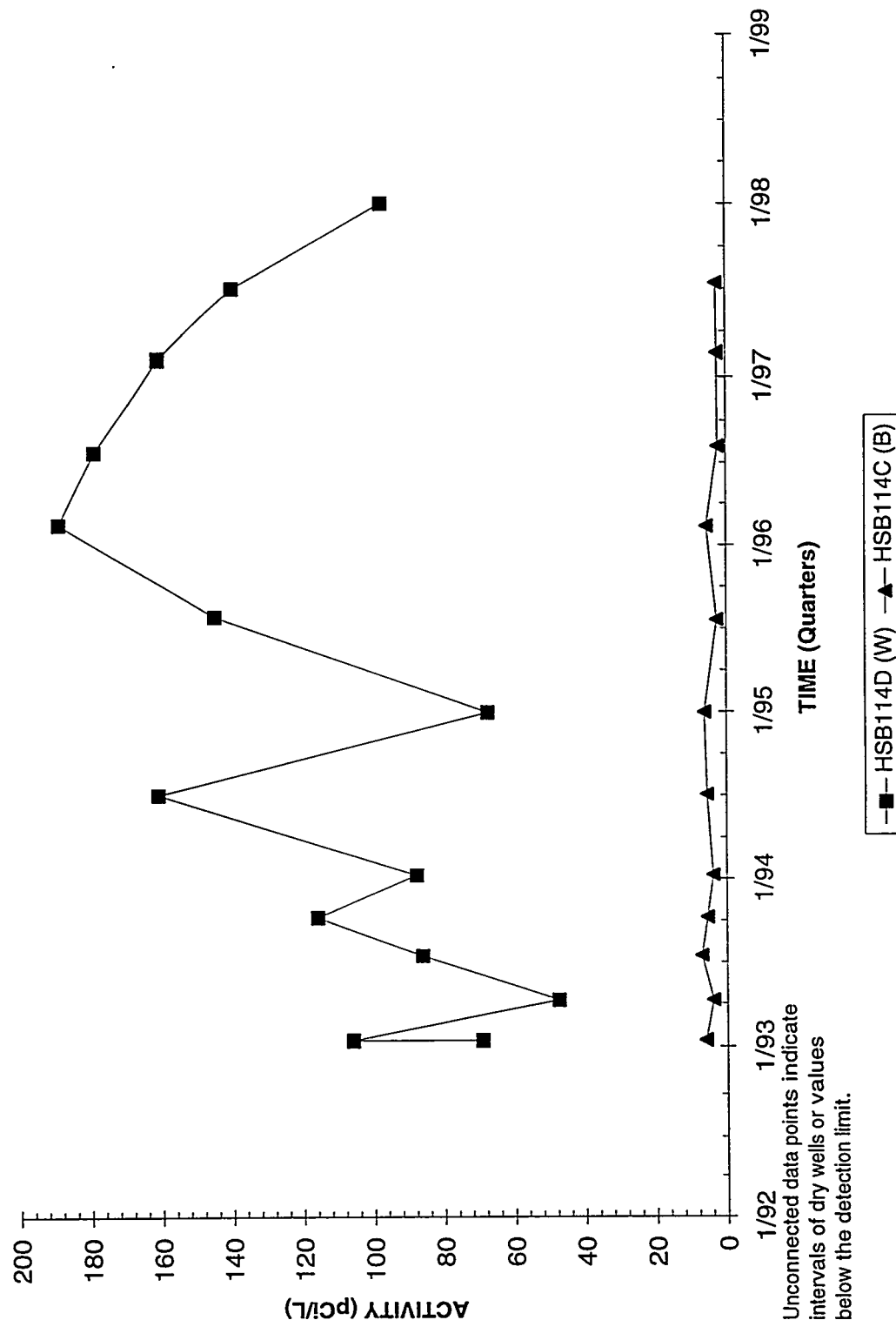
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB113



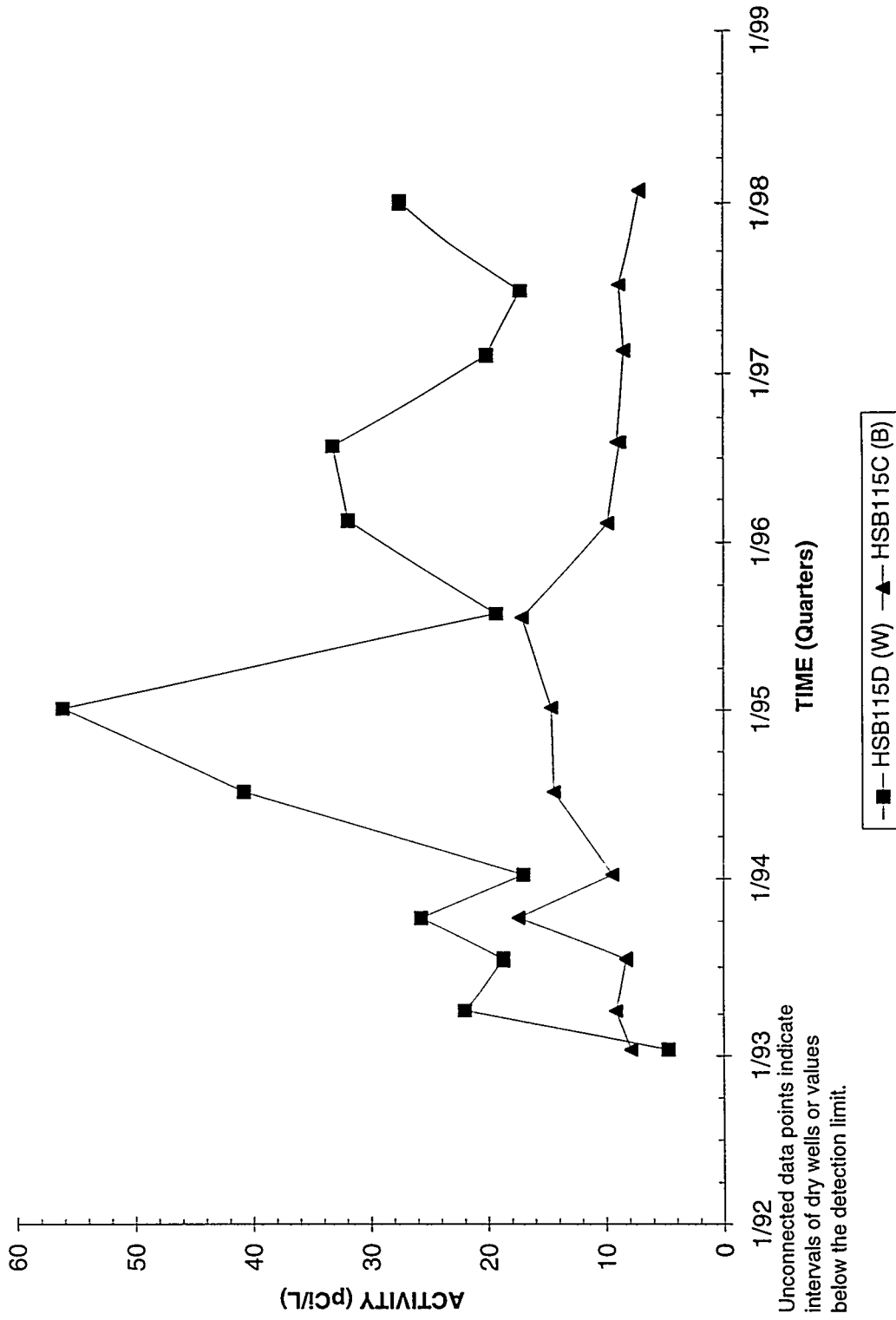
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB114



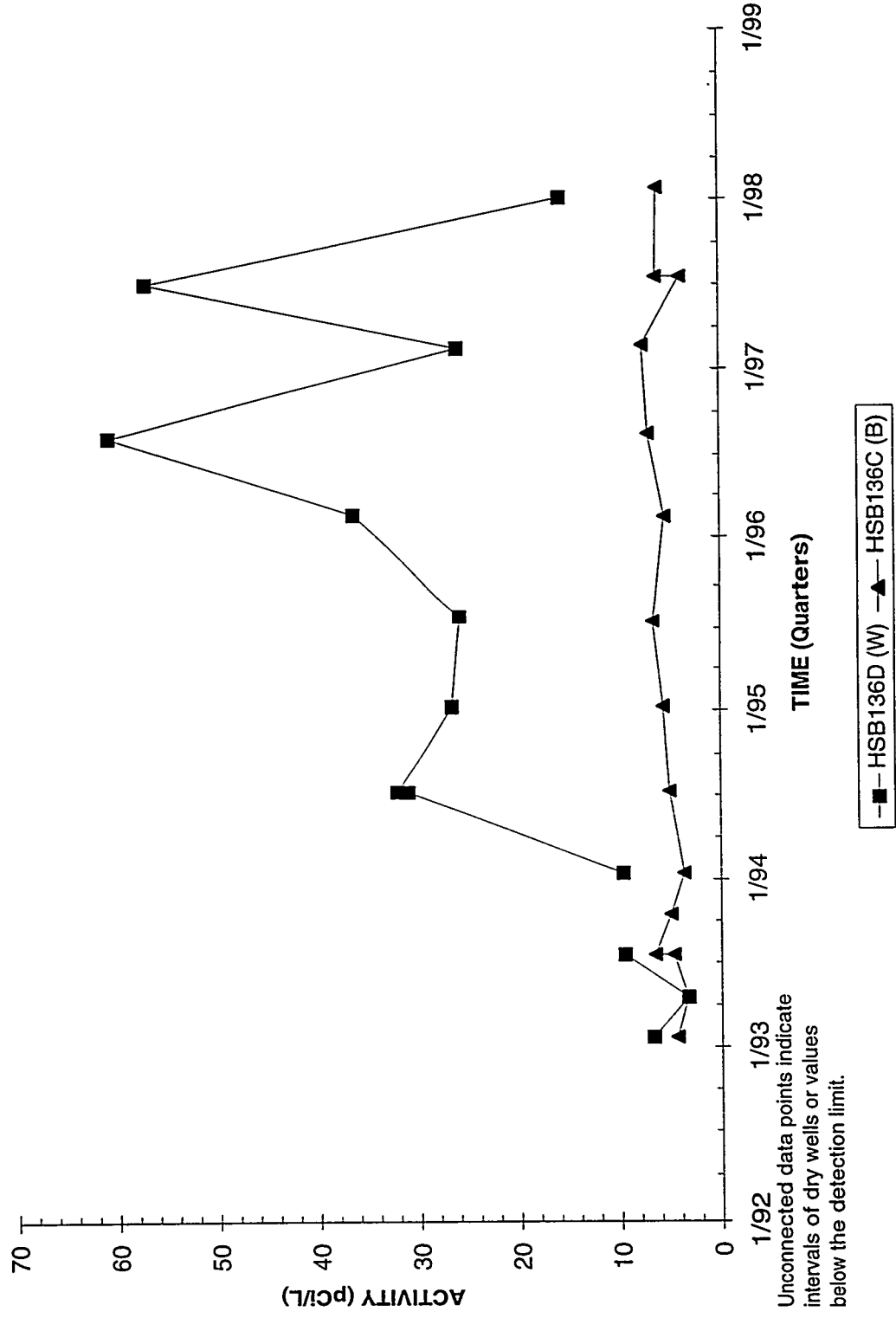
Note: W=Water Table (IIB2); B=Barwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB115



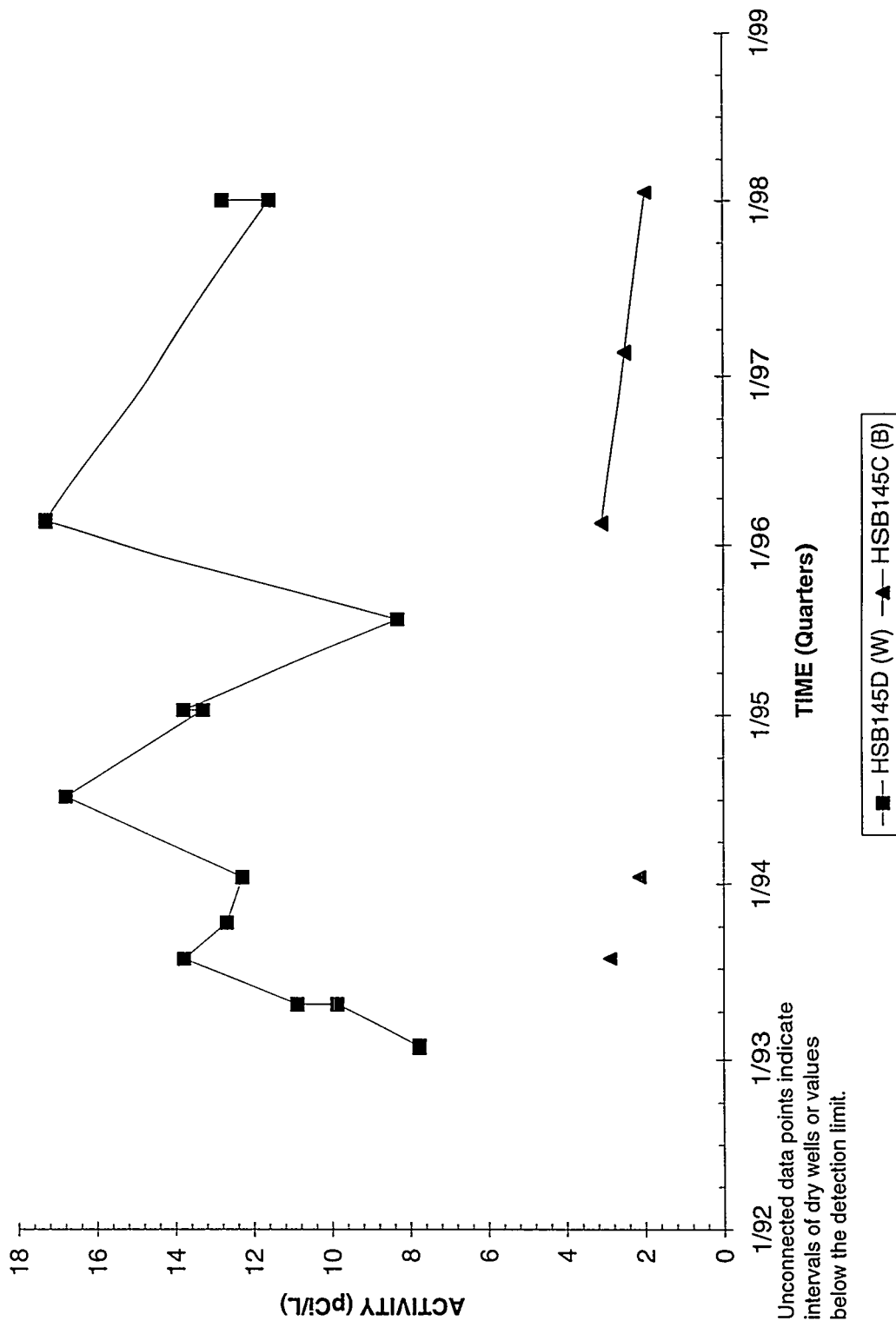
Note: W=Water Table (IIB2); B=Barwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LG=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB136



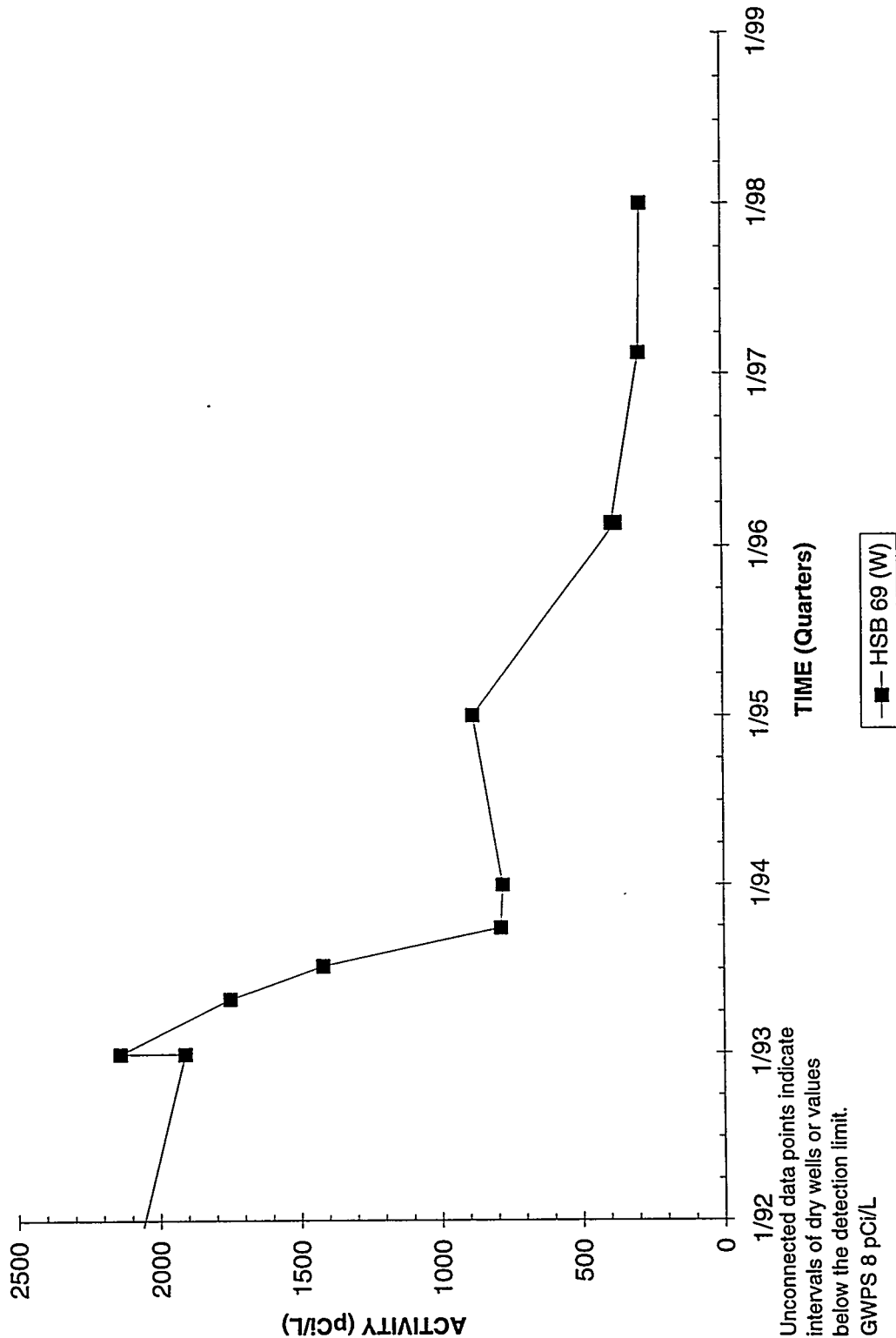
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Iodine-129 Activities Well Cluster HSB145



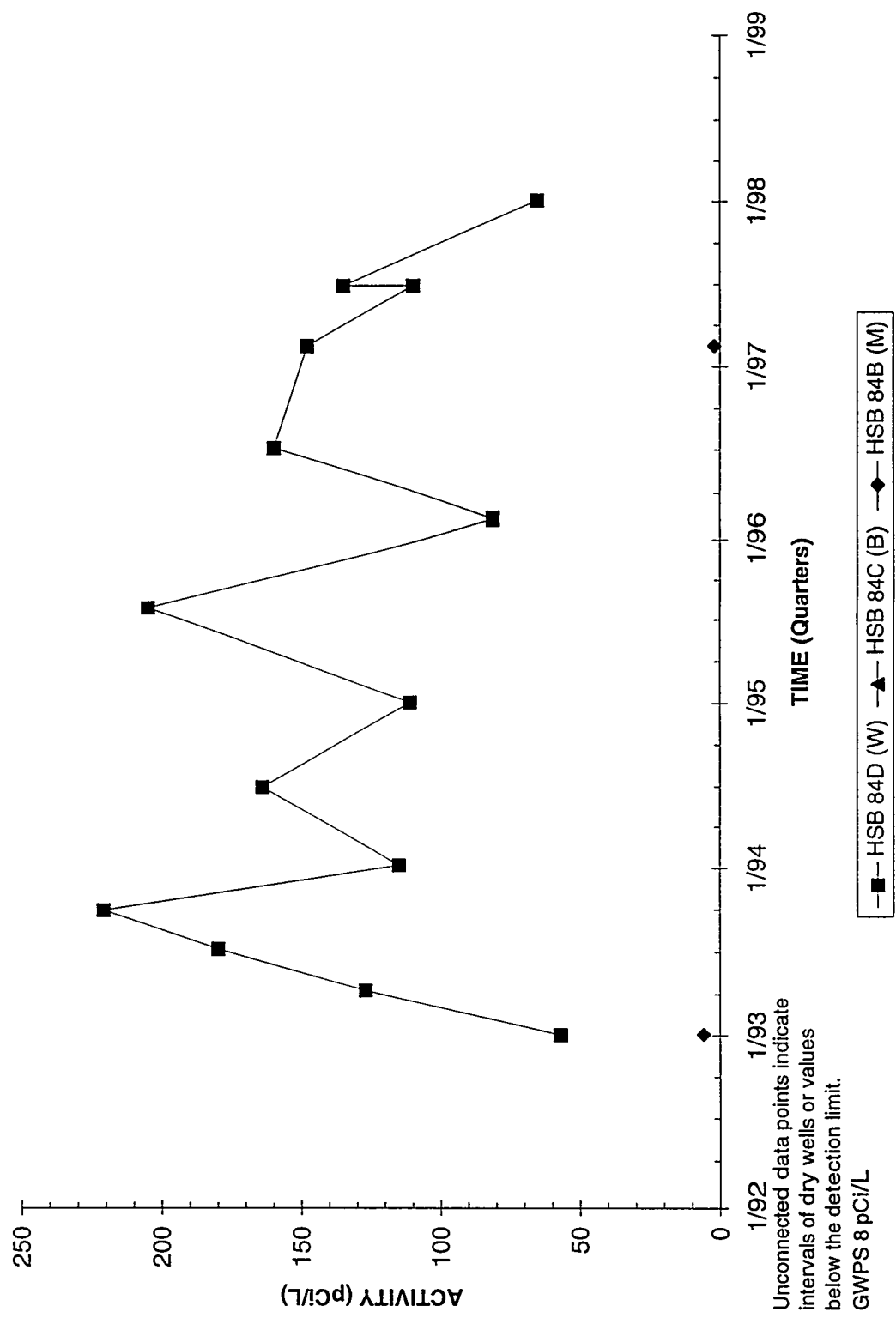
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well HSB 69



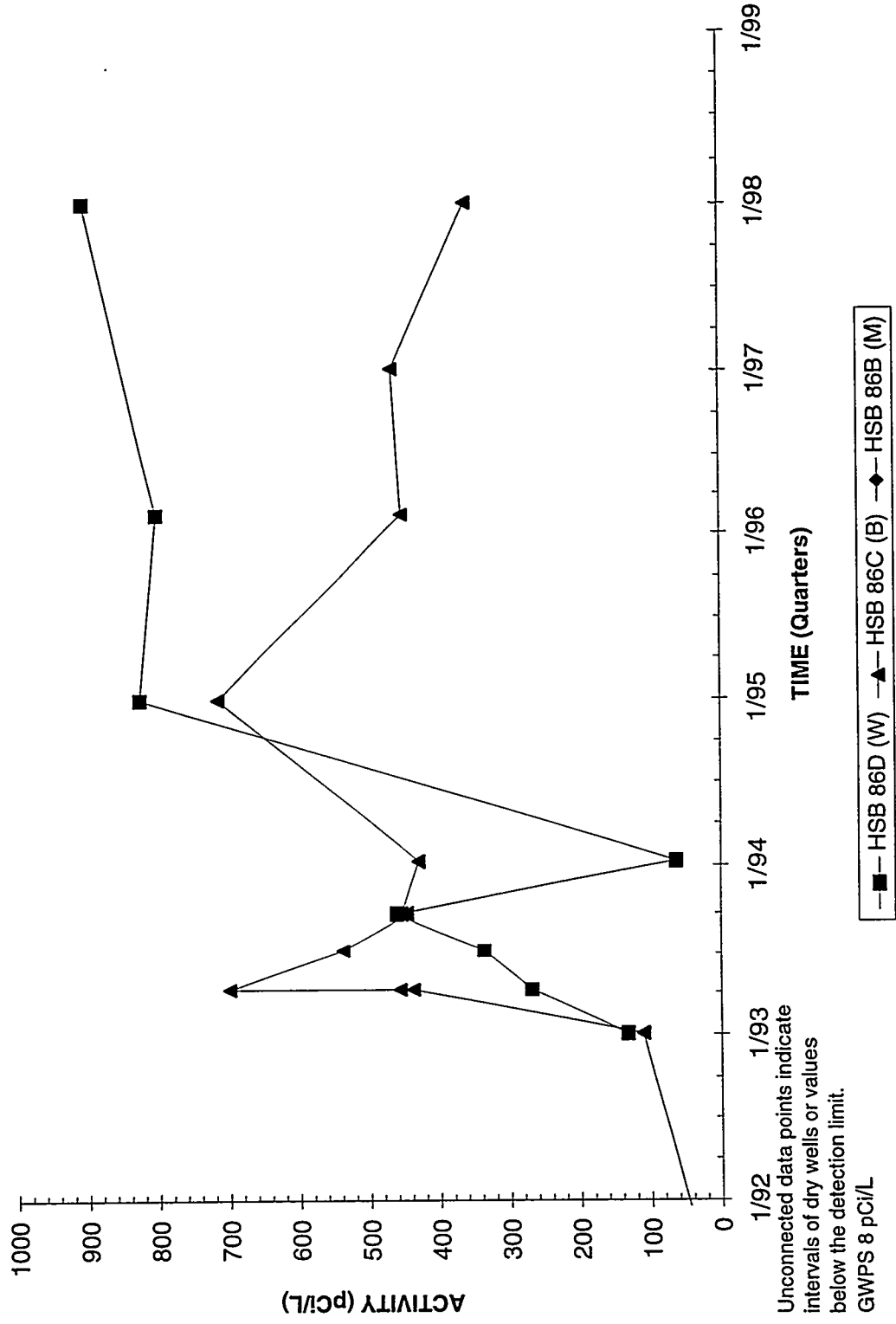
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB 84



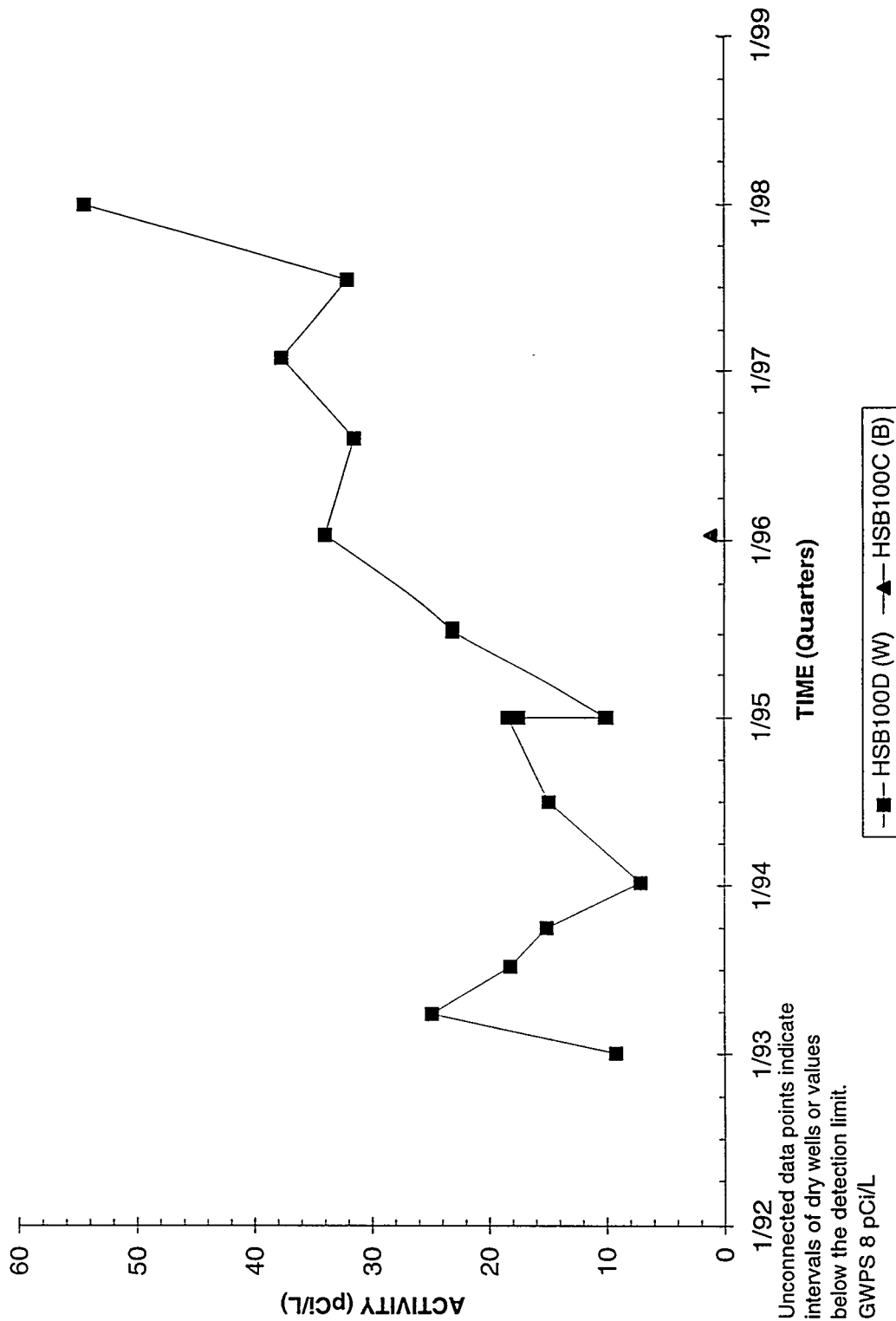
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB 86



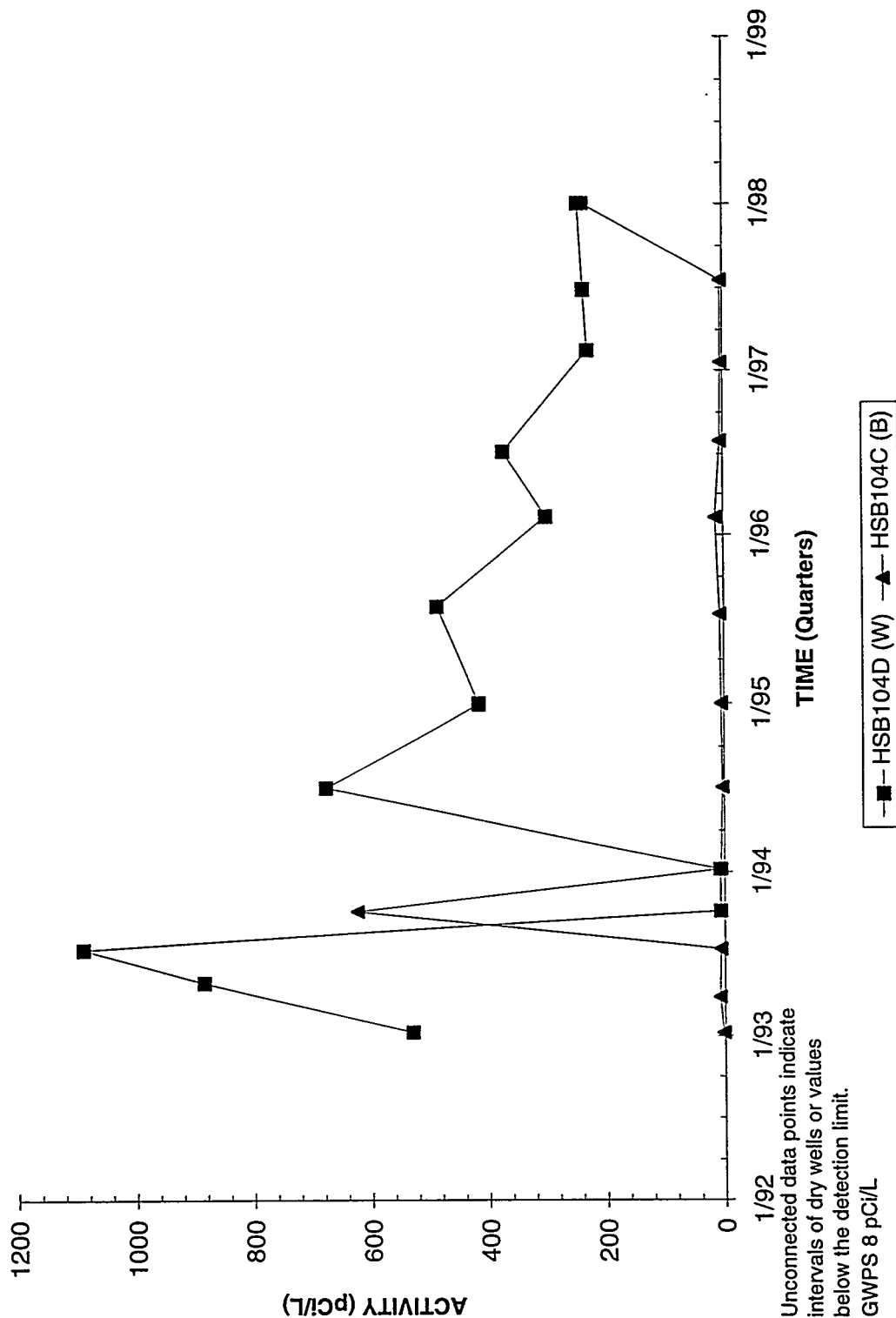
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB100



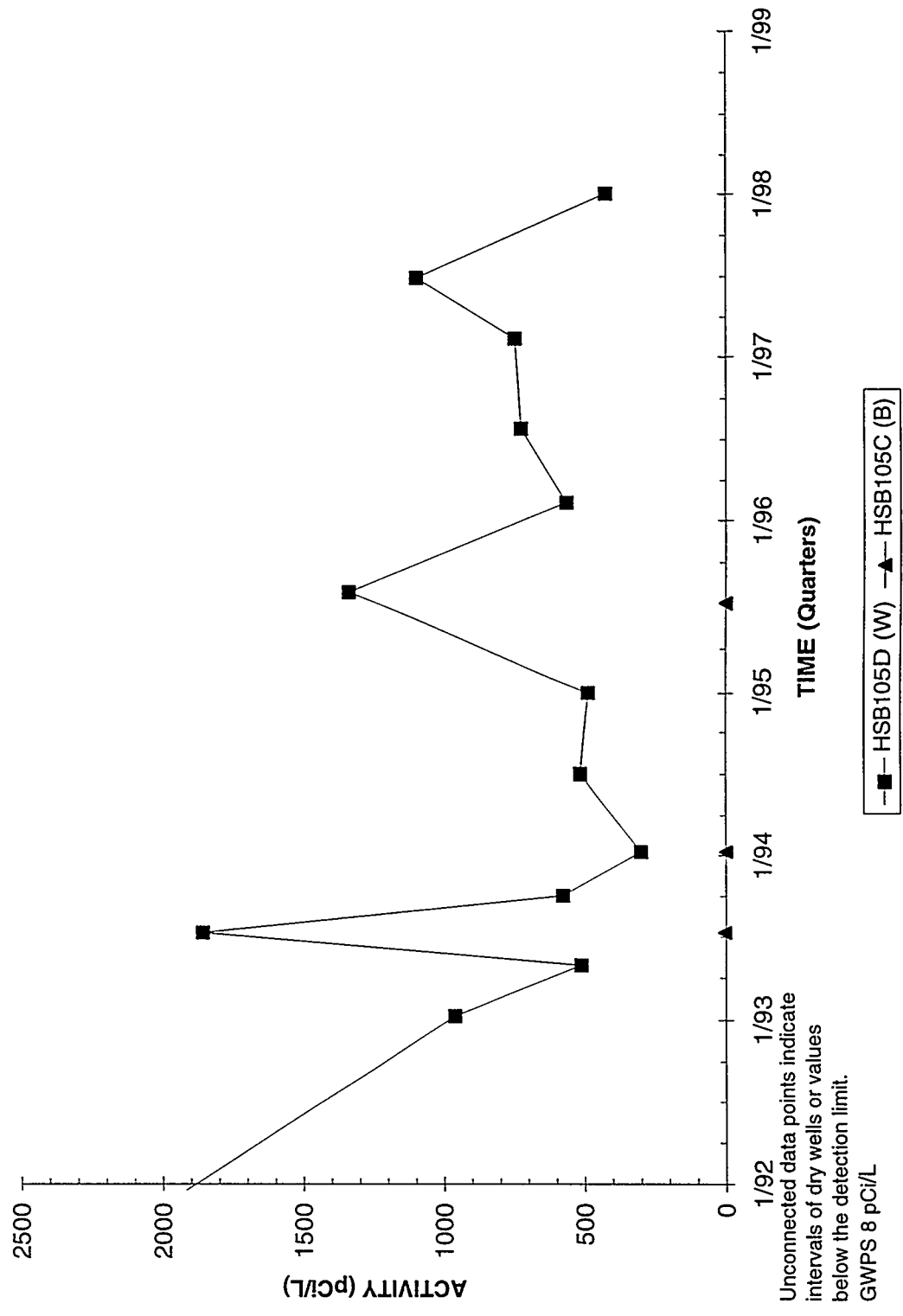
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB104



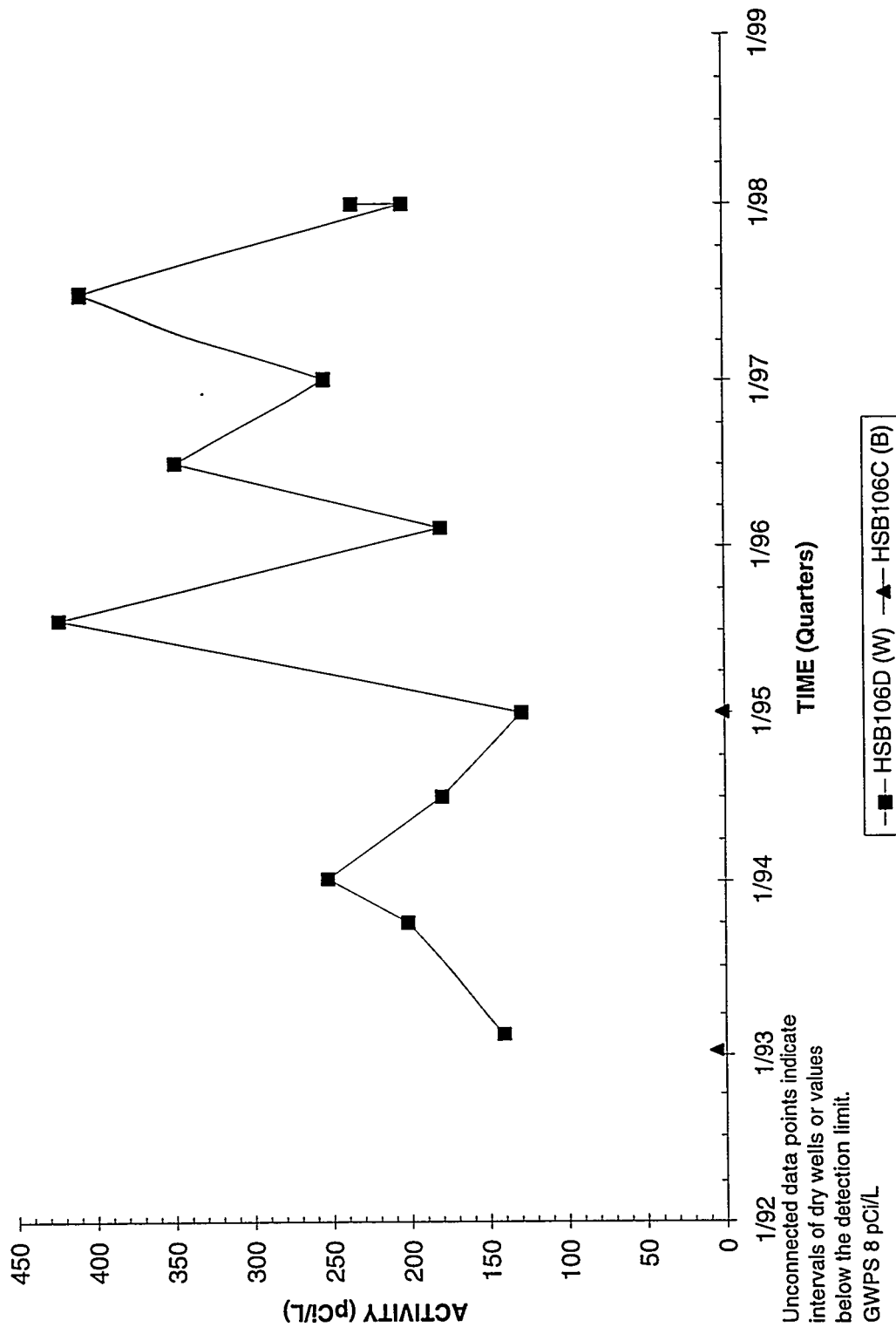
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB105



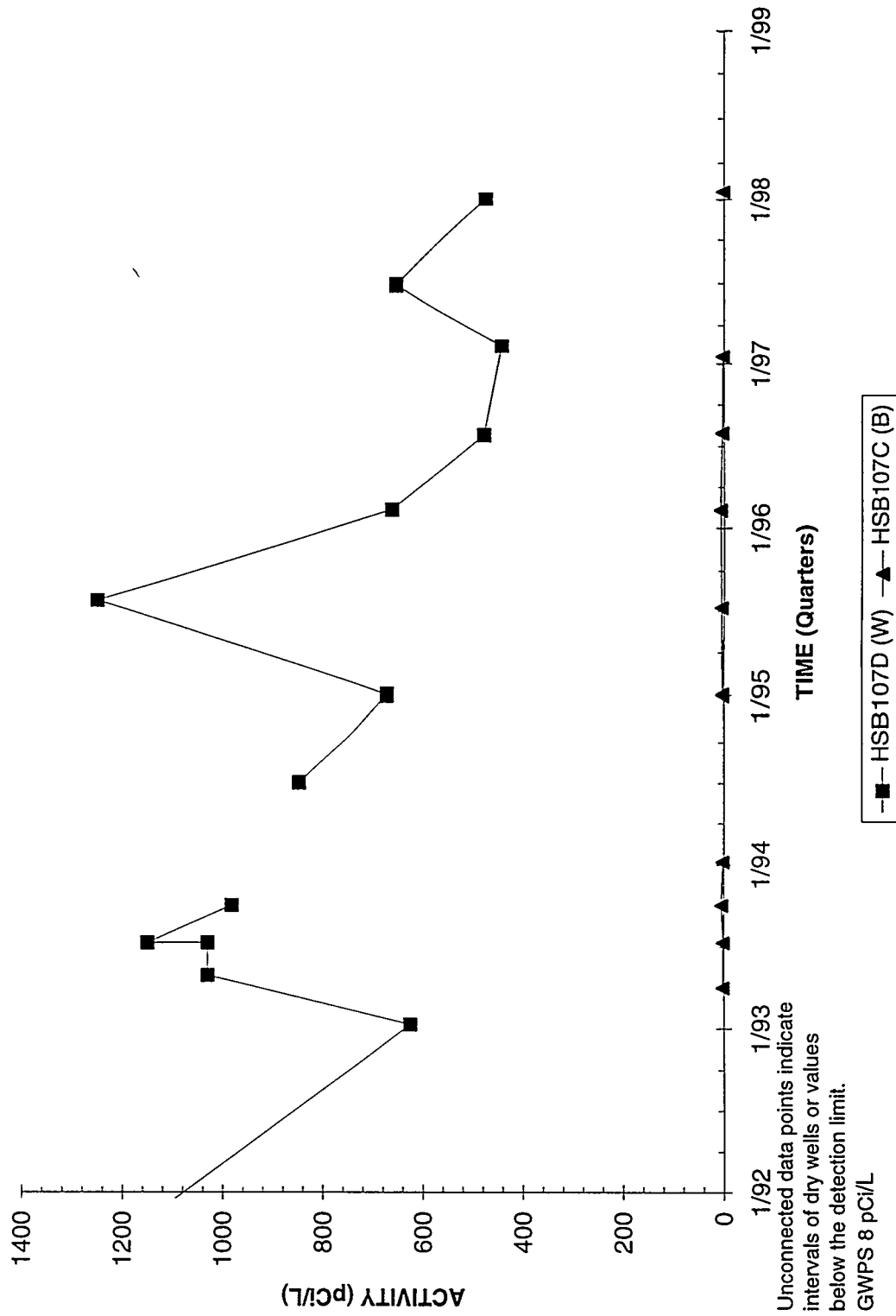
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB106



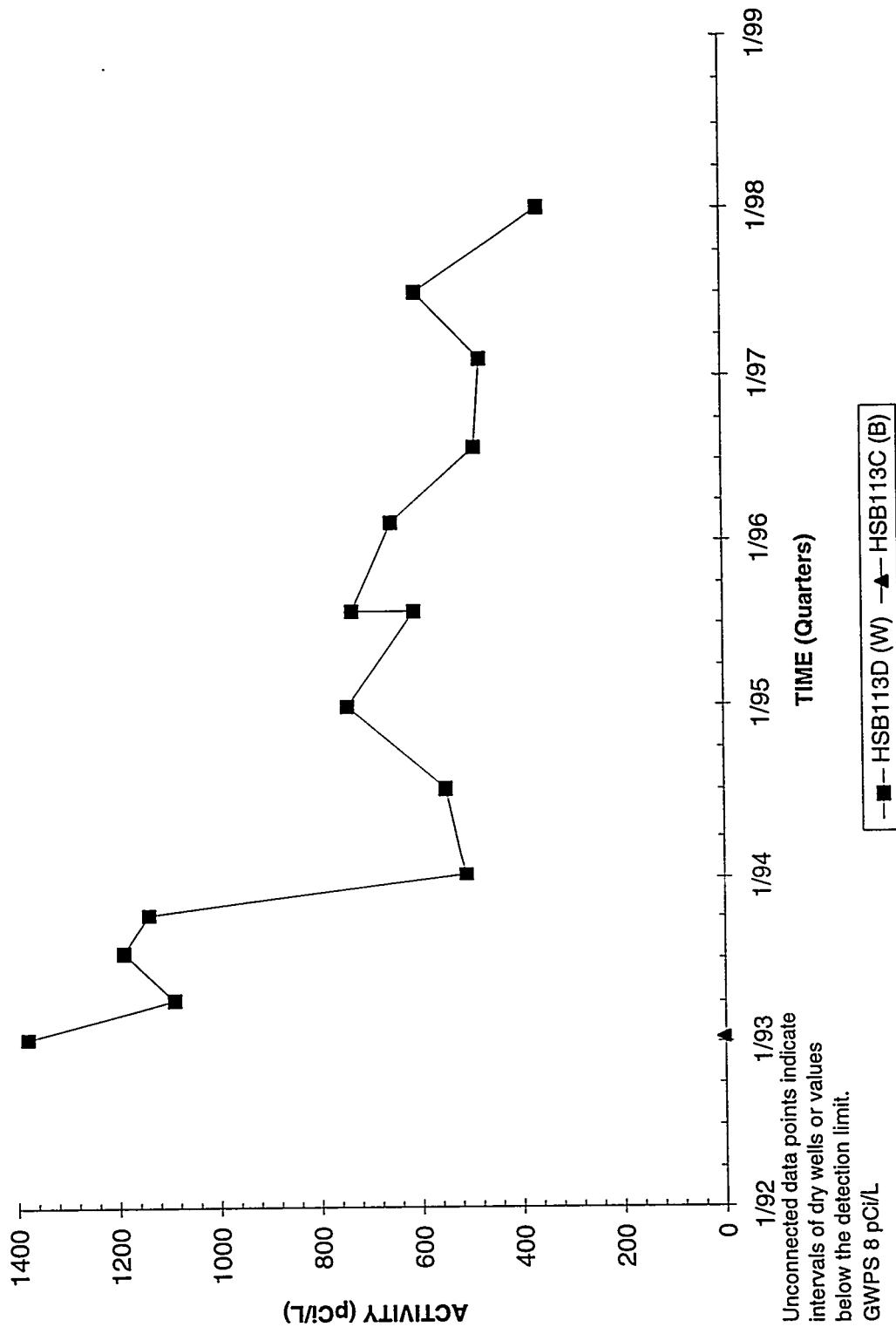
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB107



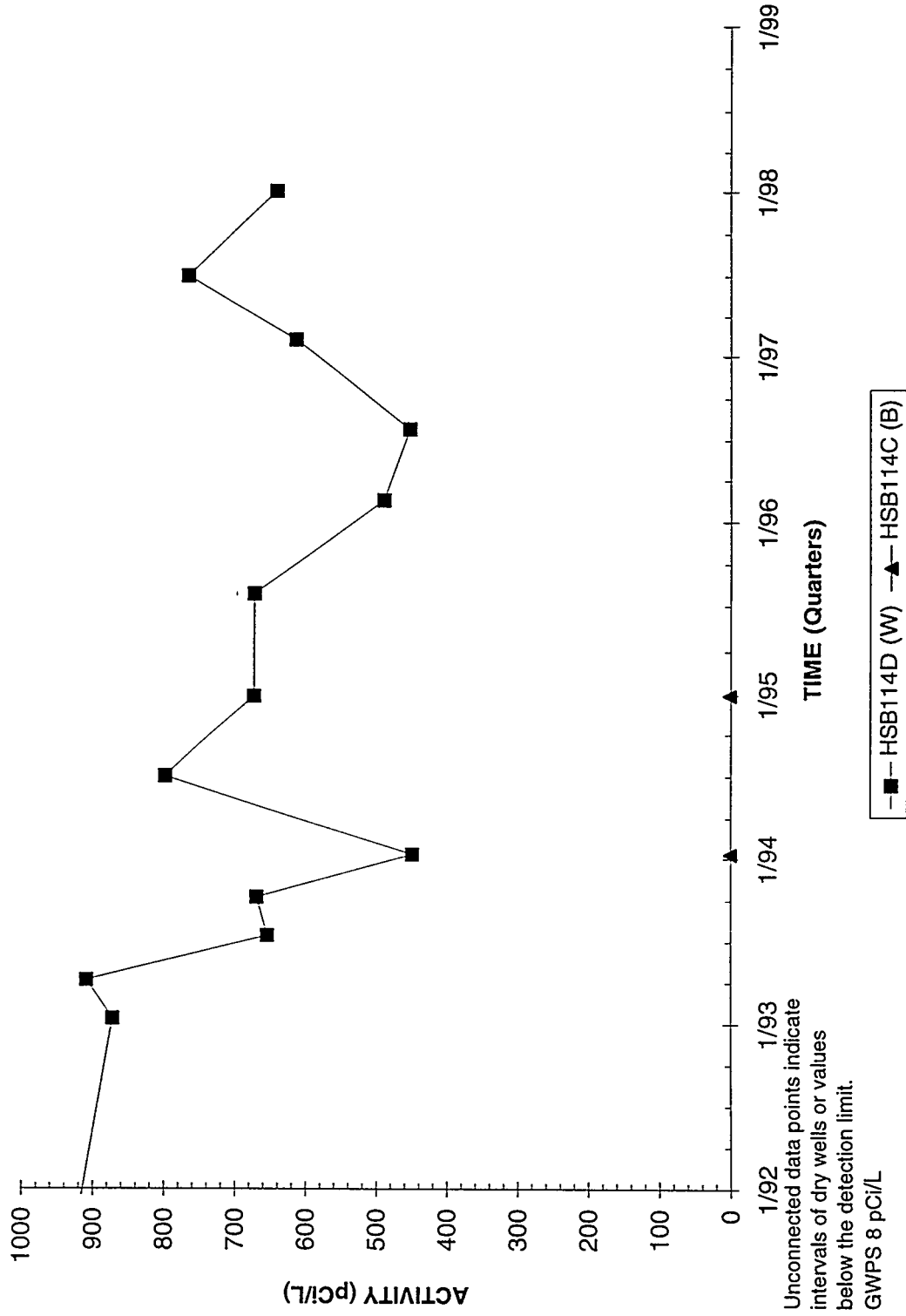
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB113



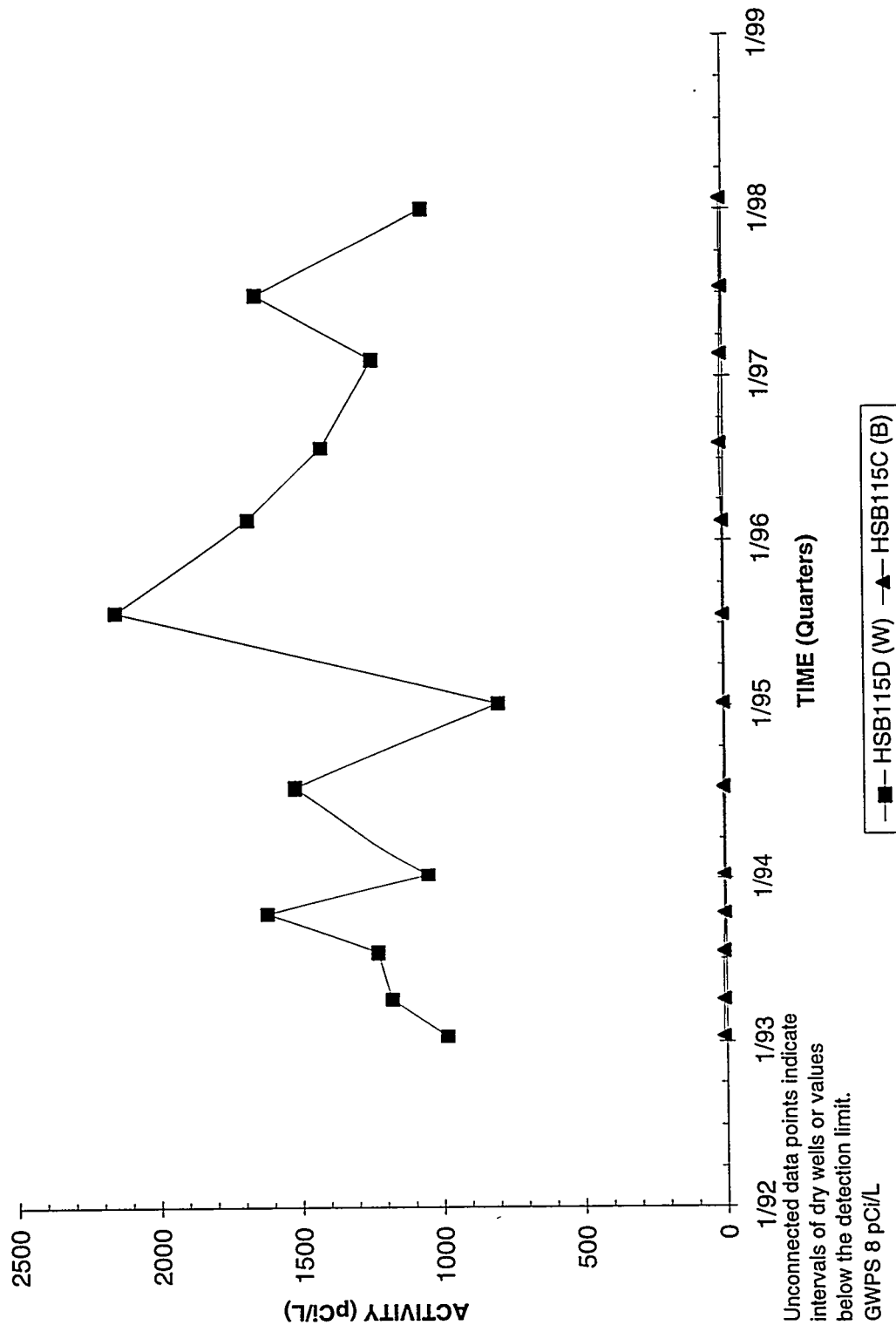
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB114



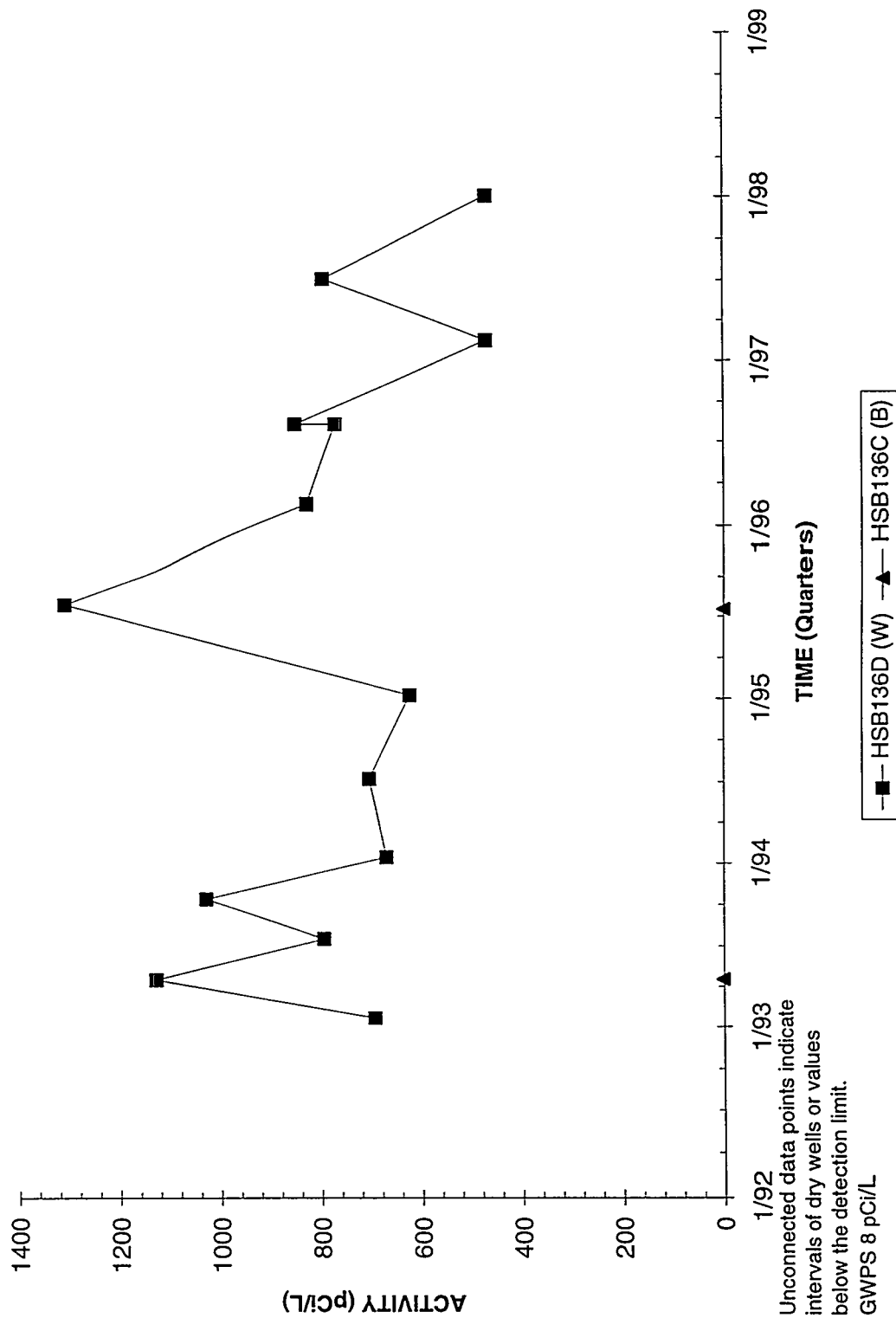
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB115



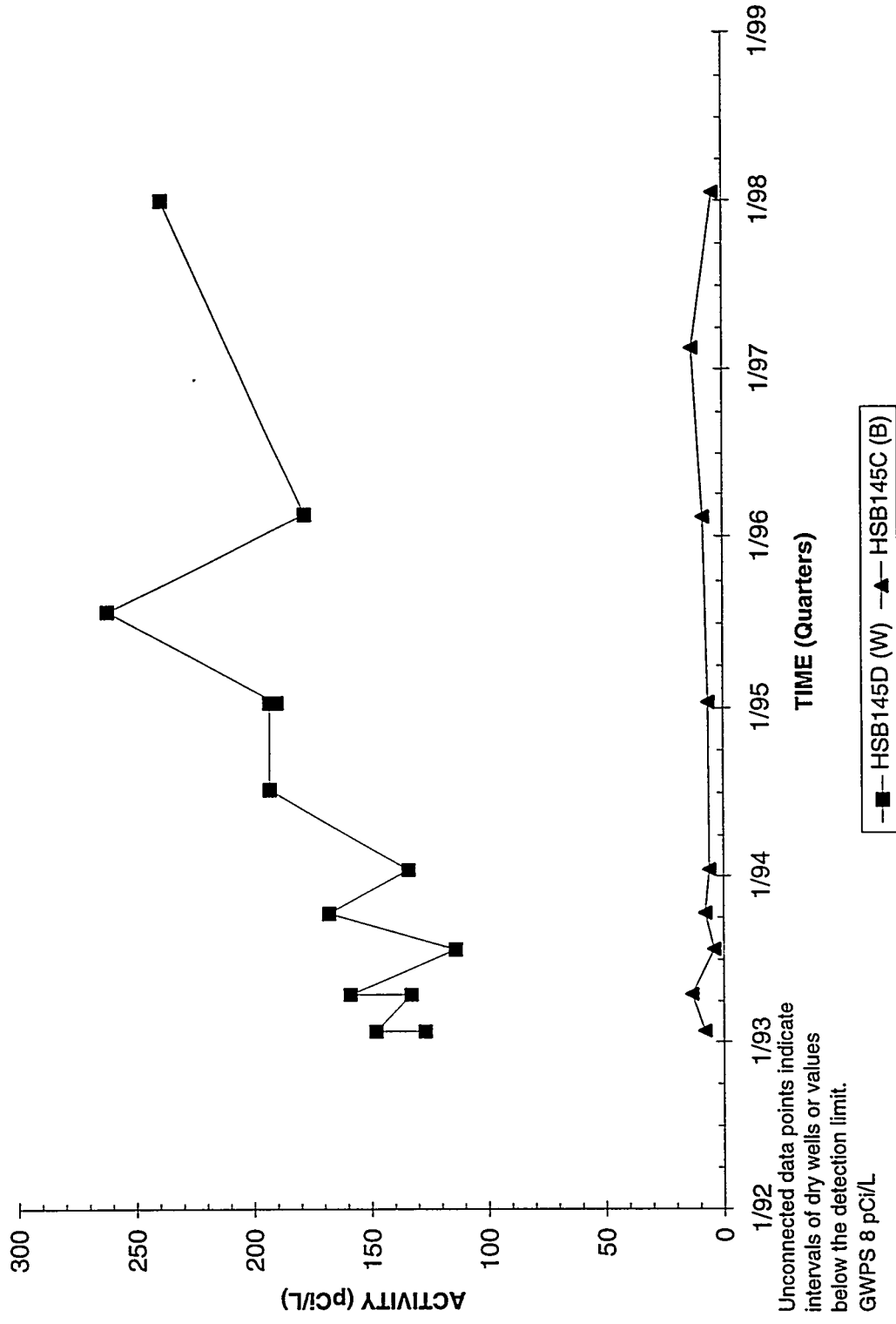
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB136



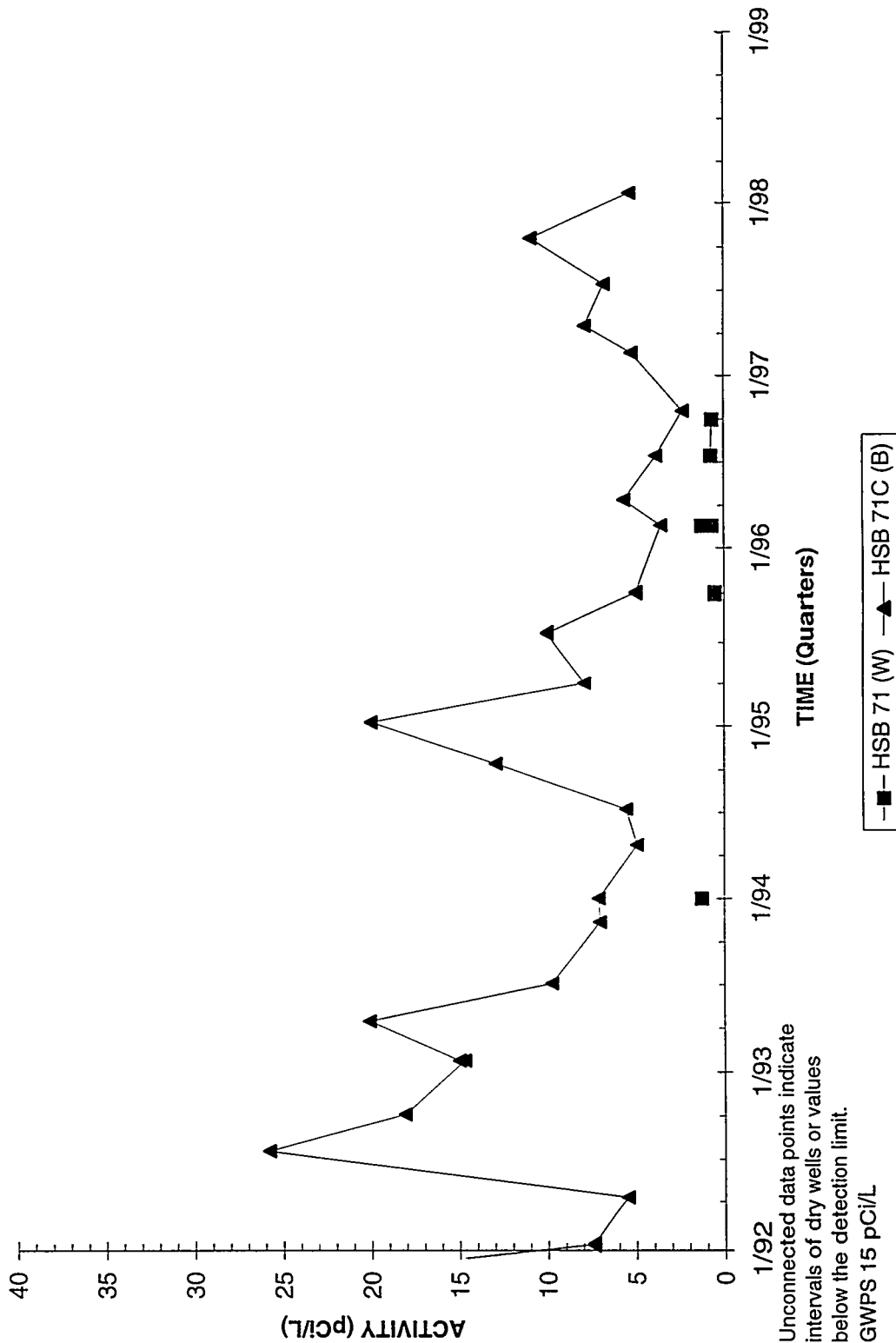
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Strontium-90 Activities Well Cluster HSB145



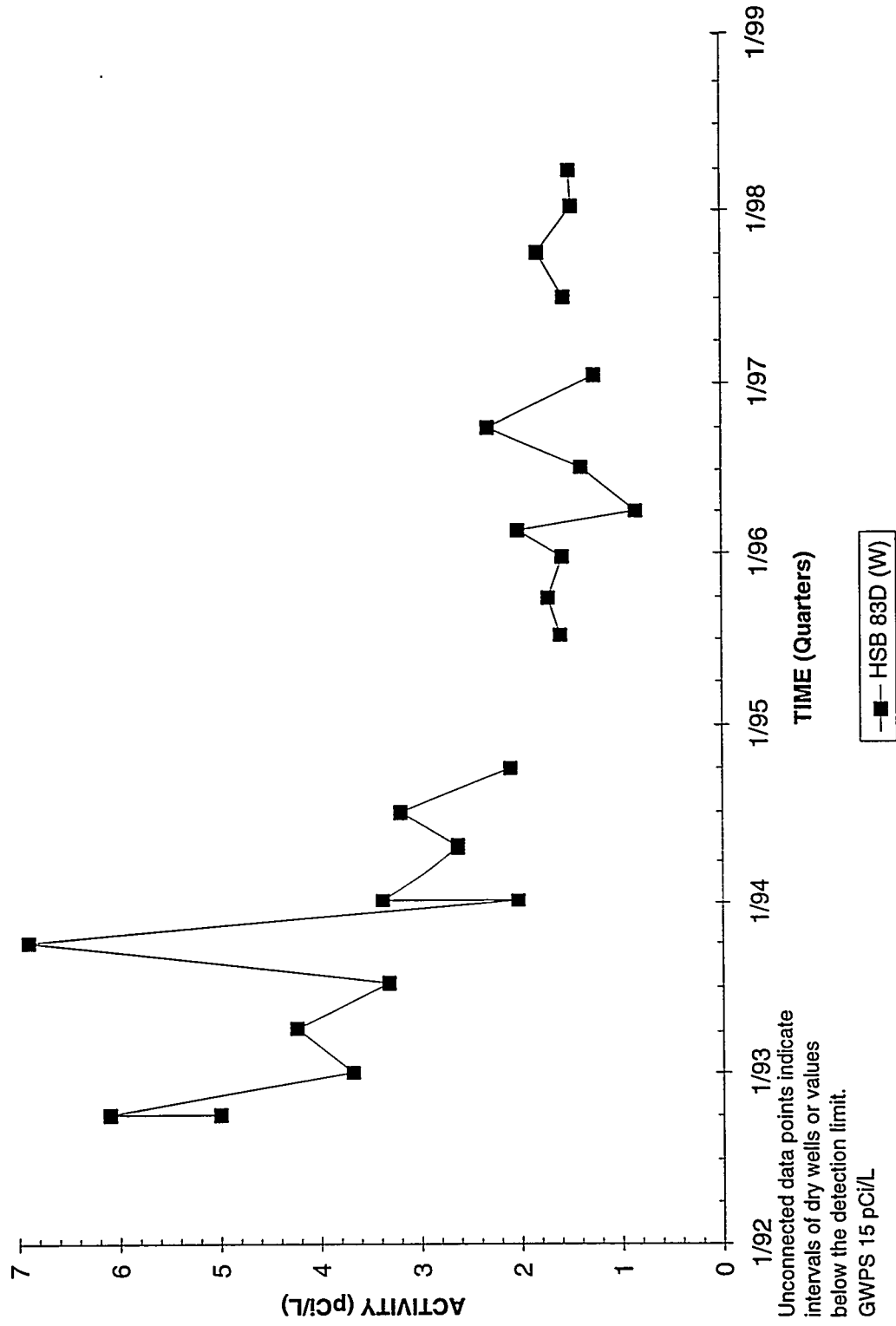
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB 71



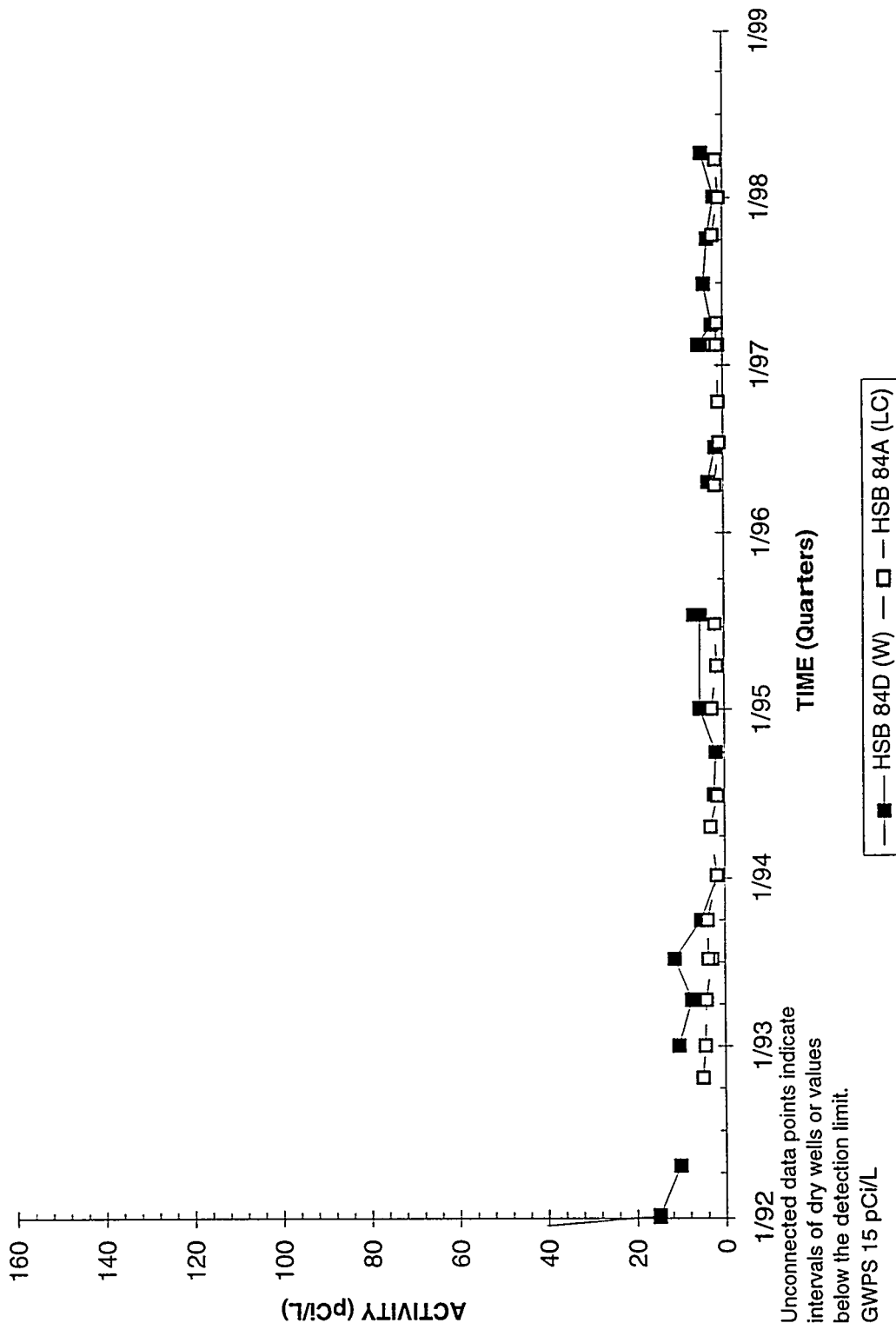
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well HSB 83D



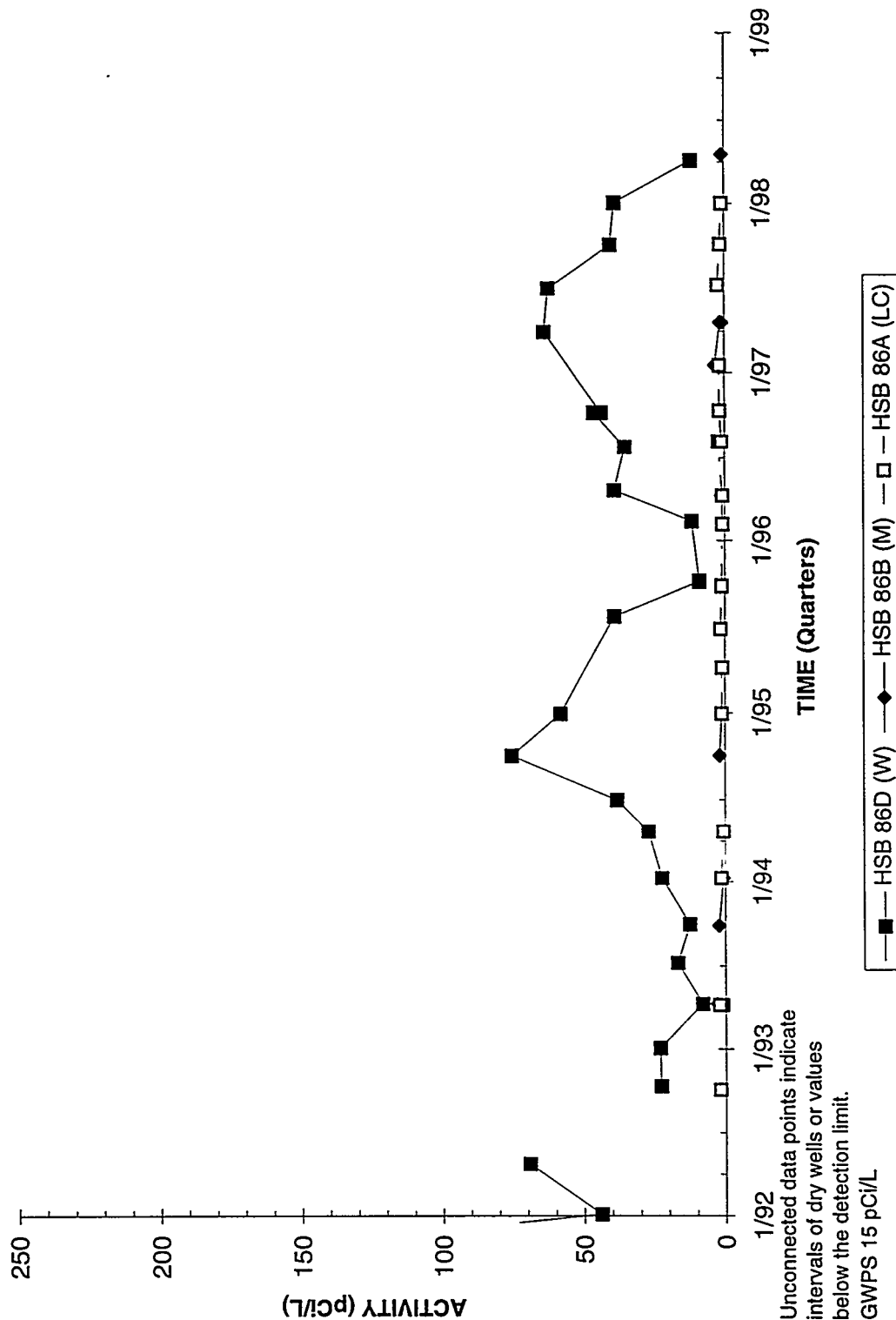
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB 84



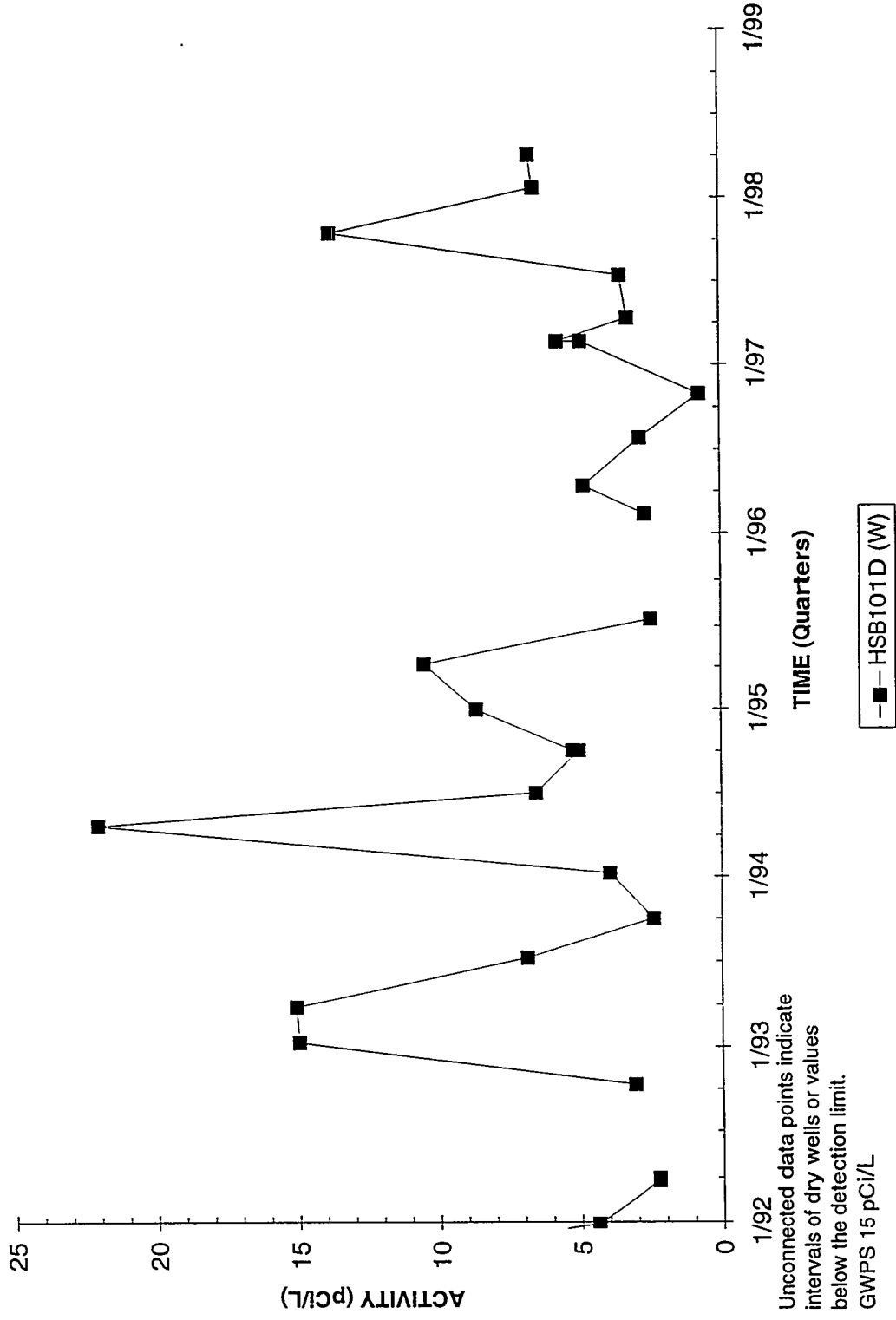
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB 86



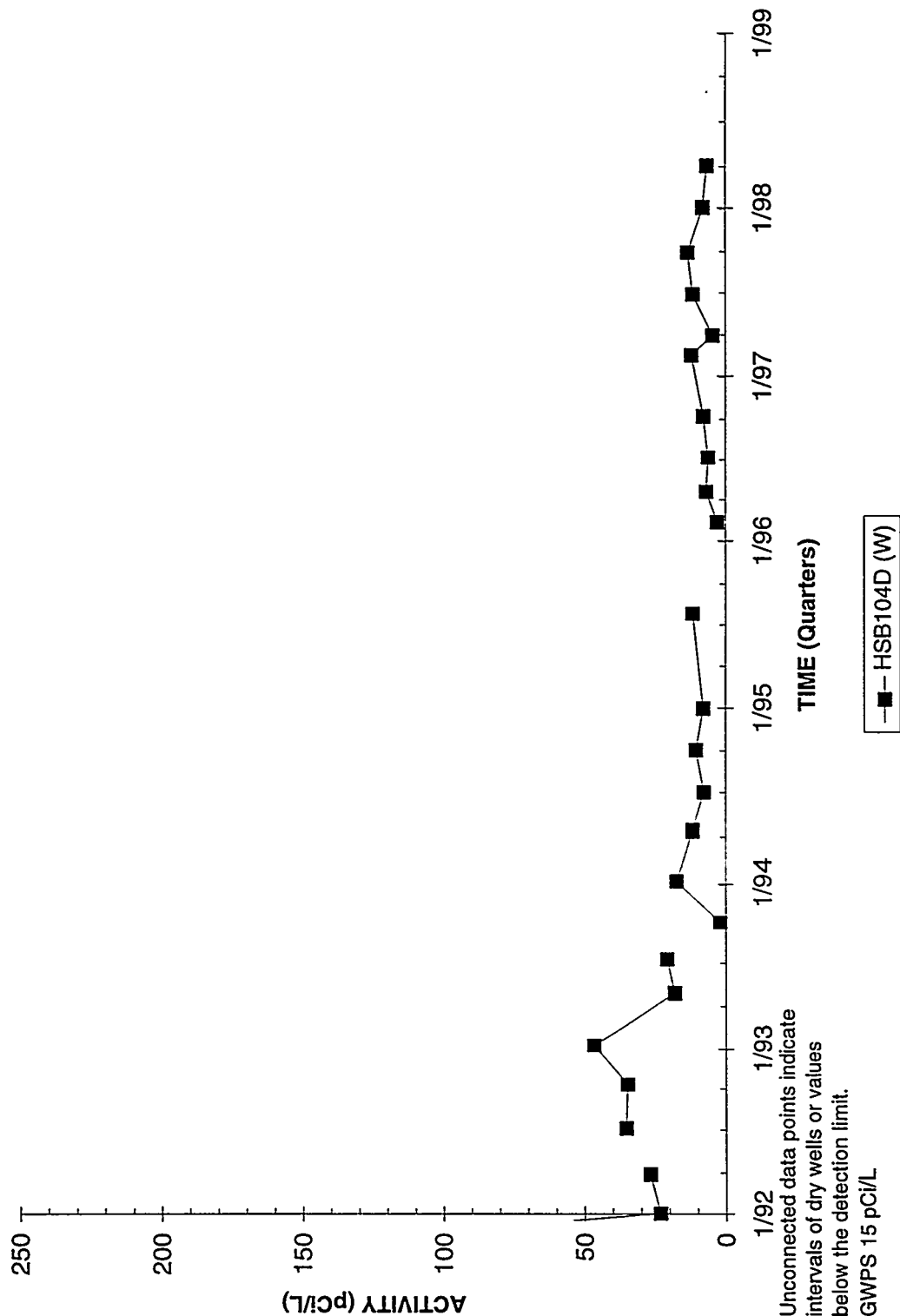
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well HSB101D



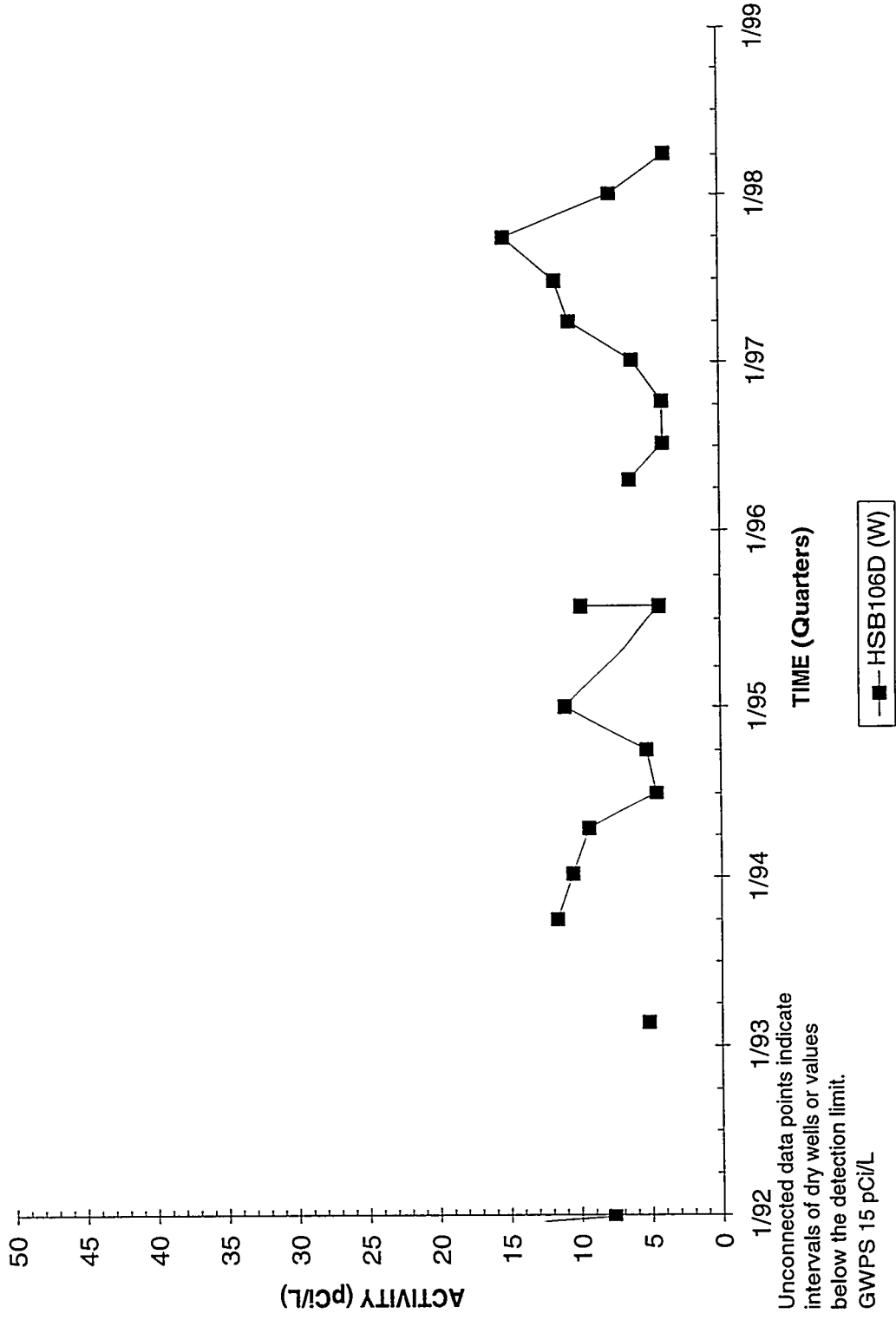
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well HSB104D



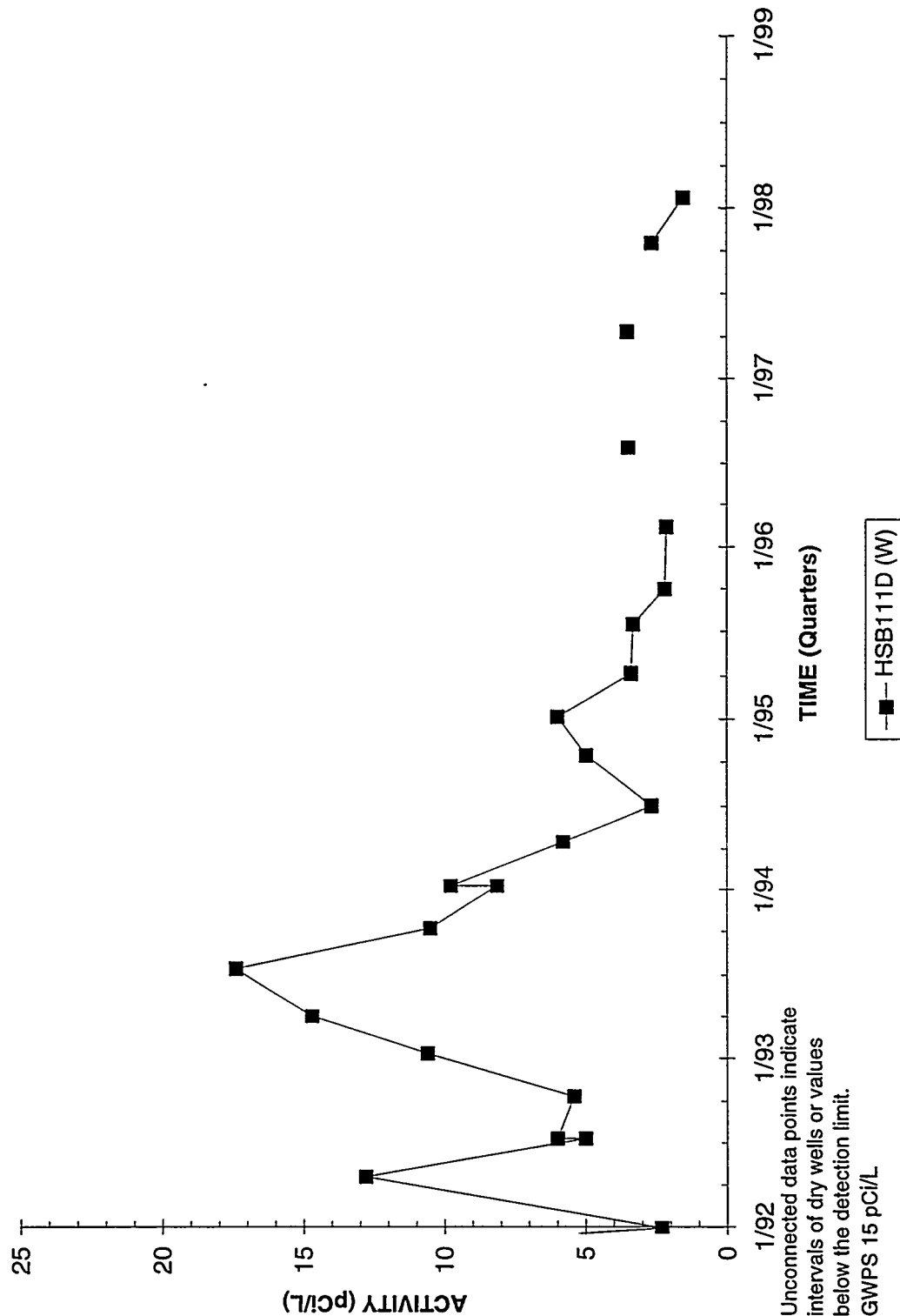
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well HSB106D



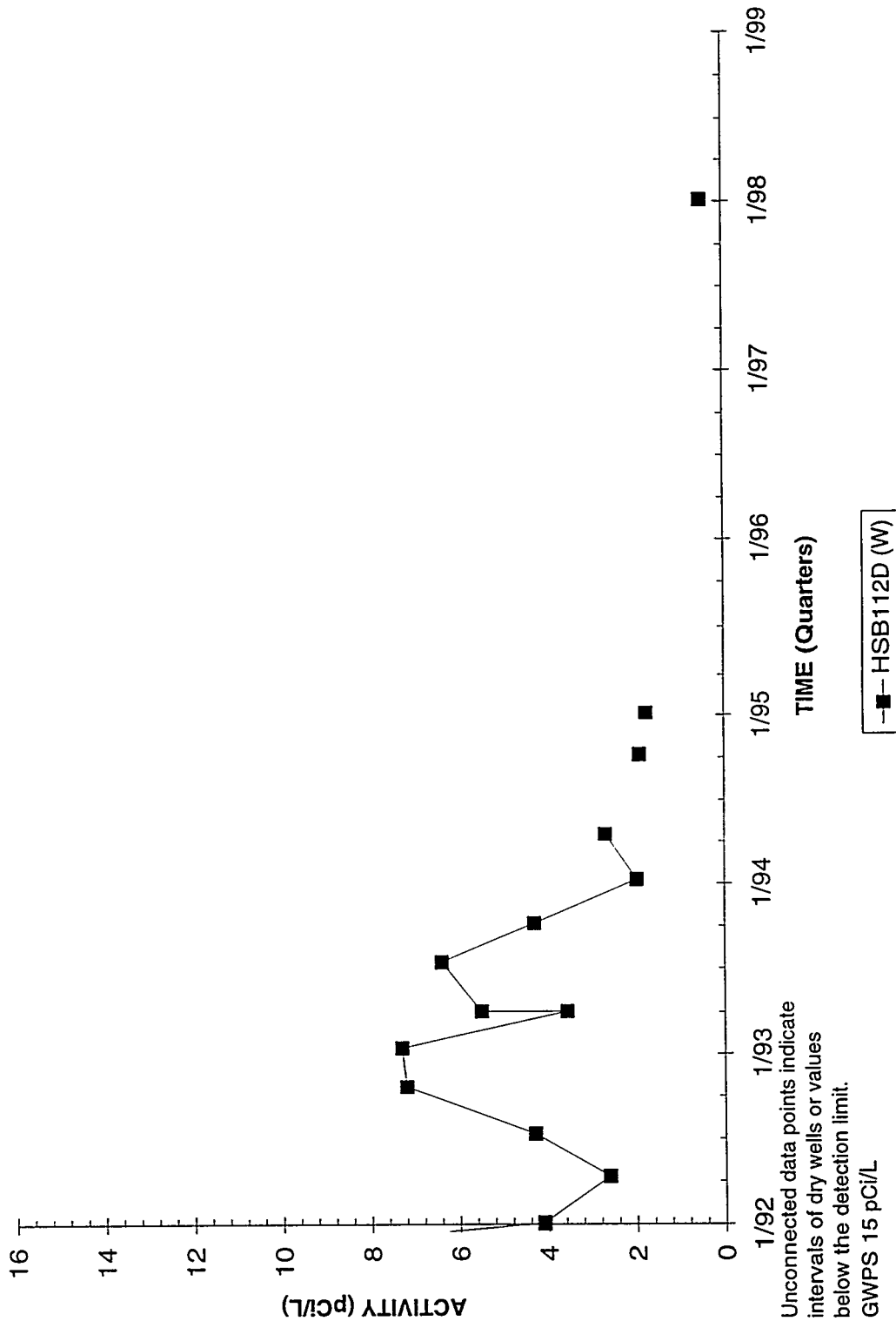
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well HSB111D



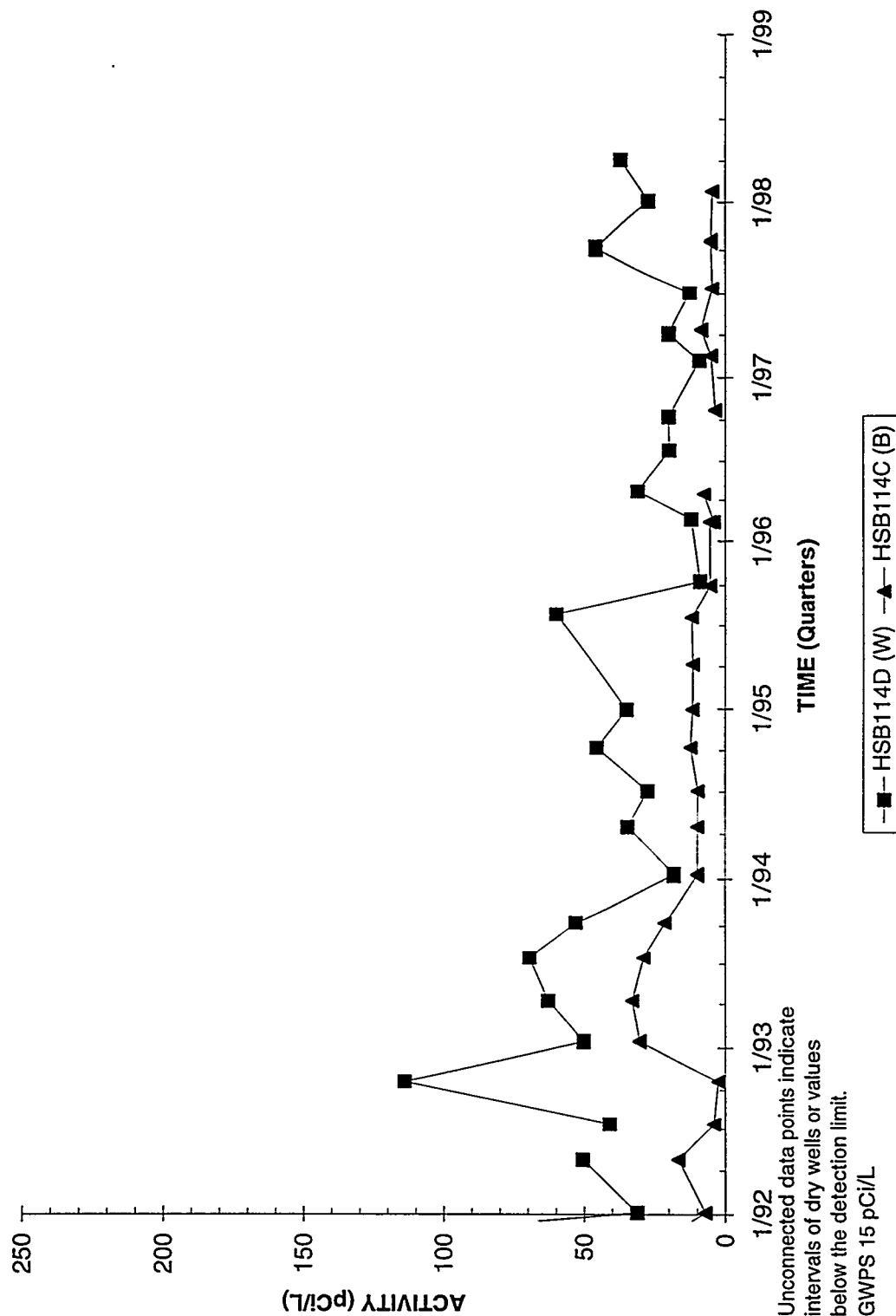
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well HSB112D



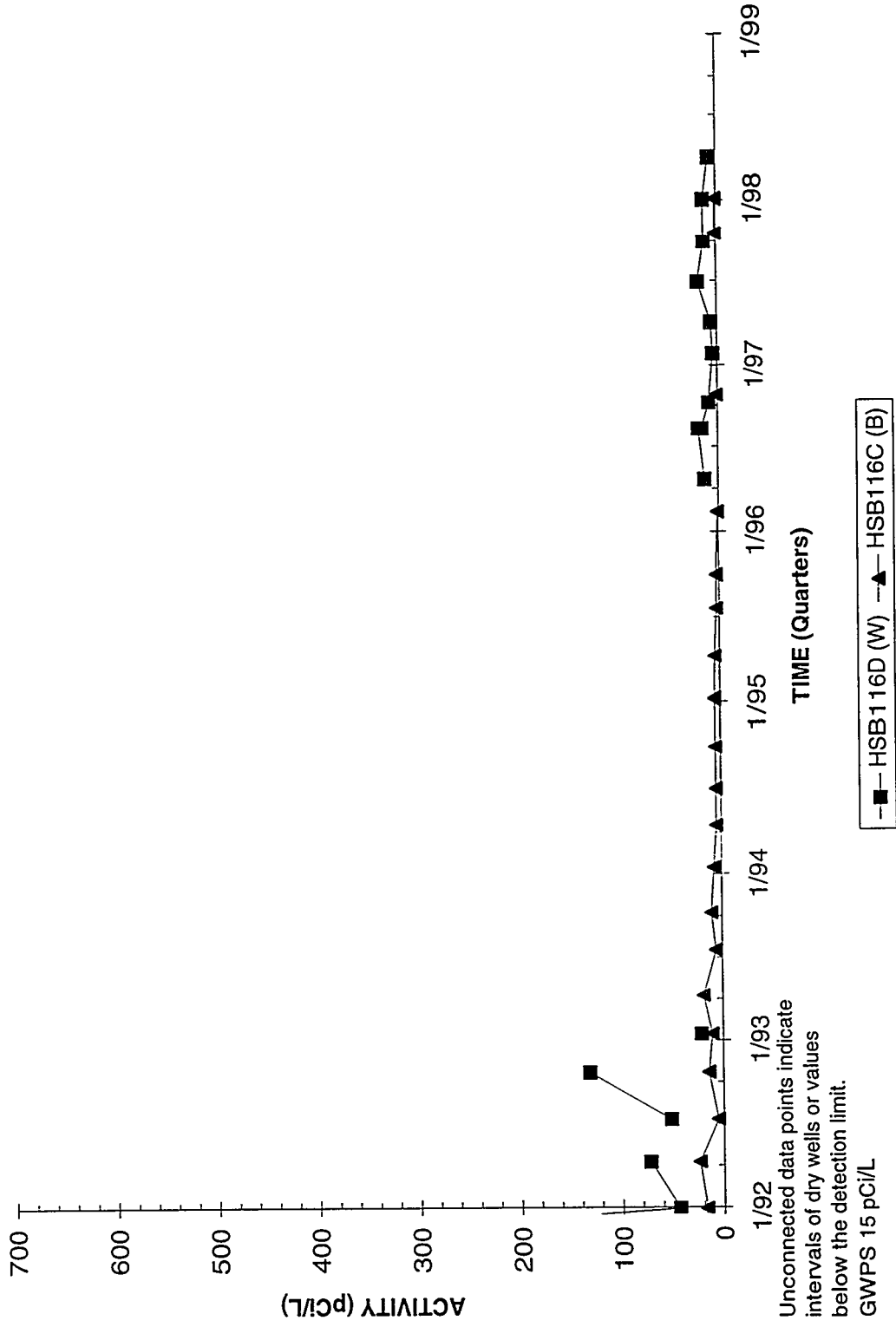
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB114



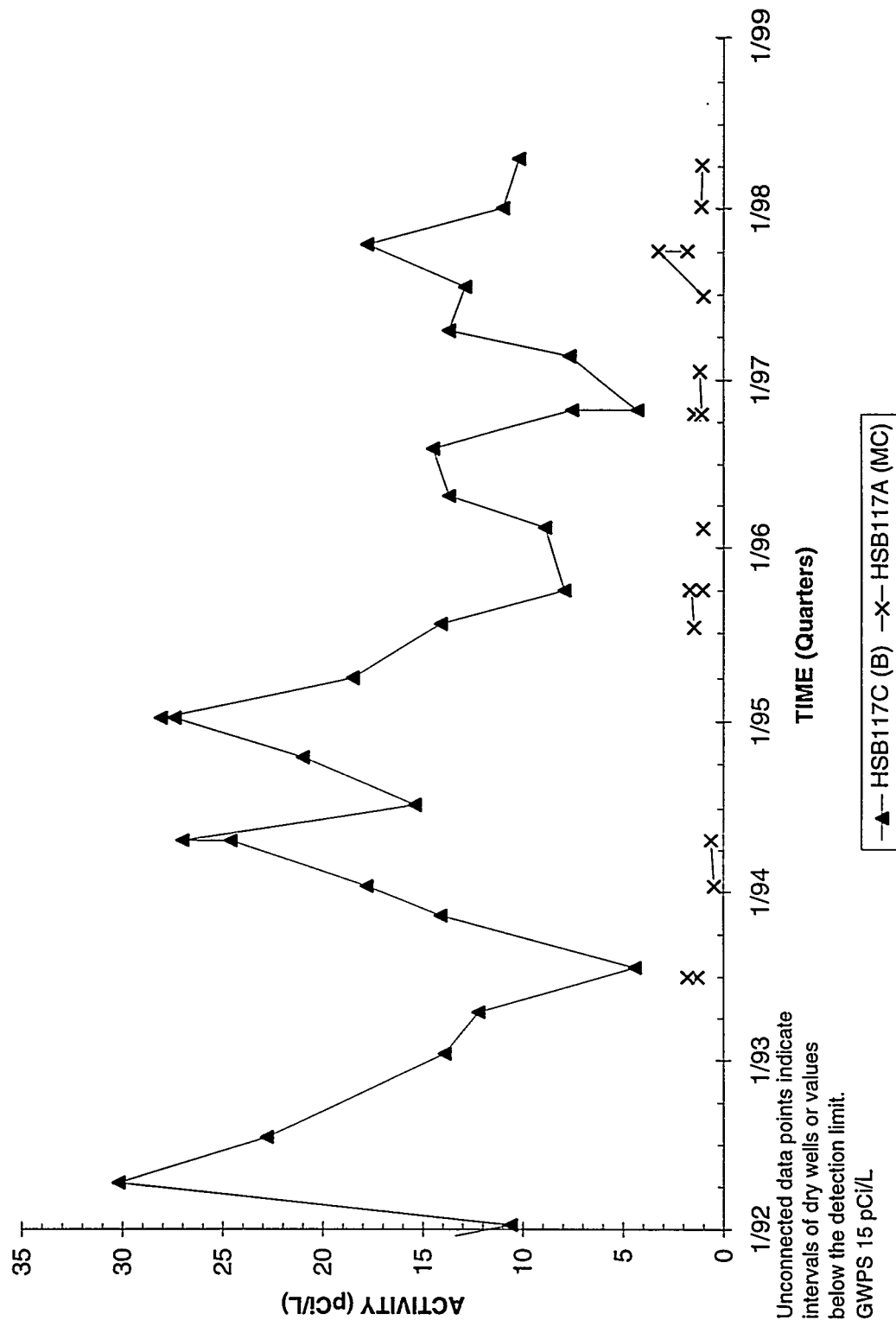
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster HSB116



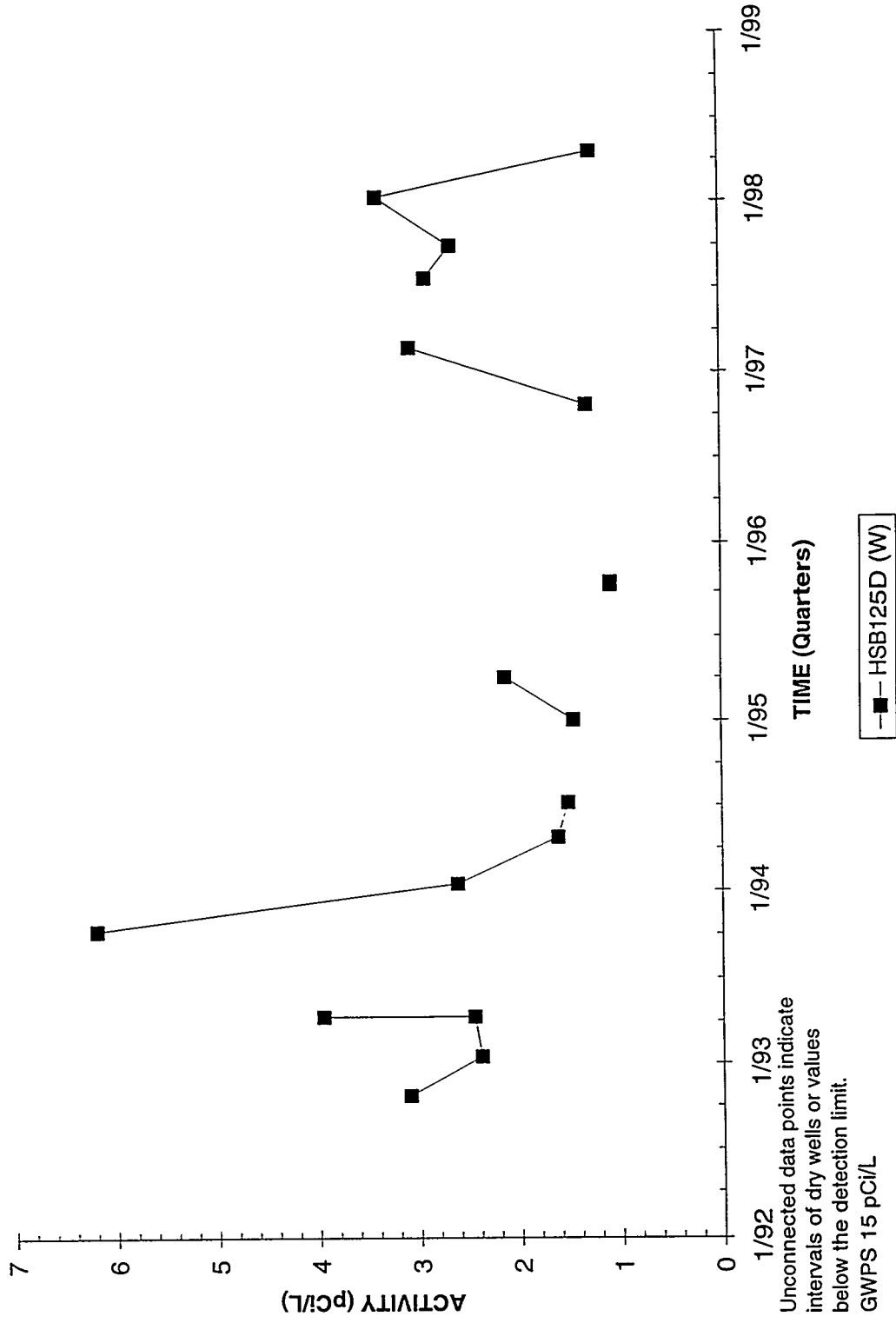
Note: W=Water Table (IIB2); S=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities 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)

Gross Alpha Activities Well HSB125D



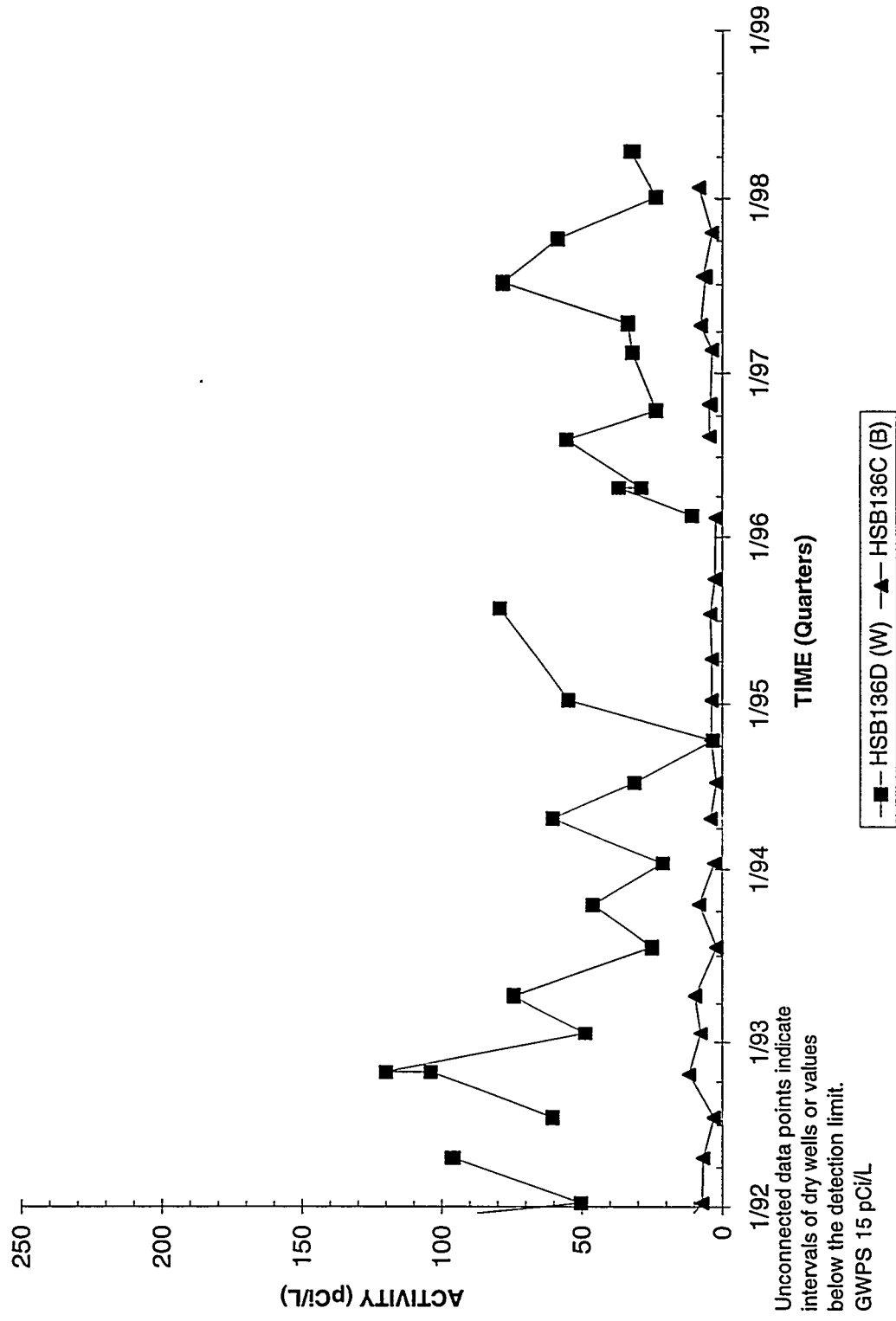
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

H-Ar W/MF

1 90

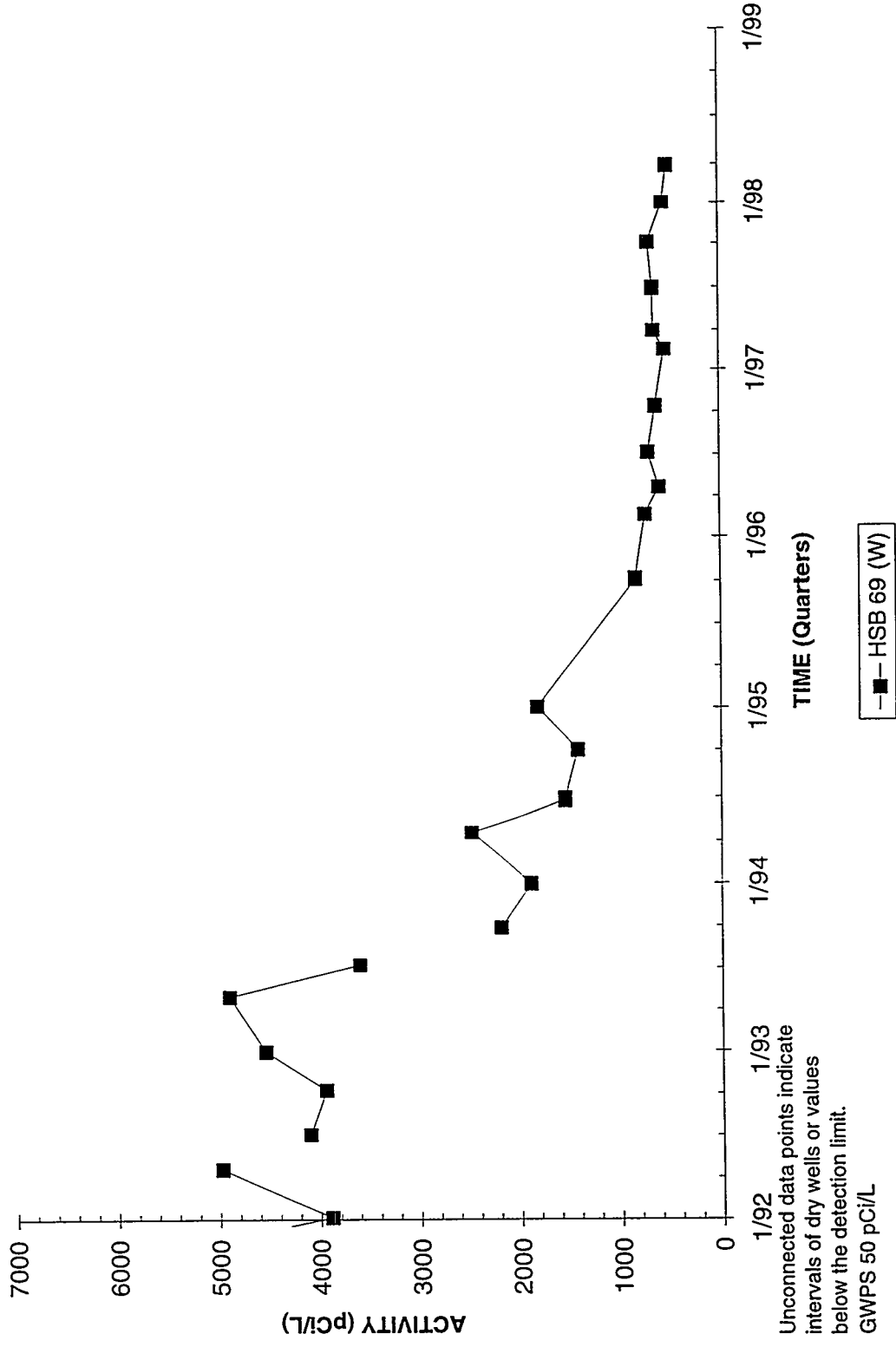
First and Second Quarter 1998

Gross Alpha Activities Well Cluster HSB136



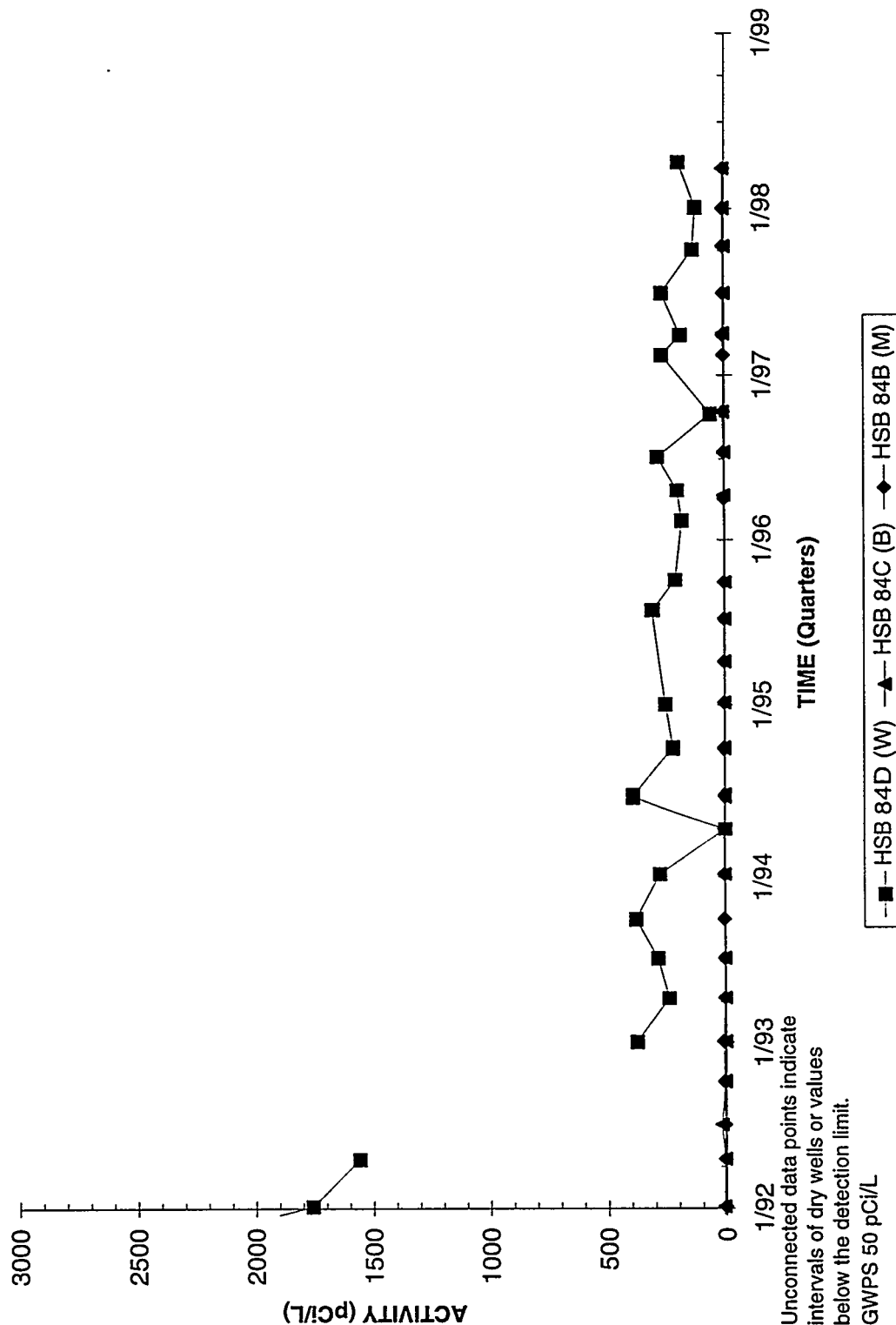
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well HSB 69



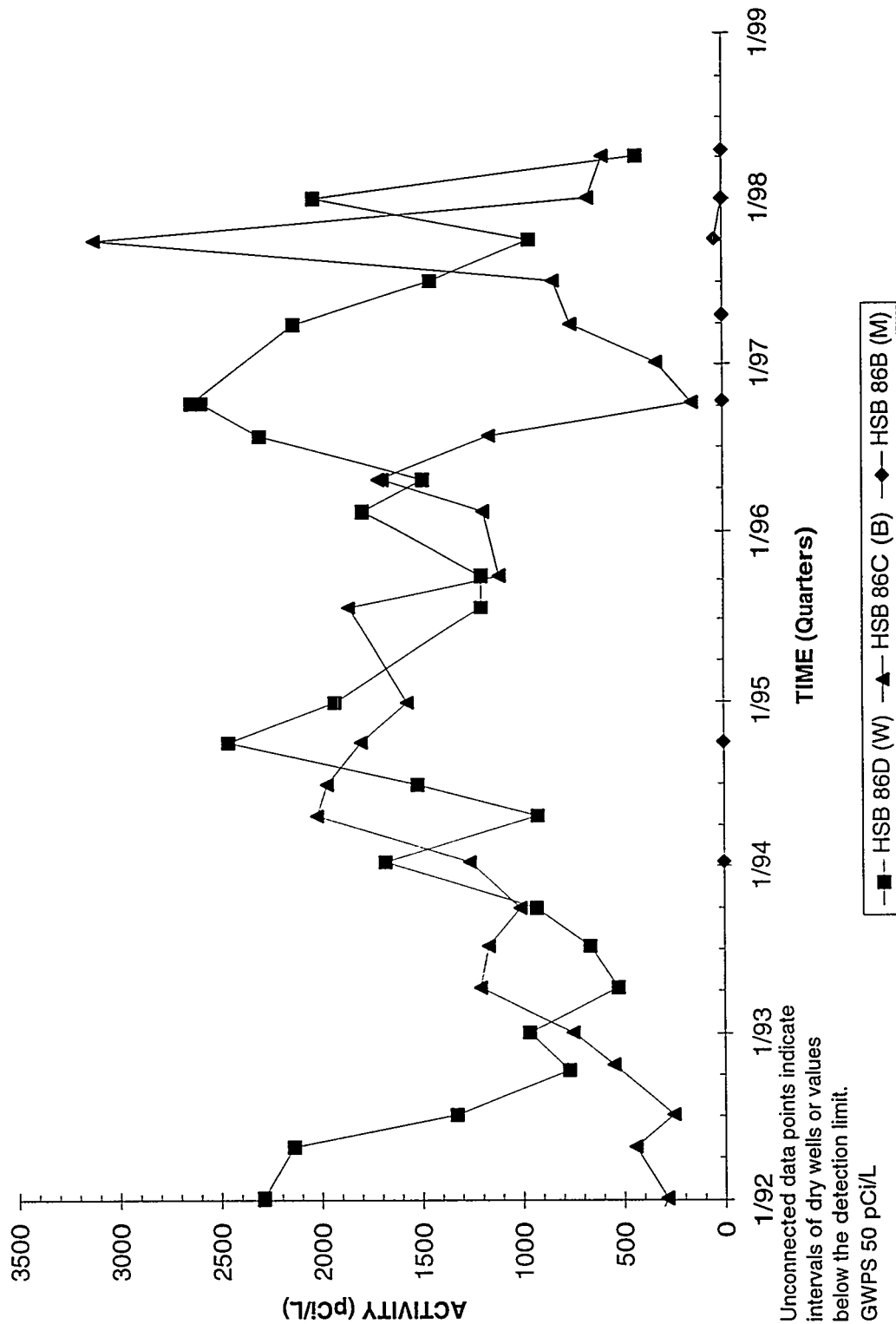
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB 84



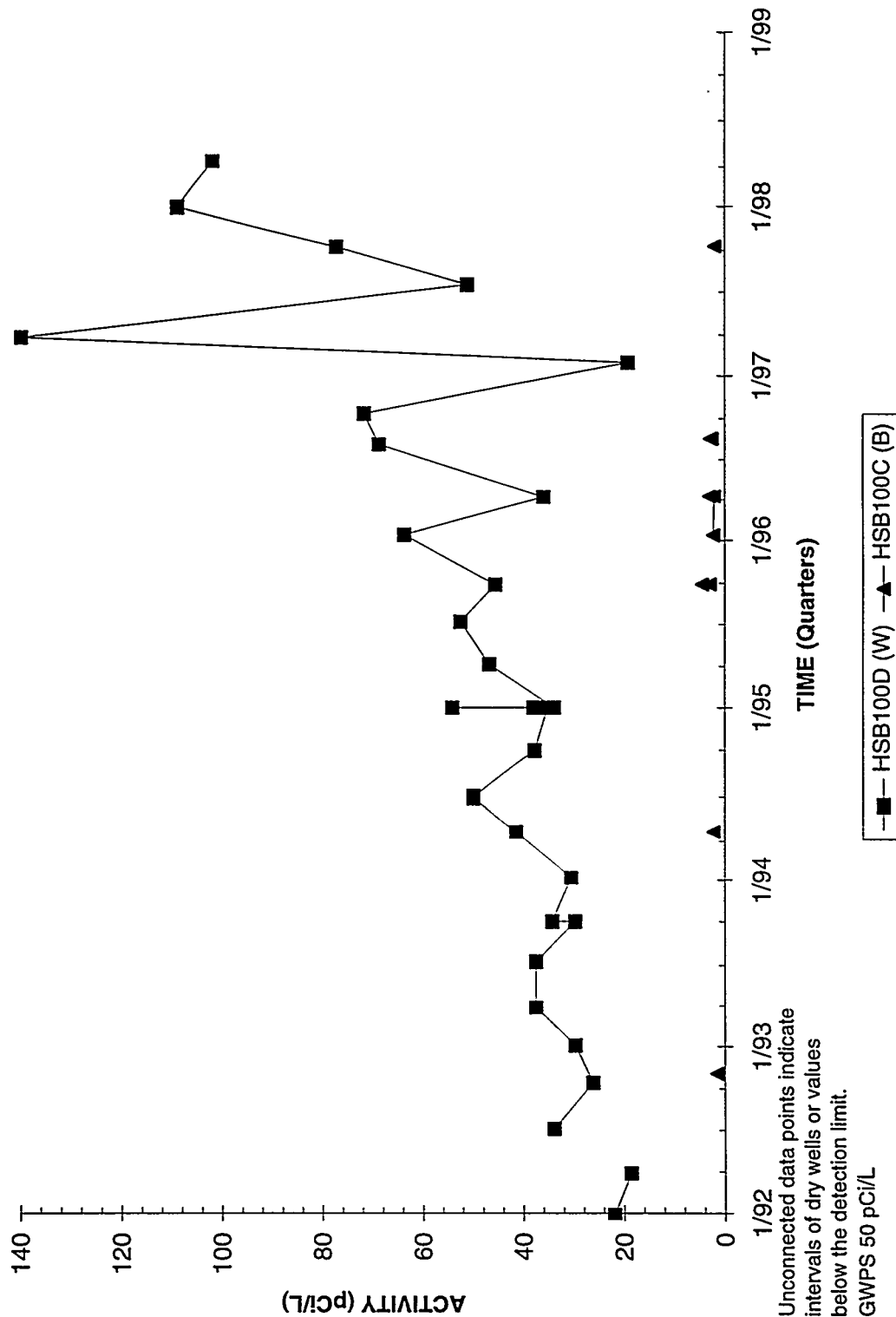
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB 86



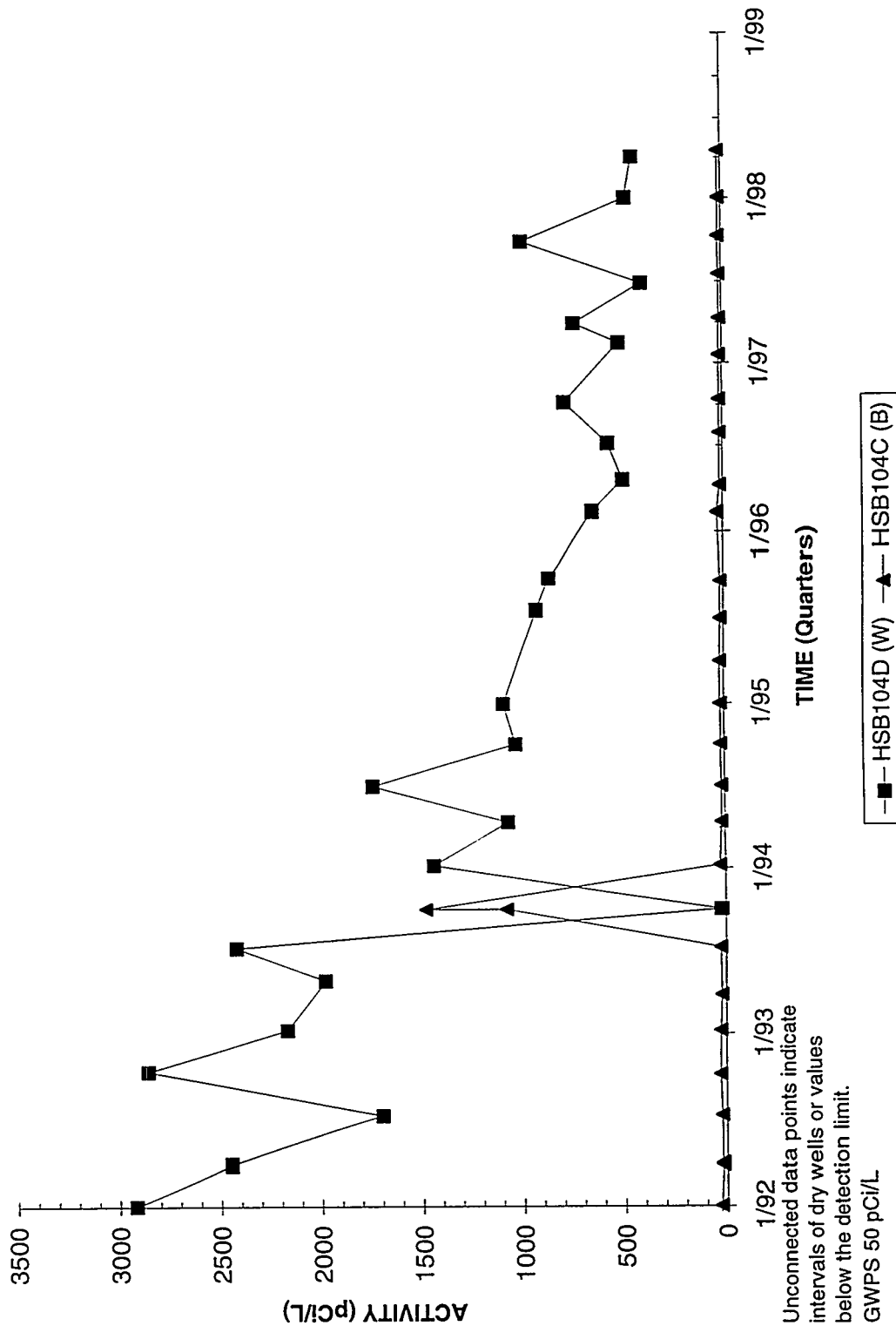
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB100



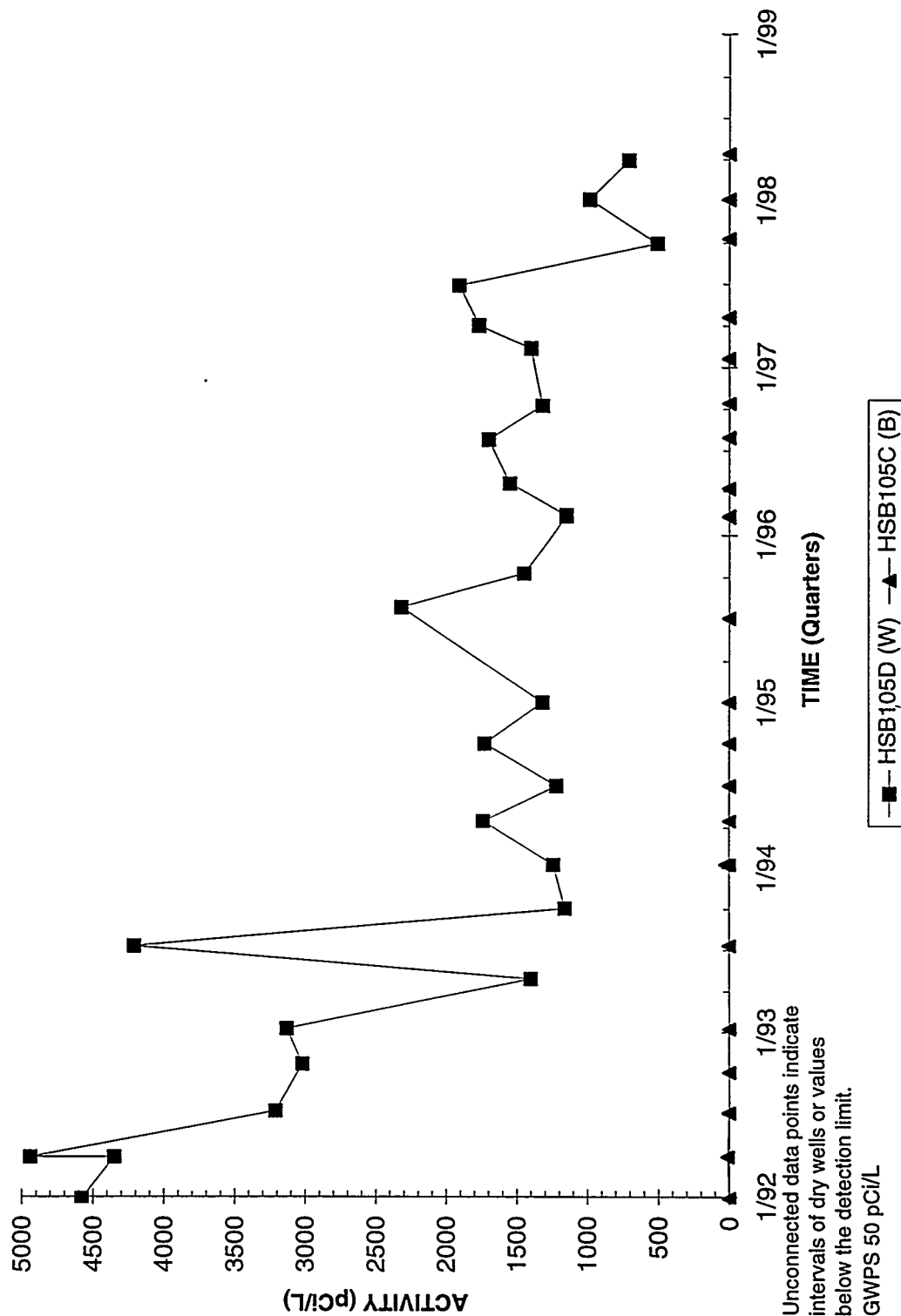
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB104



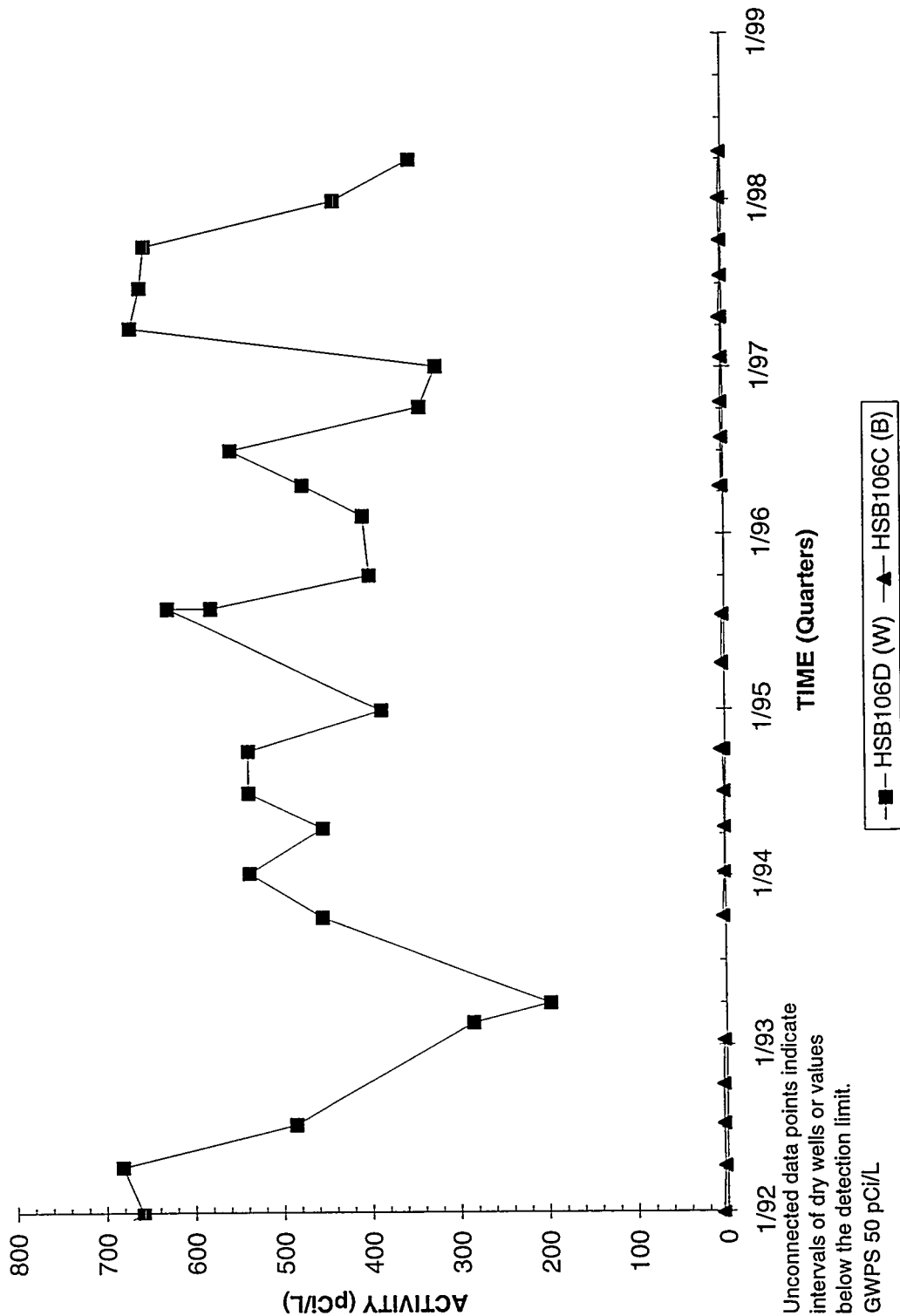
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB105



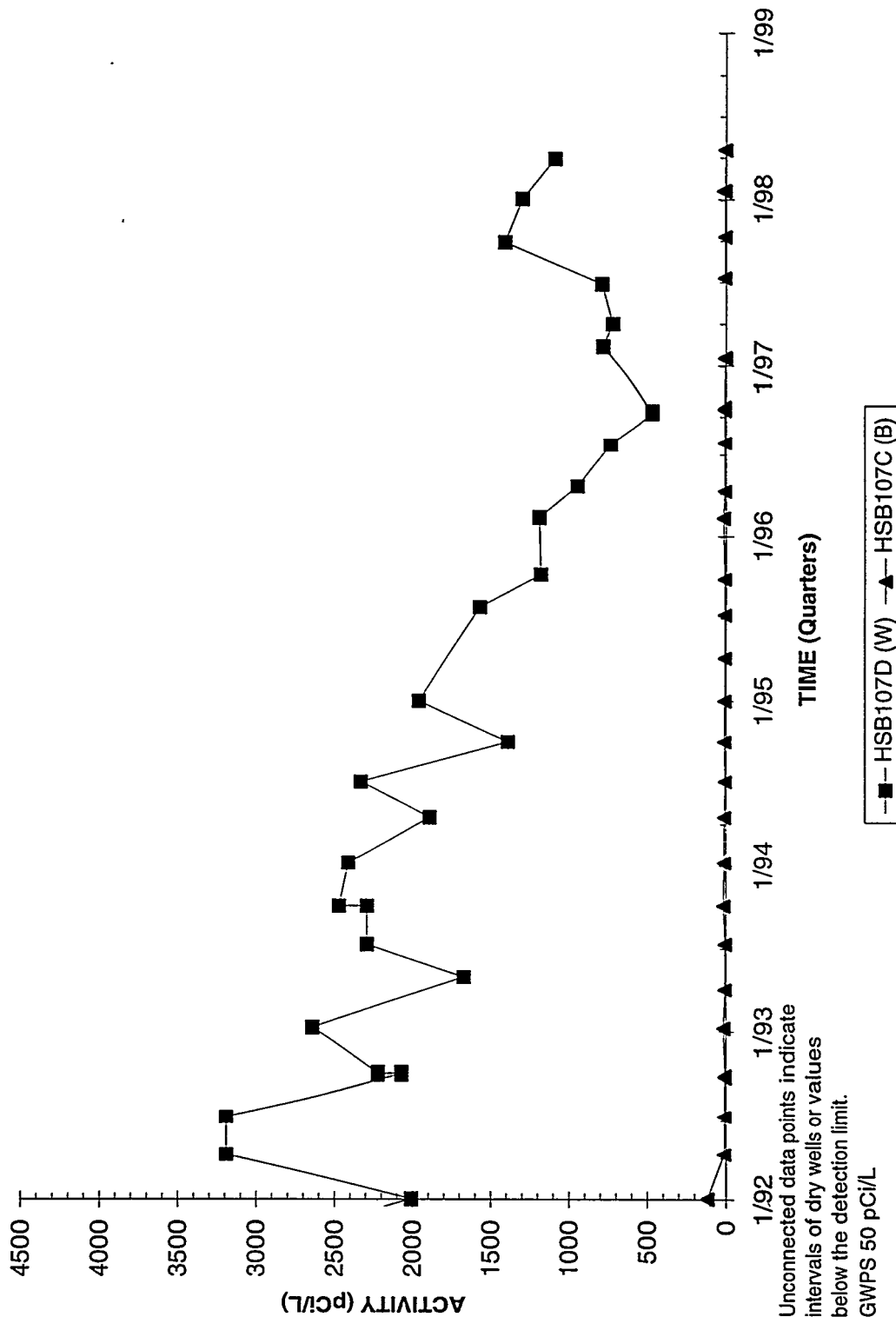
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB106



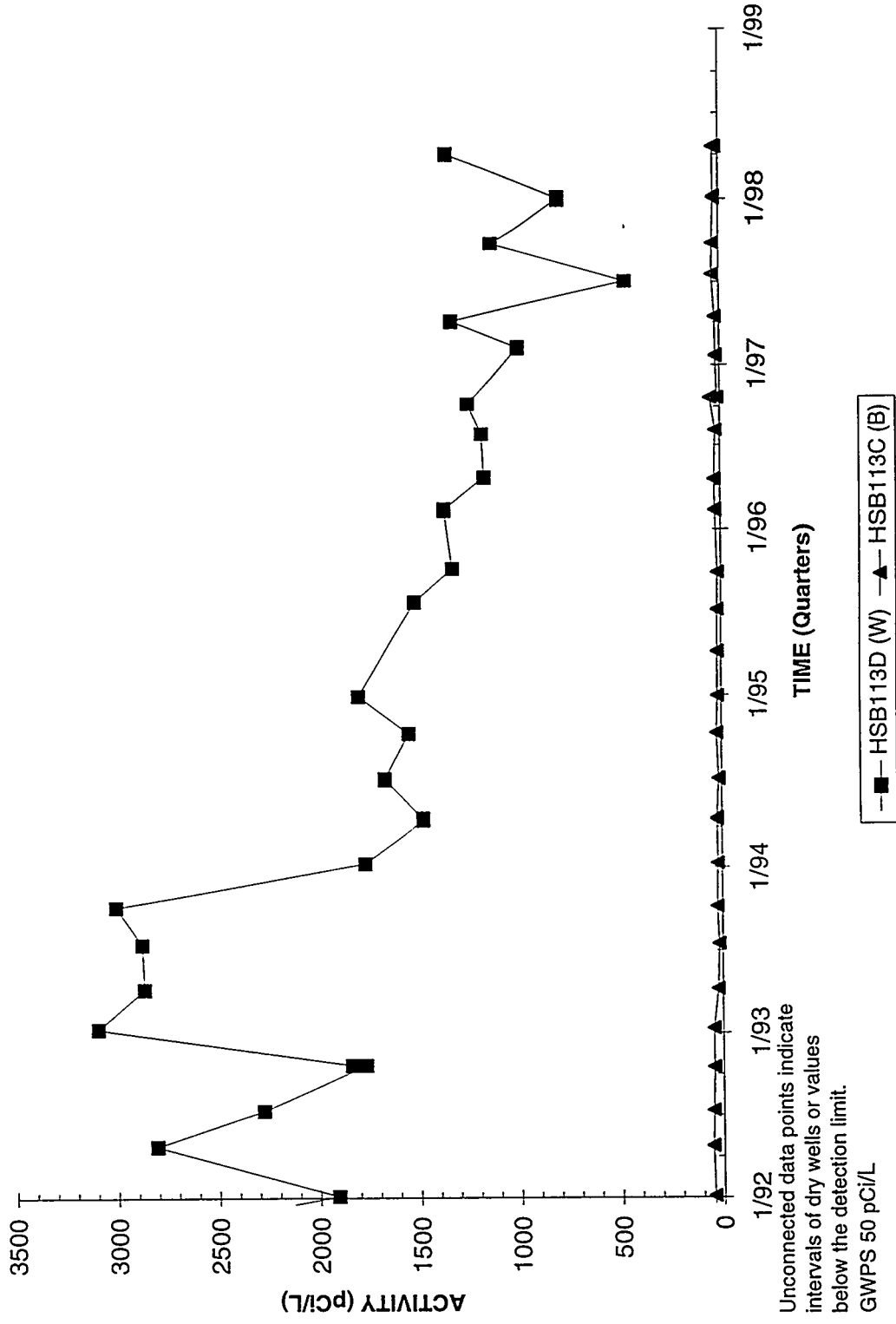
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB107



Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB113



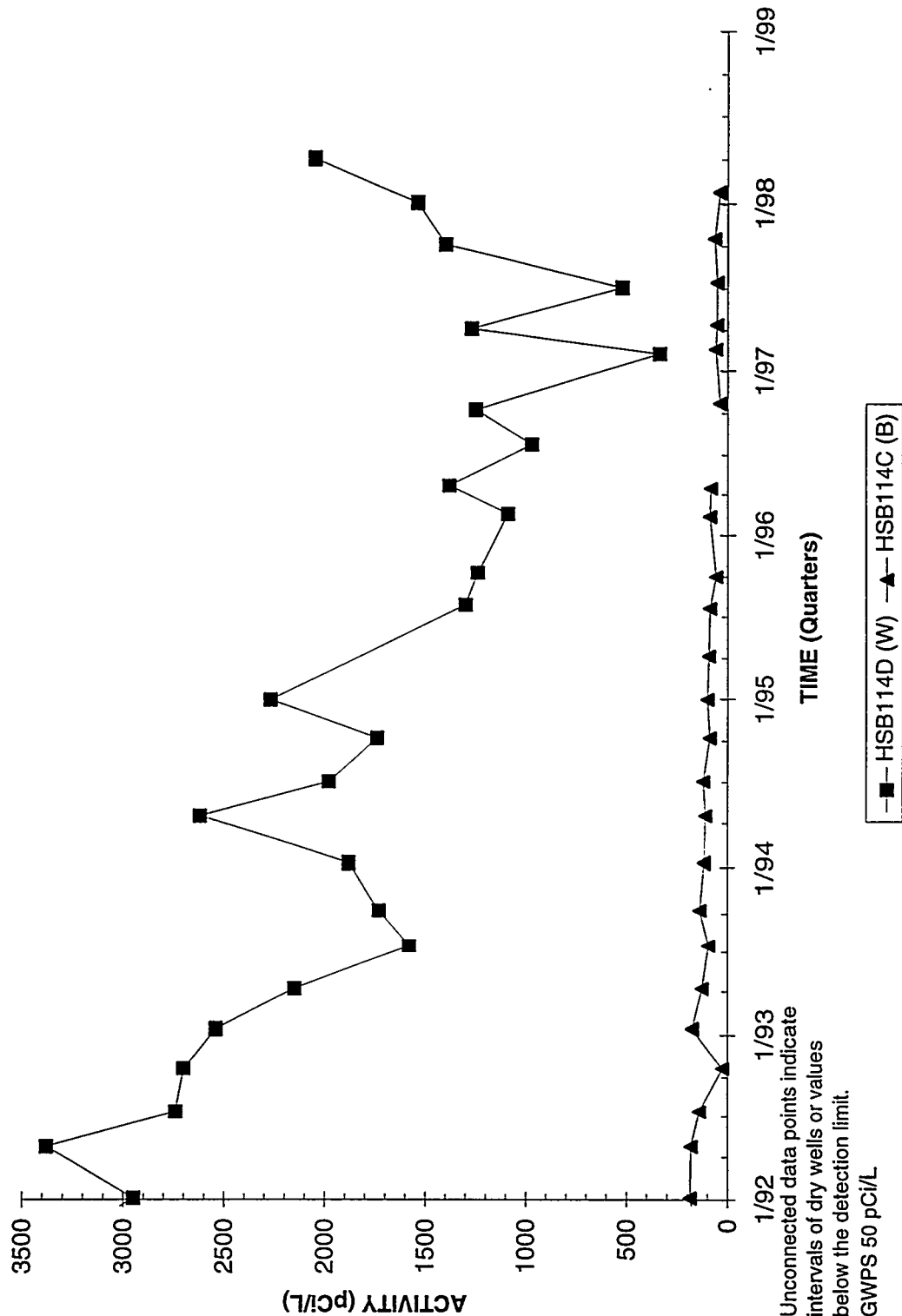
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

H-Ar W/MF

1 90

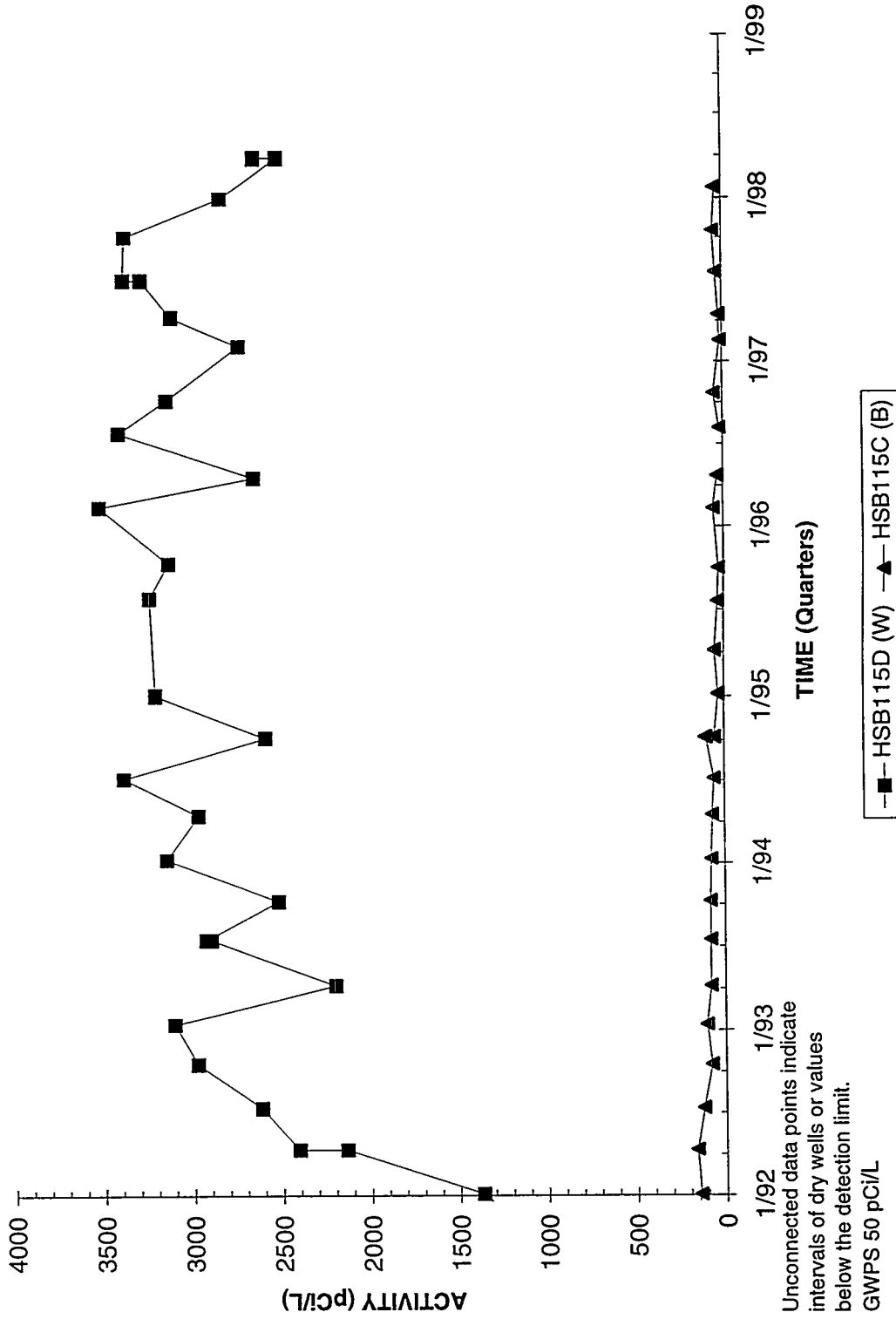
First and Second Quarter 1998

Nonvolatile Beta Activities Well Cluster HSB114



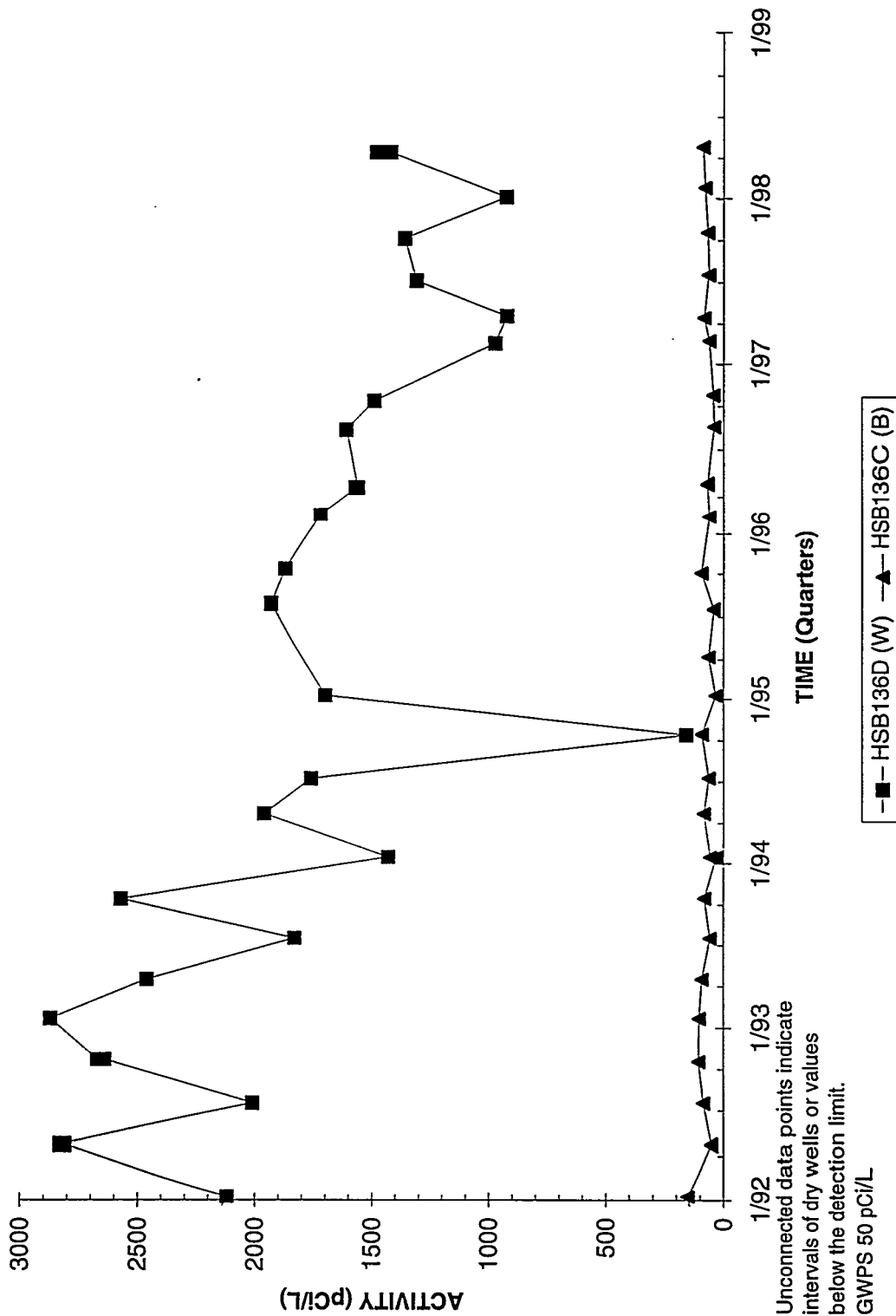
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB115

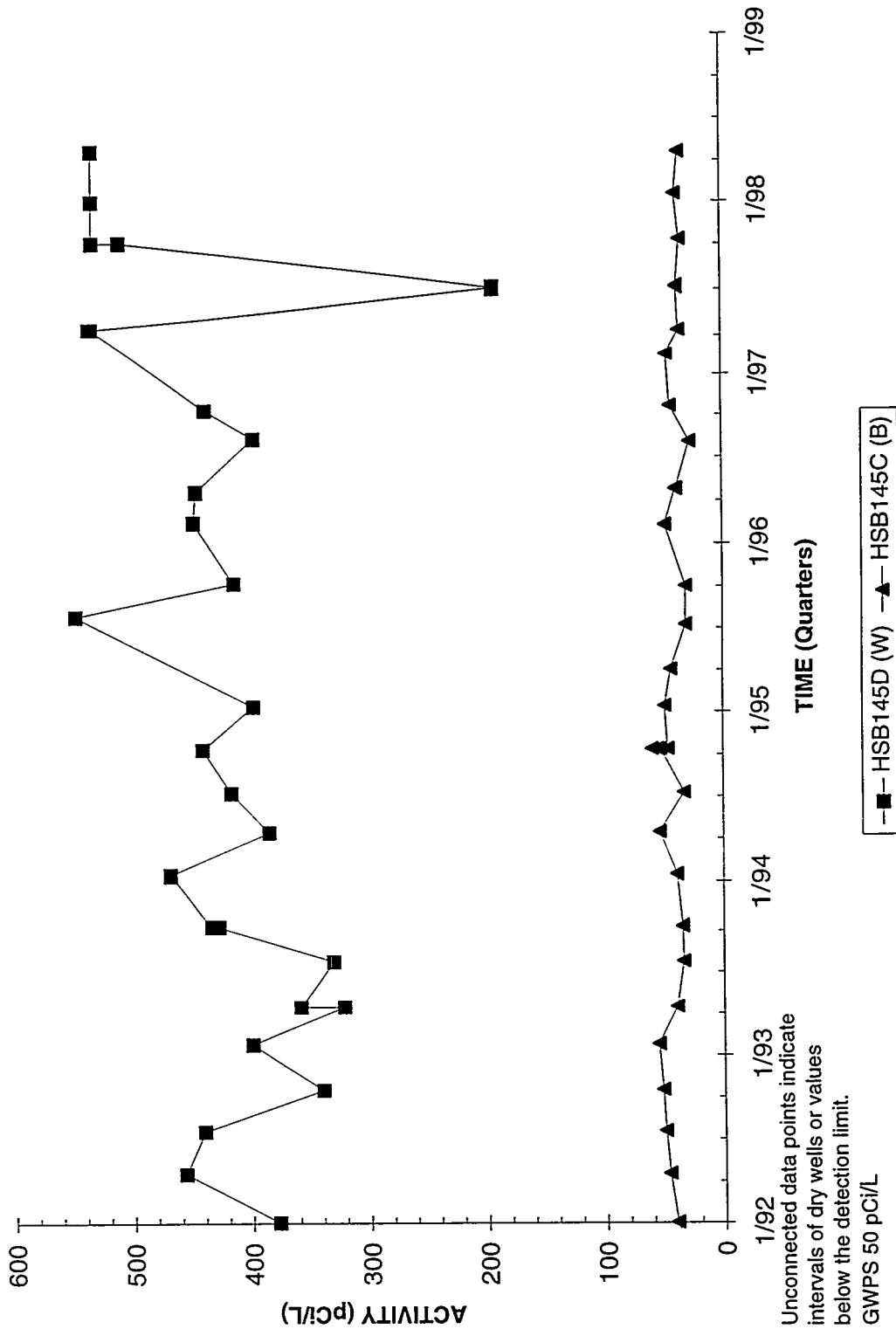


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster HSB136



Nonvolatile Beta Activities Well Cluster HSB145



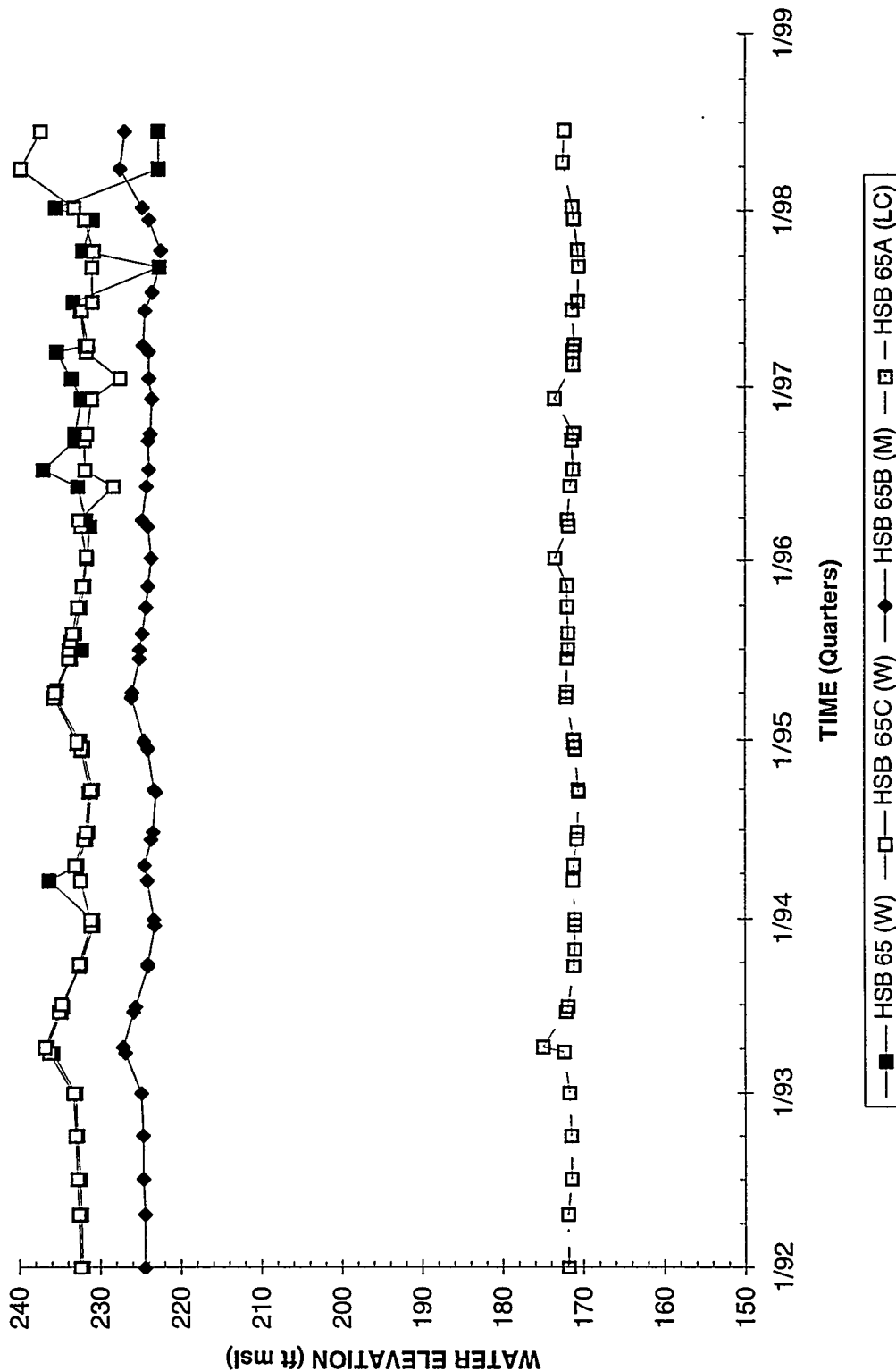
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Appendix E

Hydrographs

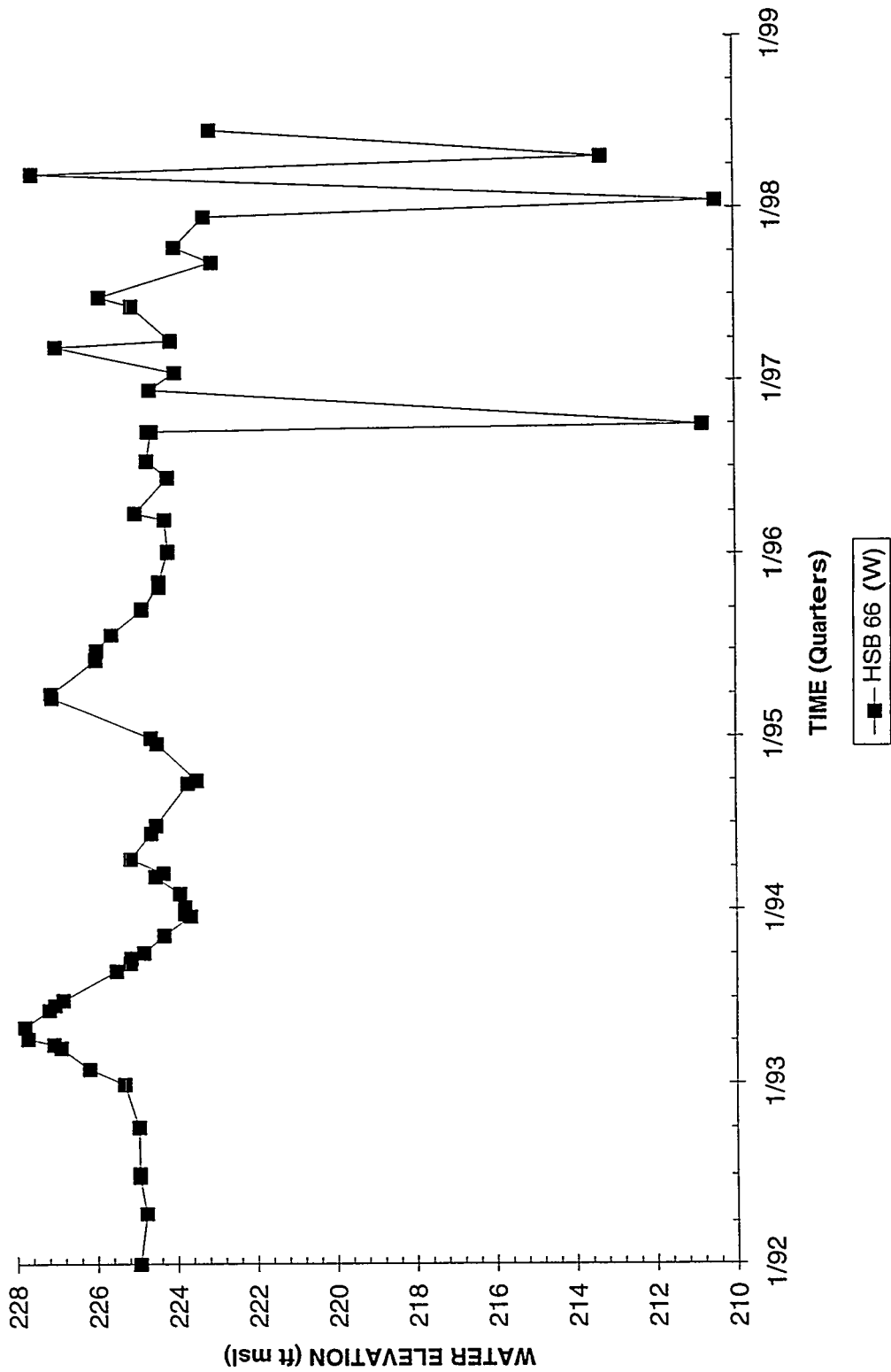
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Hydrograph Well Cluster HSB 65



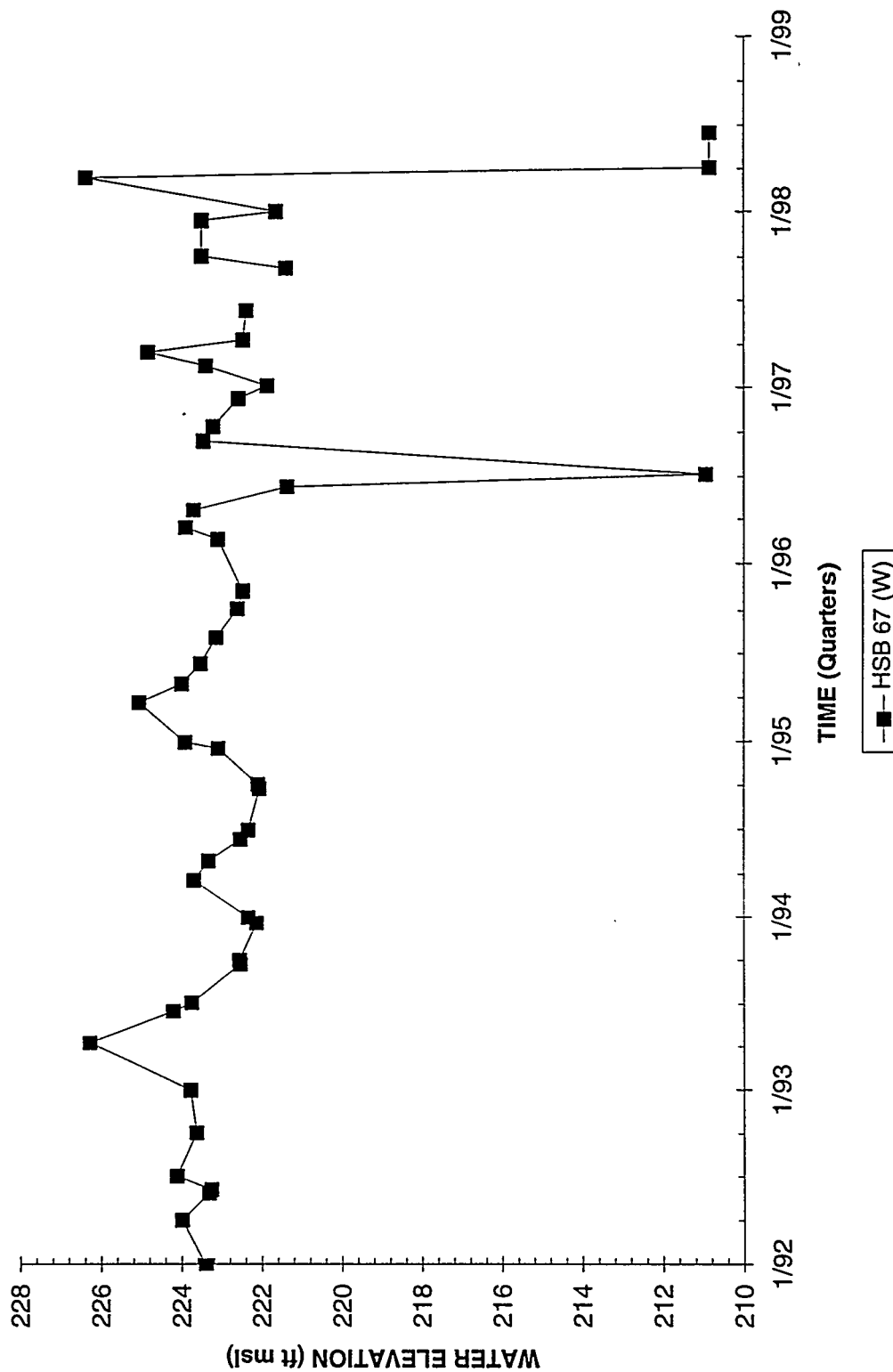
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB 66



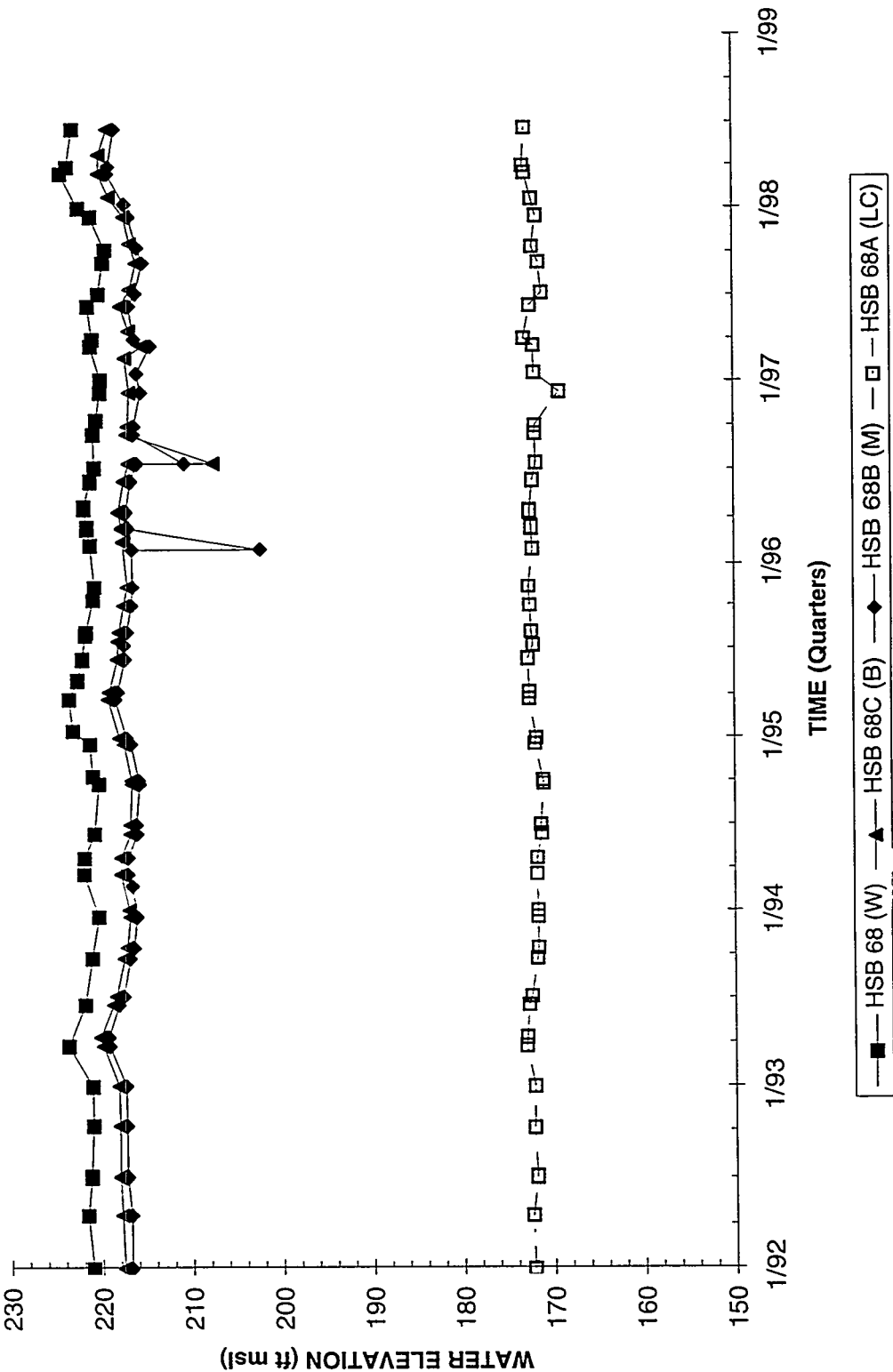
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB 67



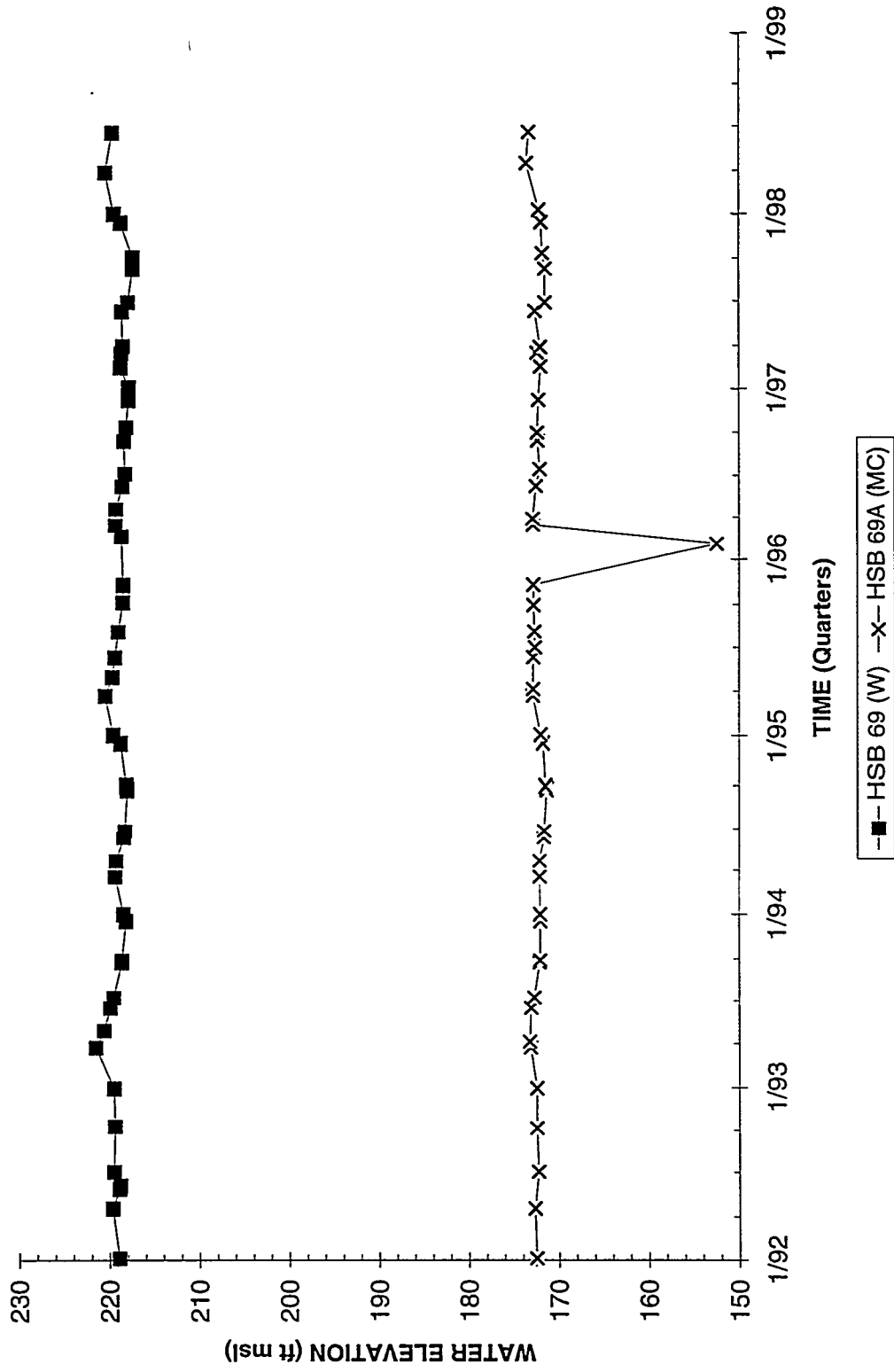
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB 68



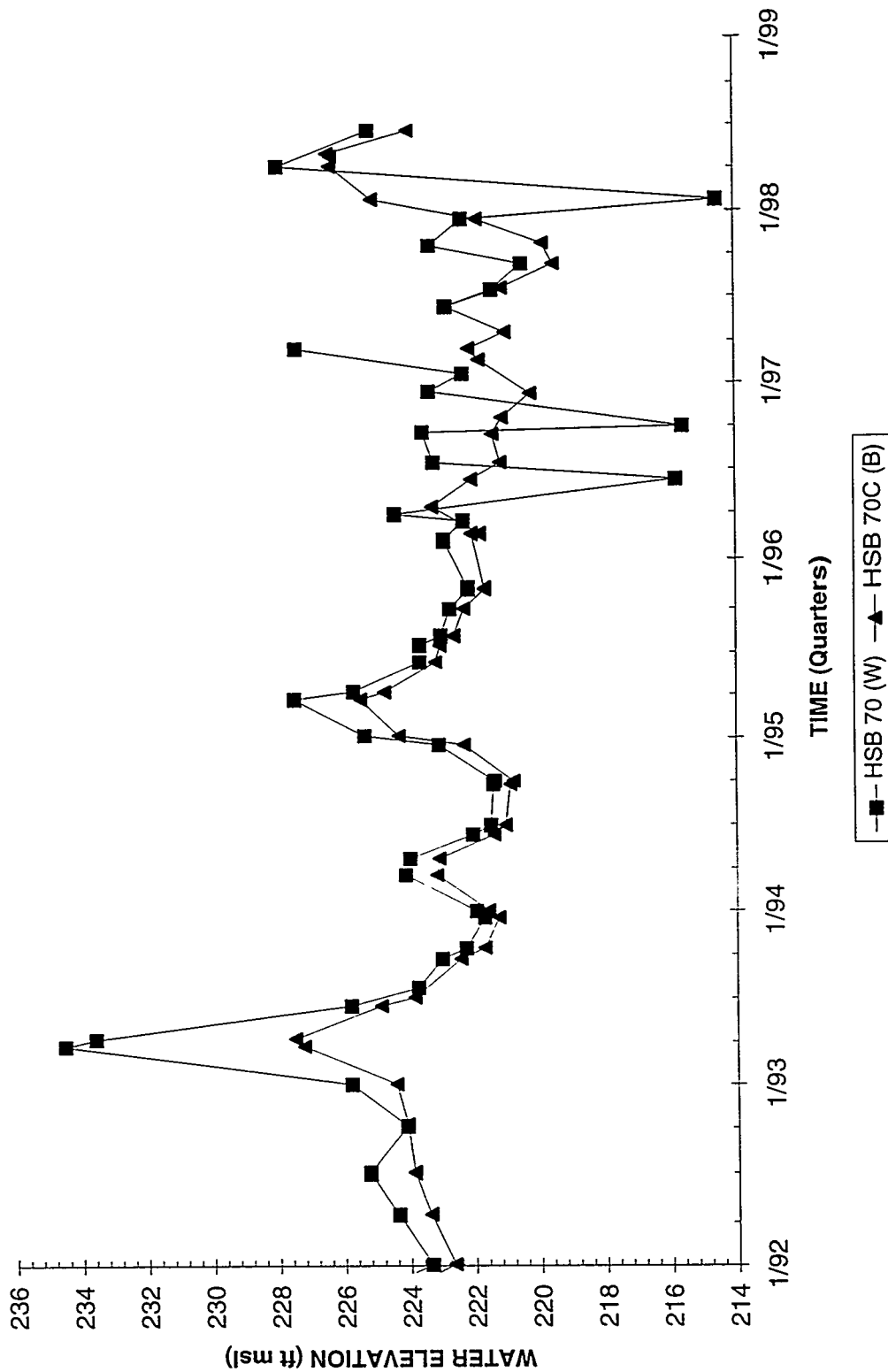
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB 69



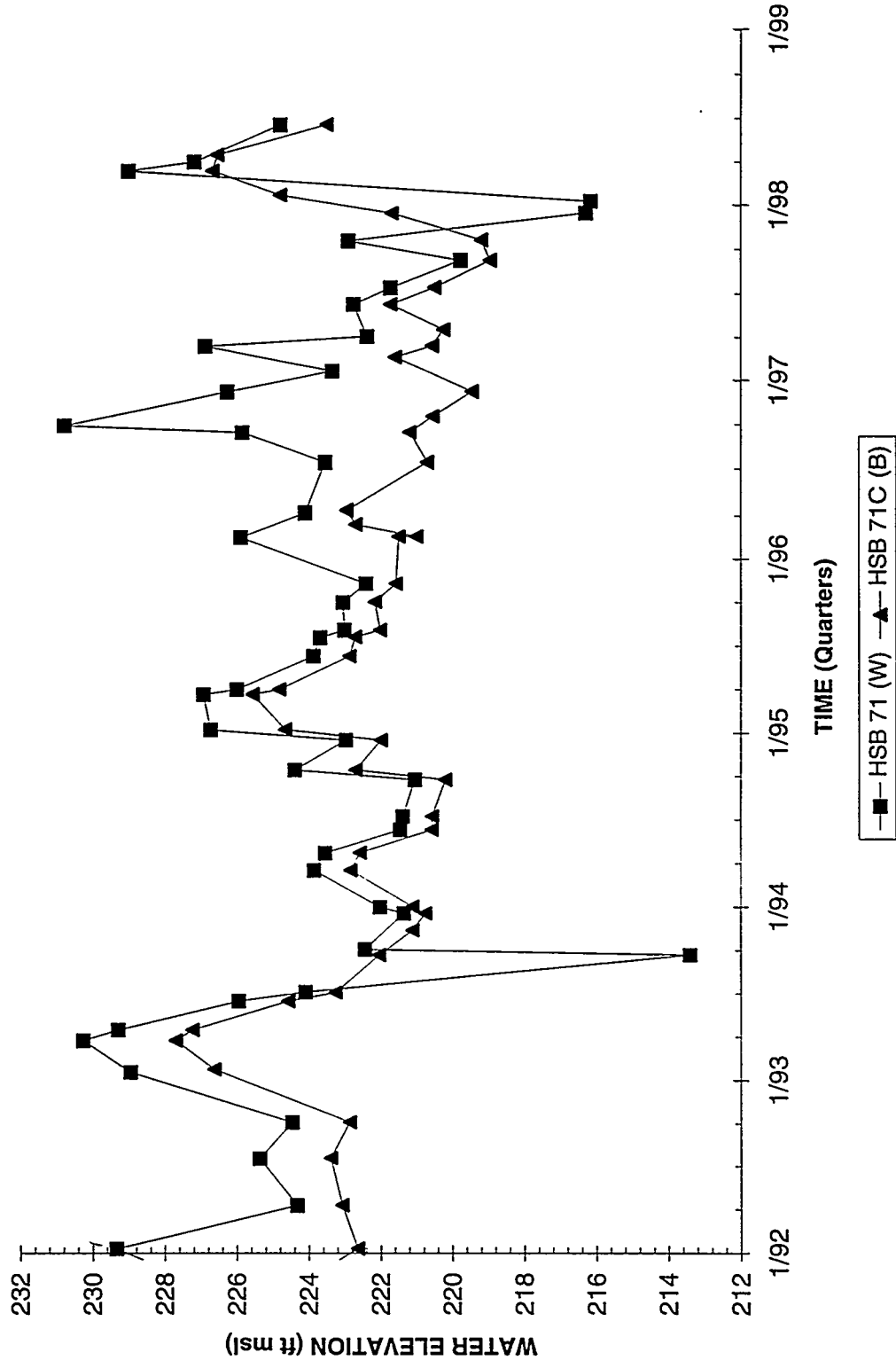
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB 70



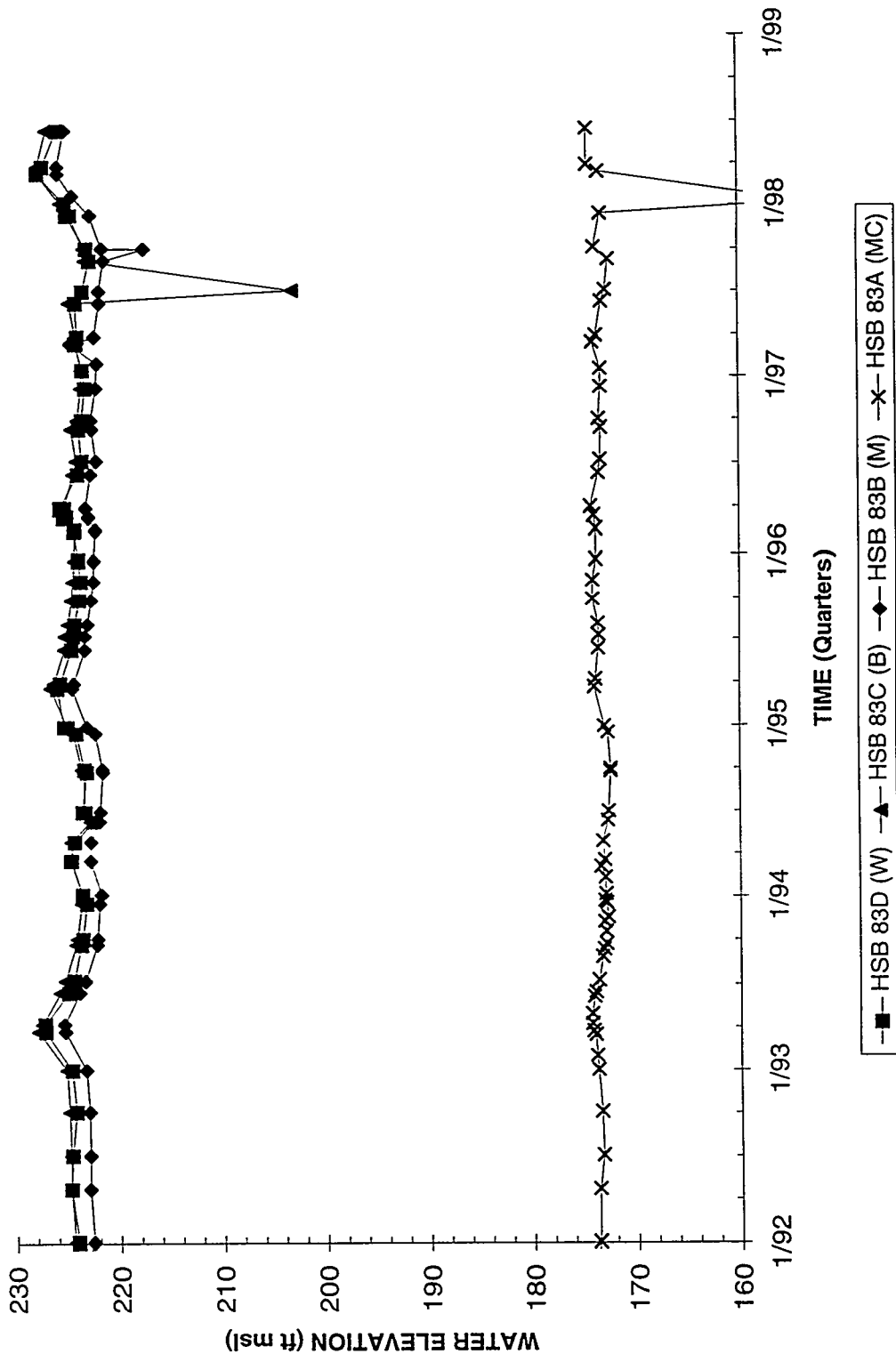
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB 71



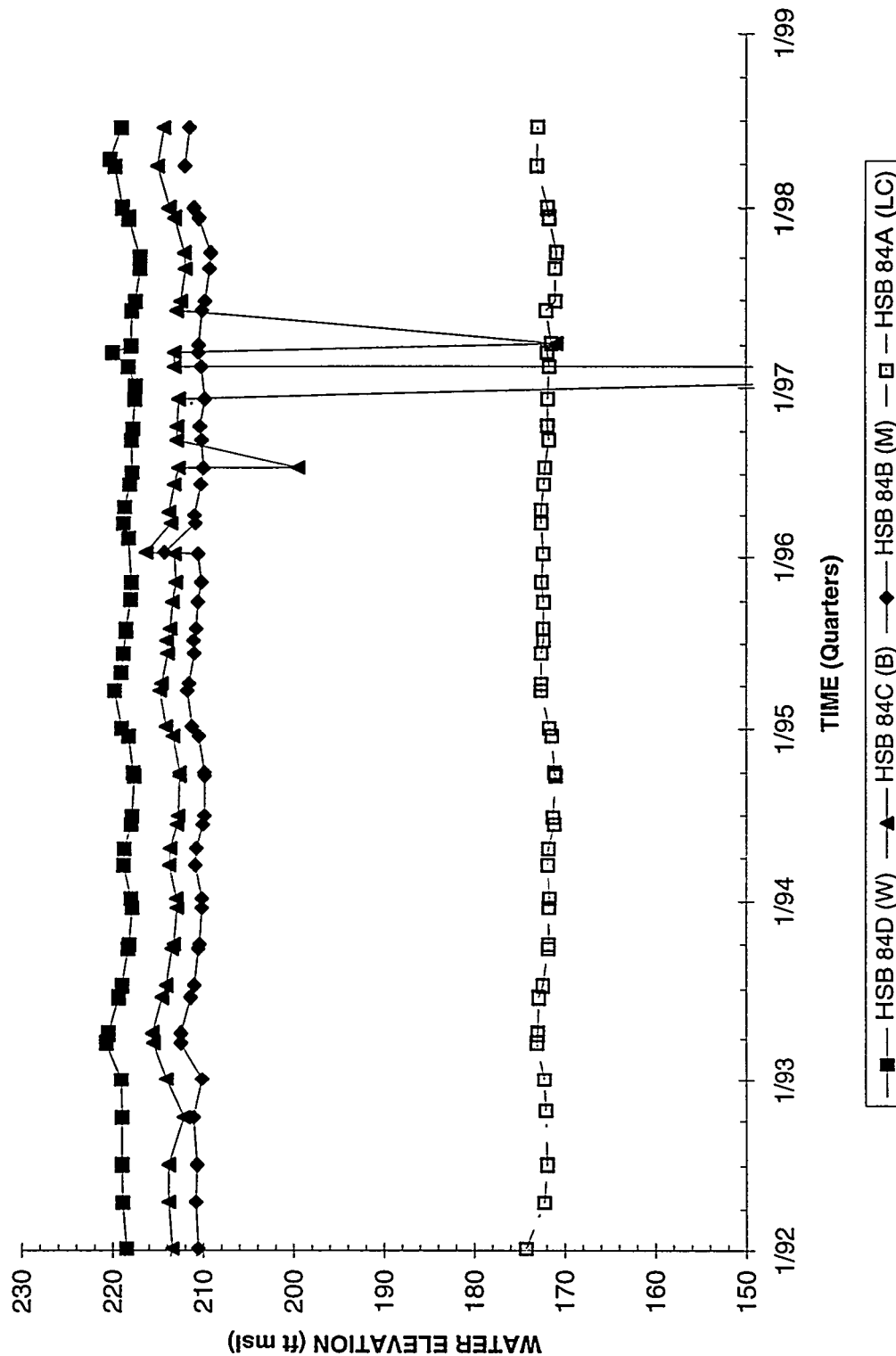
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB 83



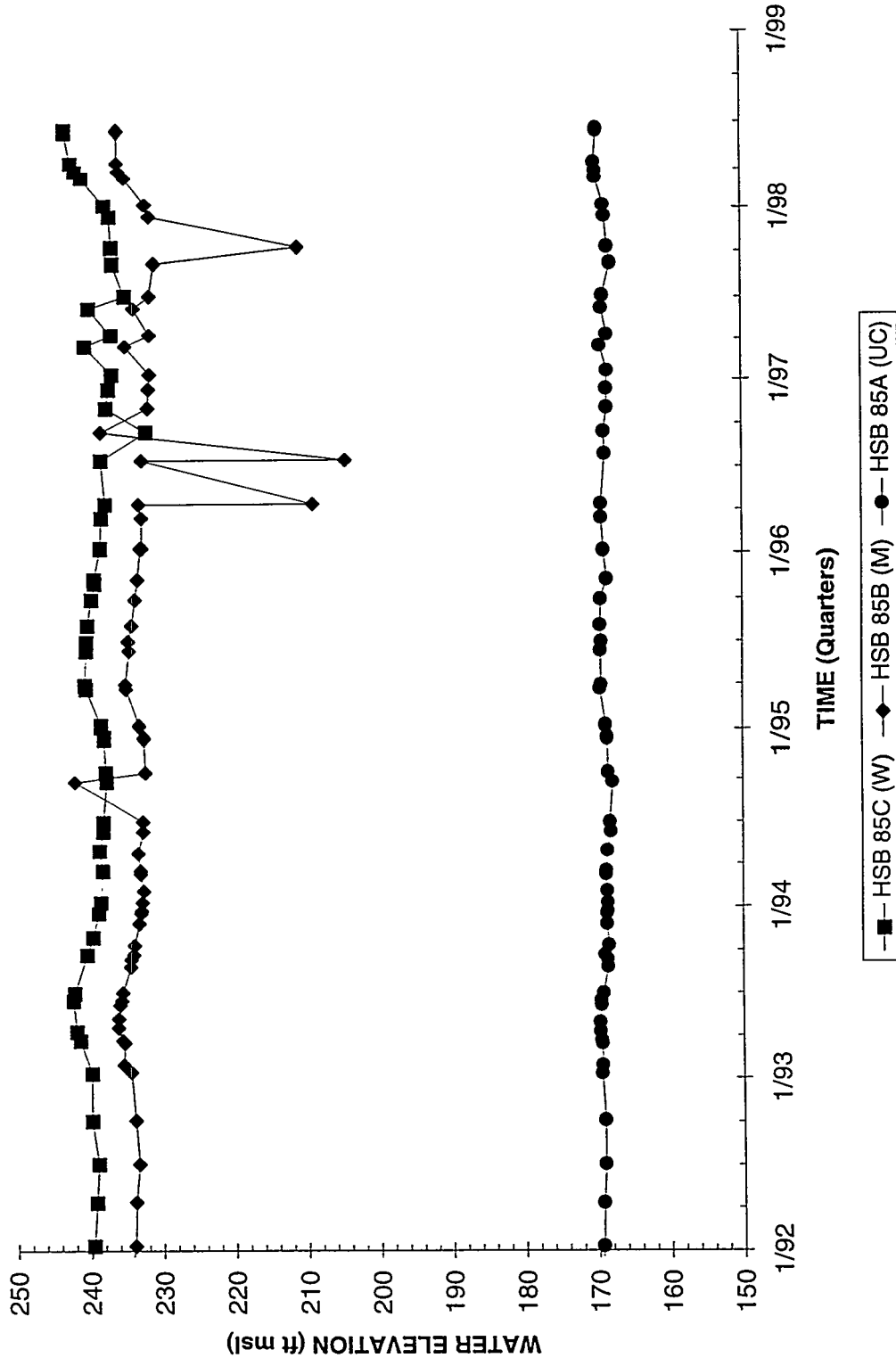
Note: W=Water Table (IB2); B=Bamwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB 84



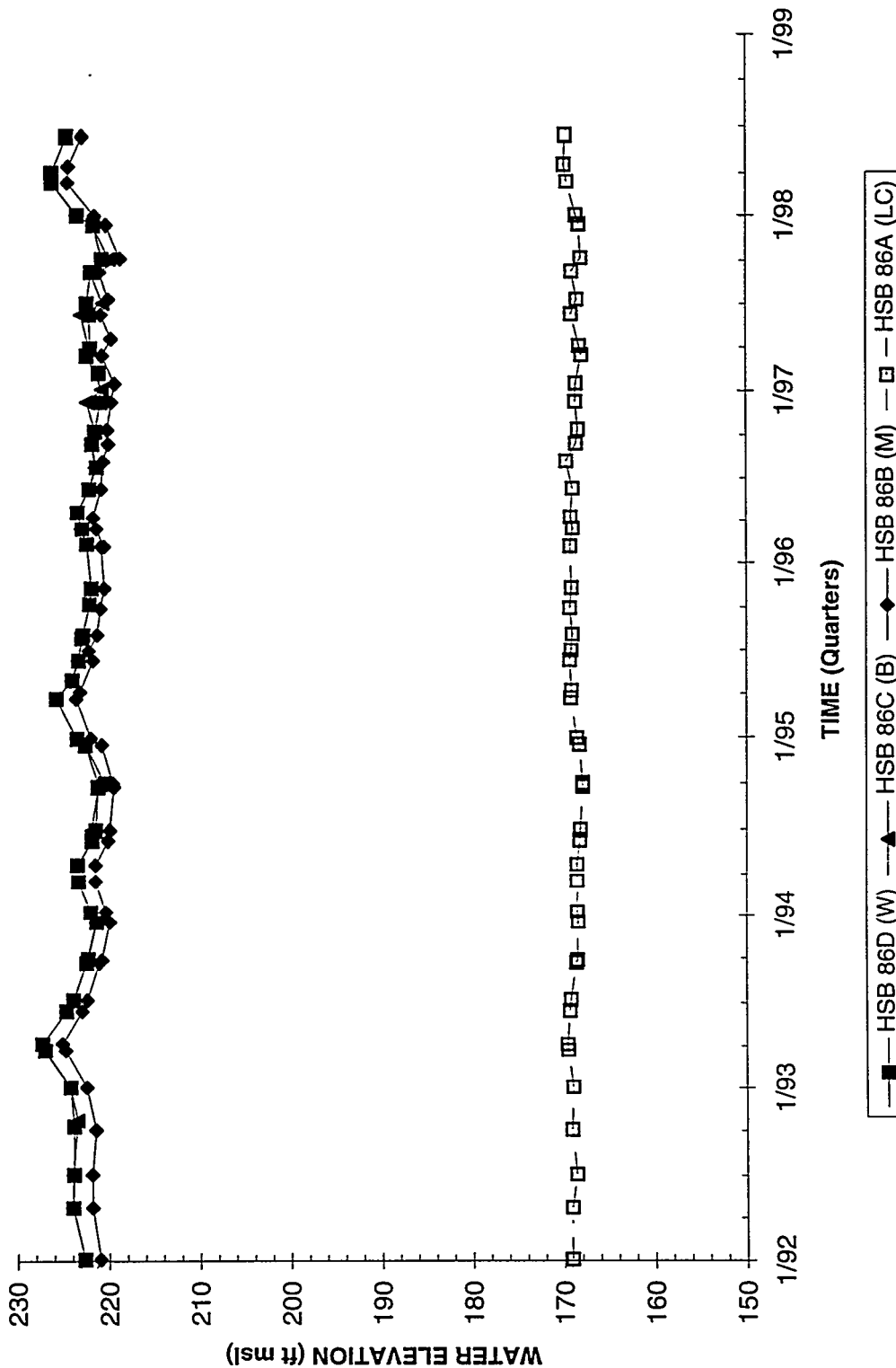
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB 85



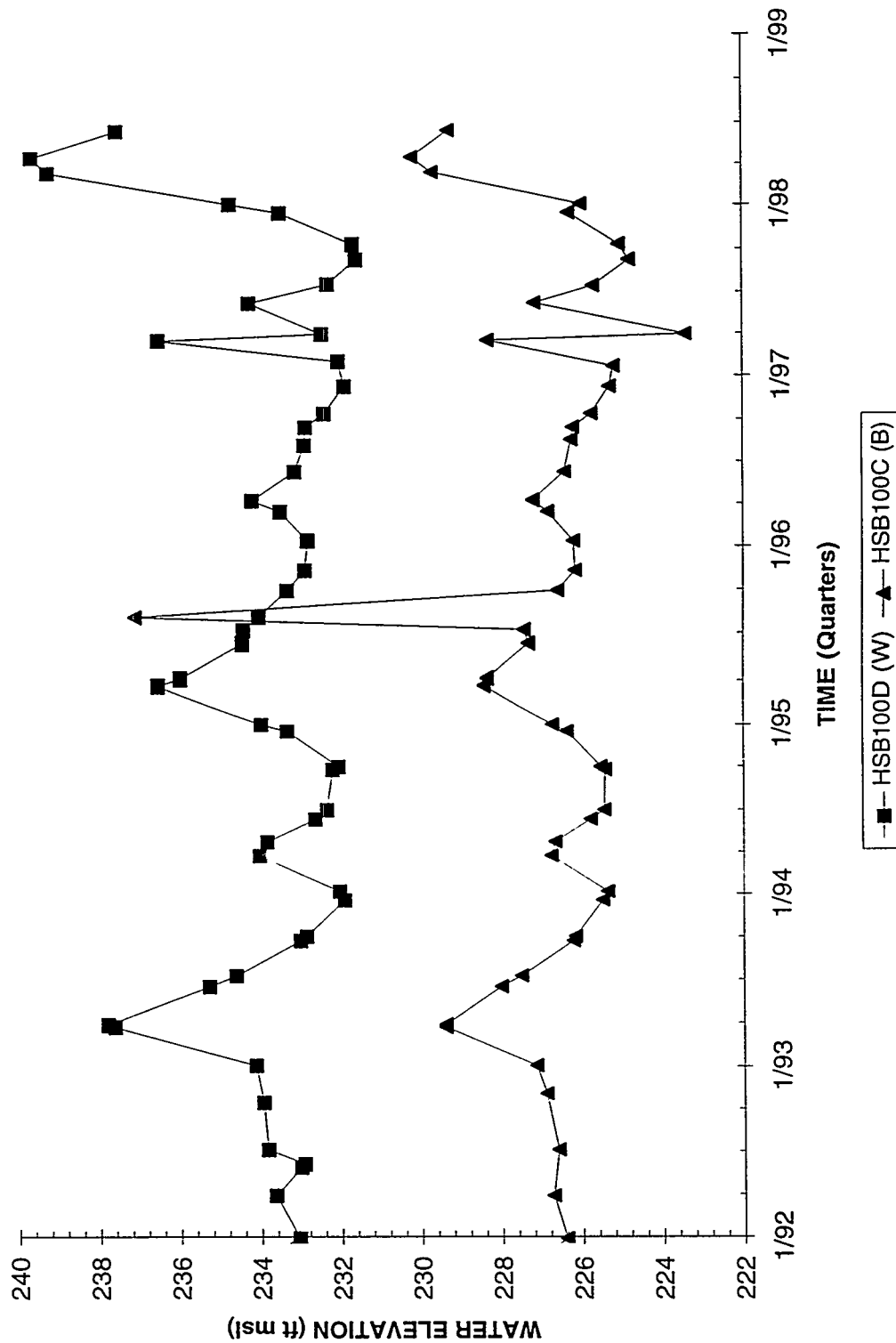
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB 86



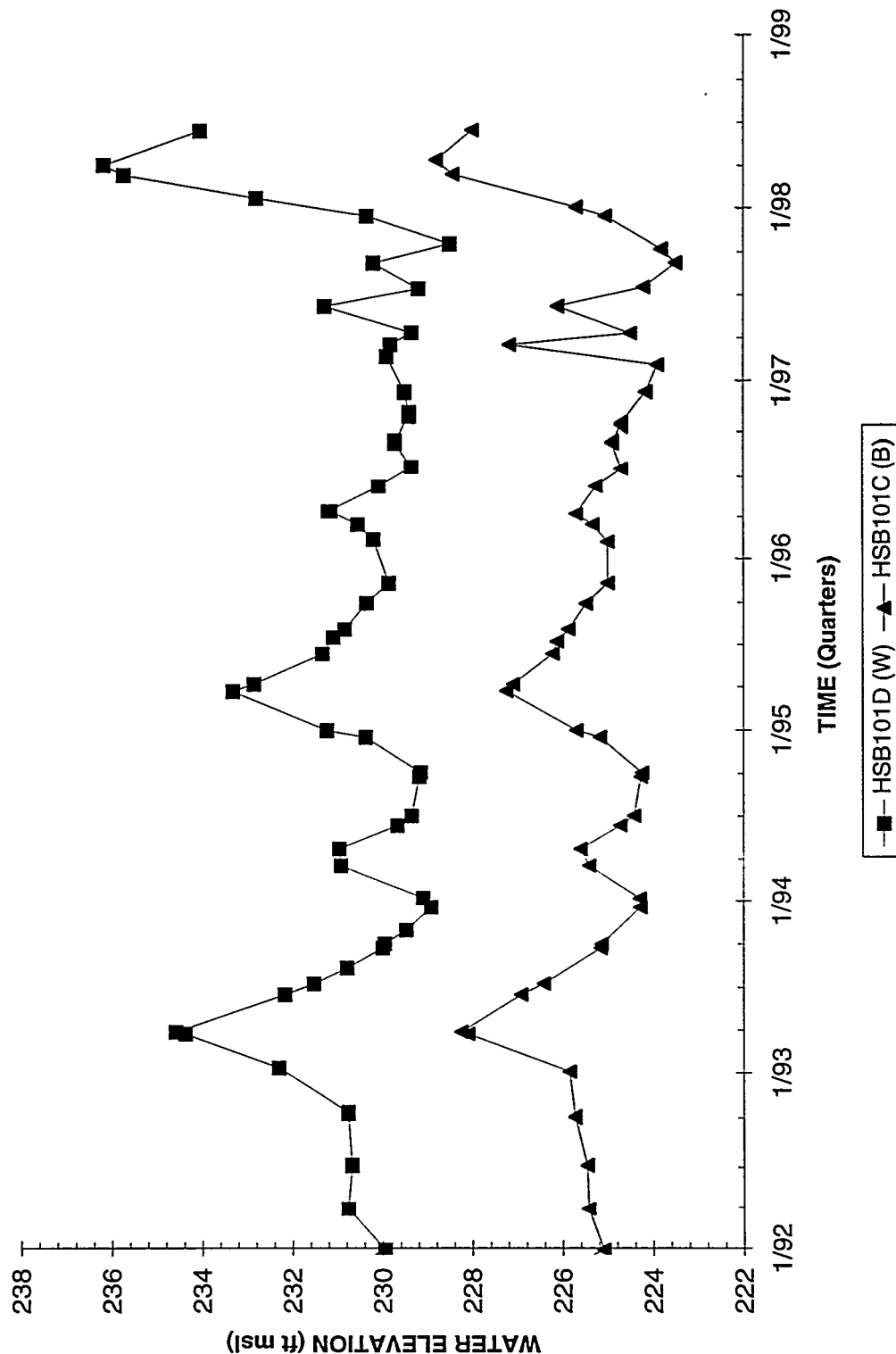
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB100



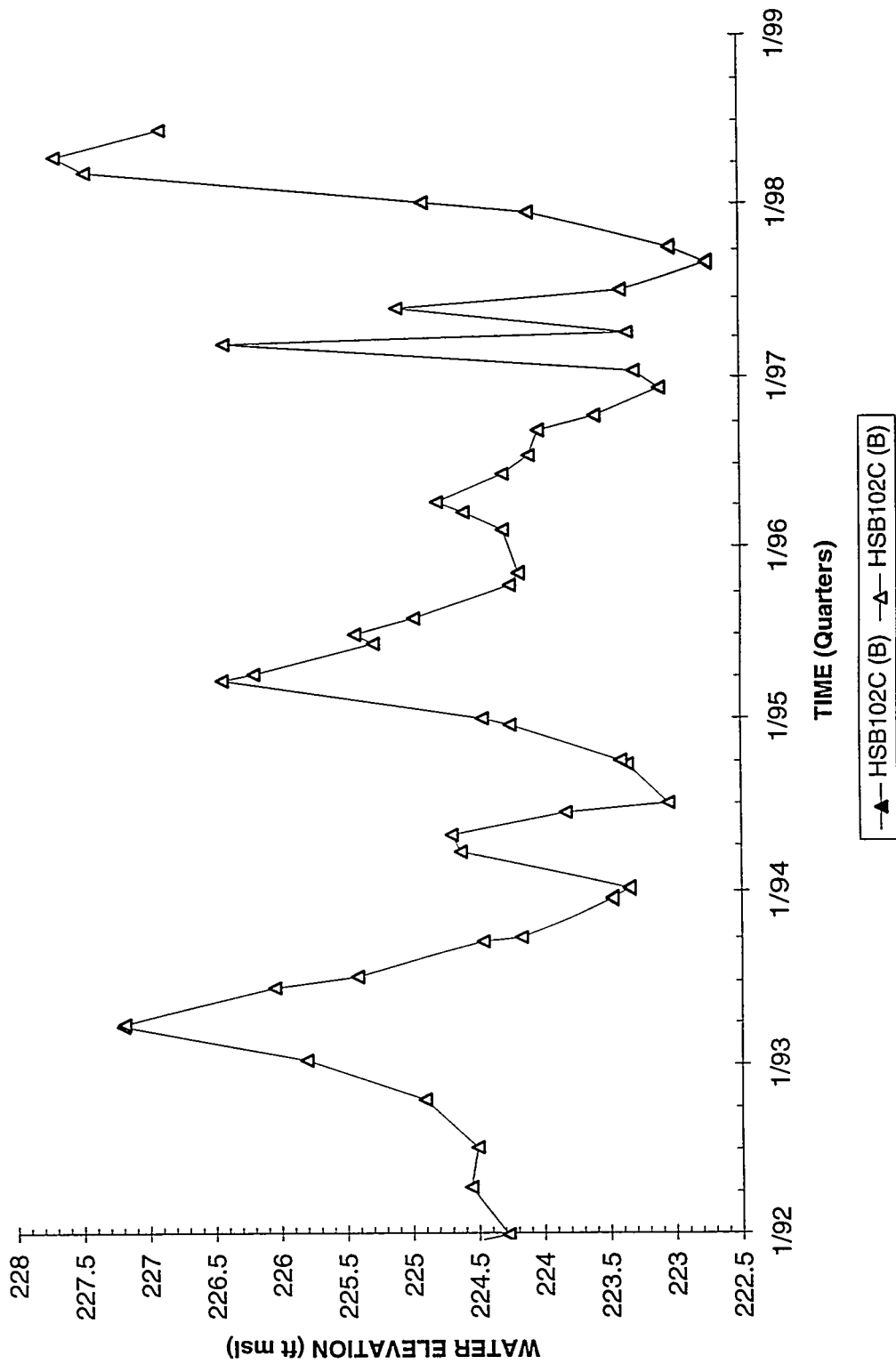
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB101



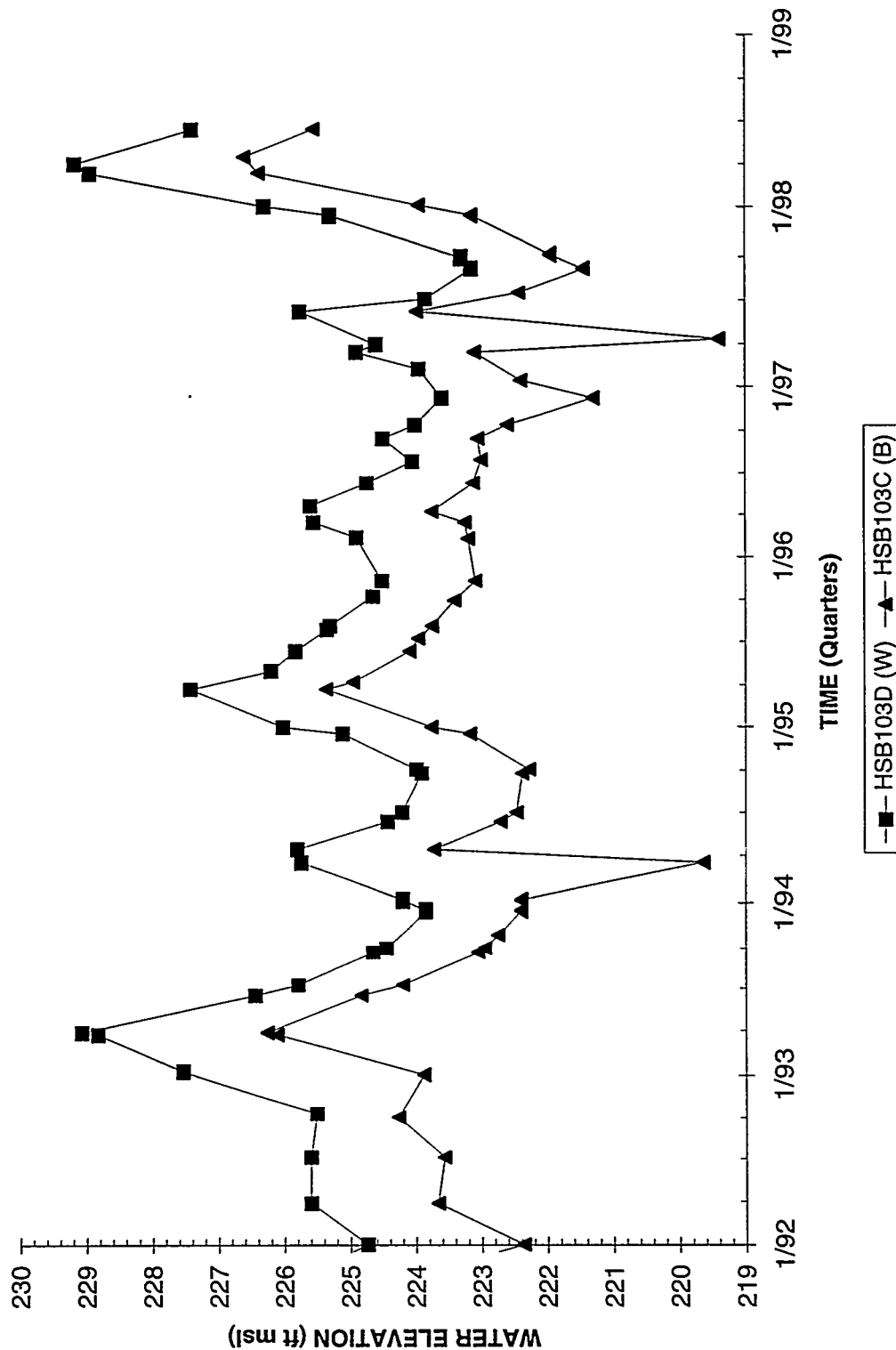
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB102



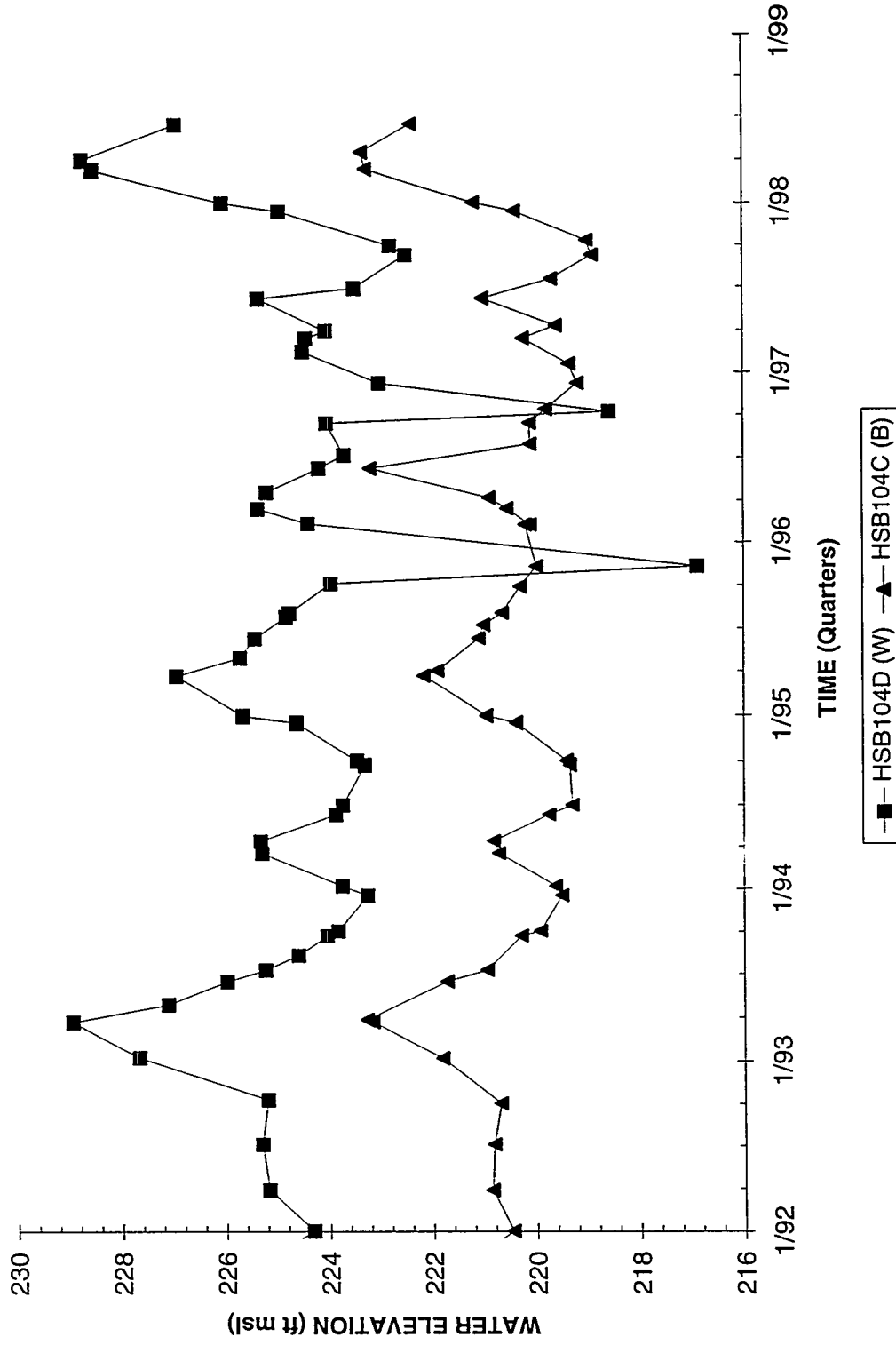
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB103



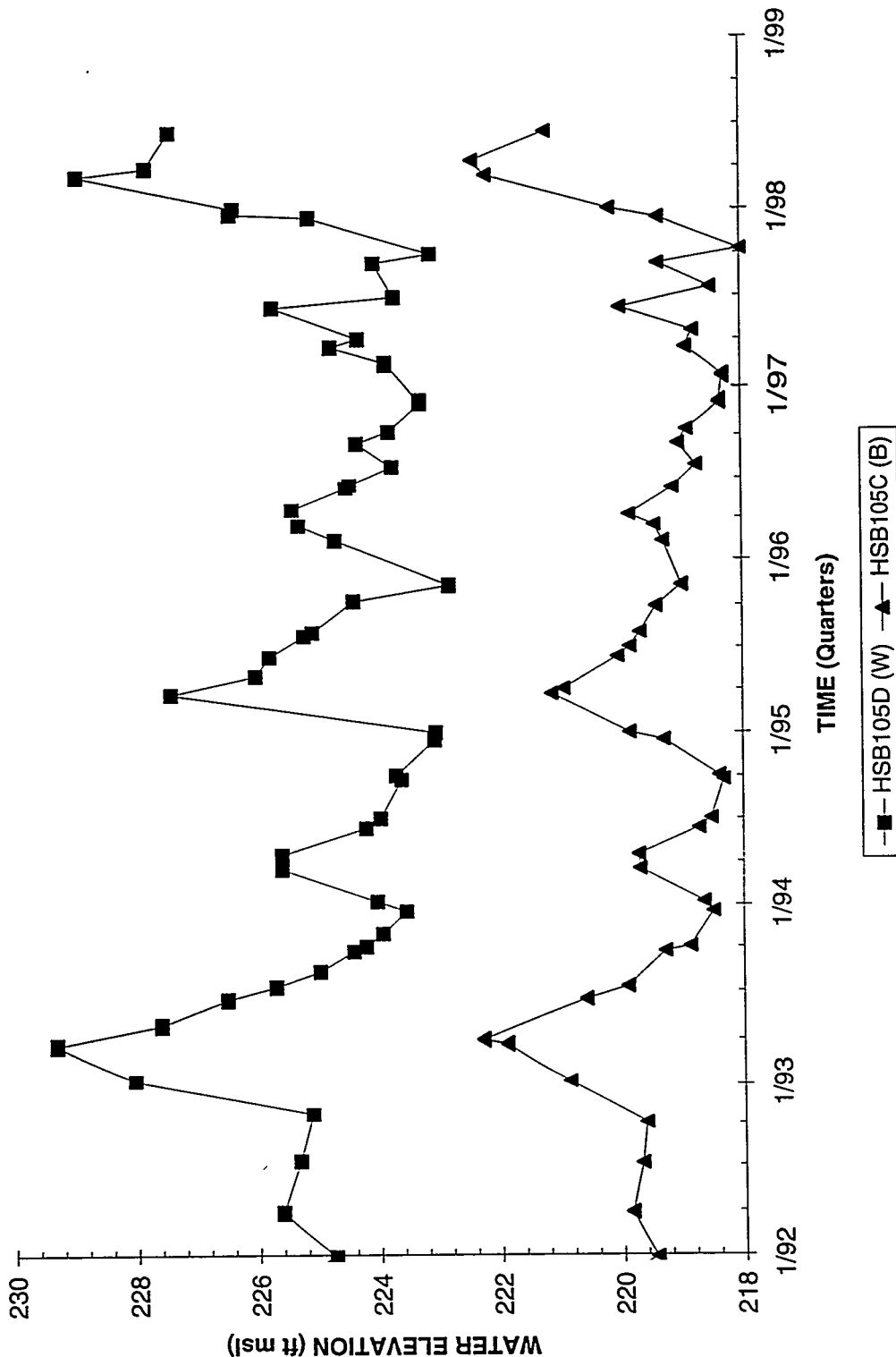
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB104



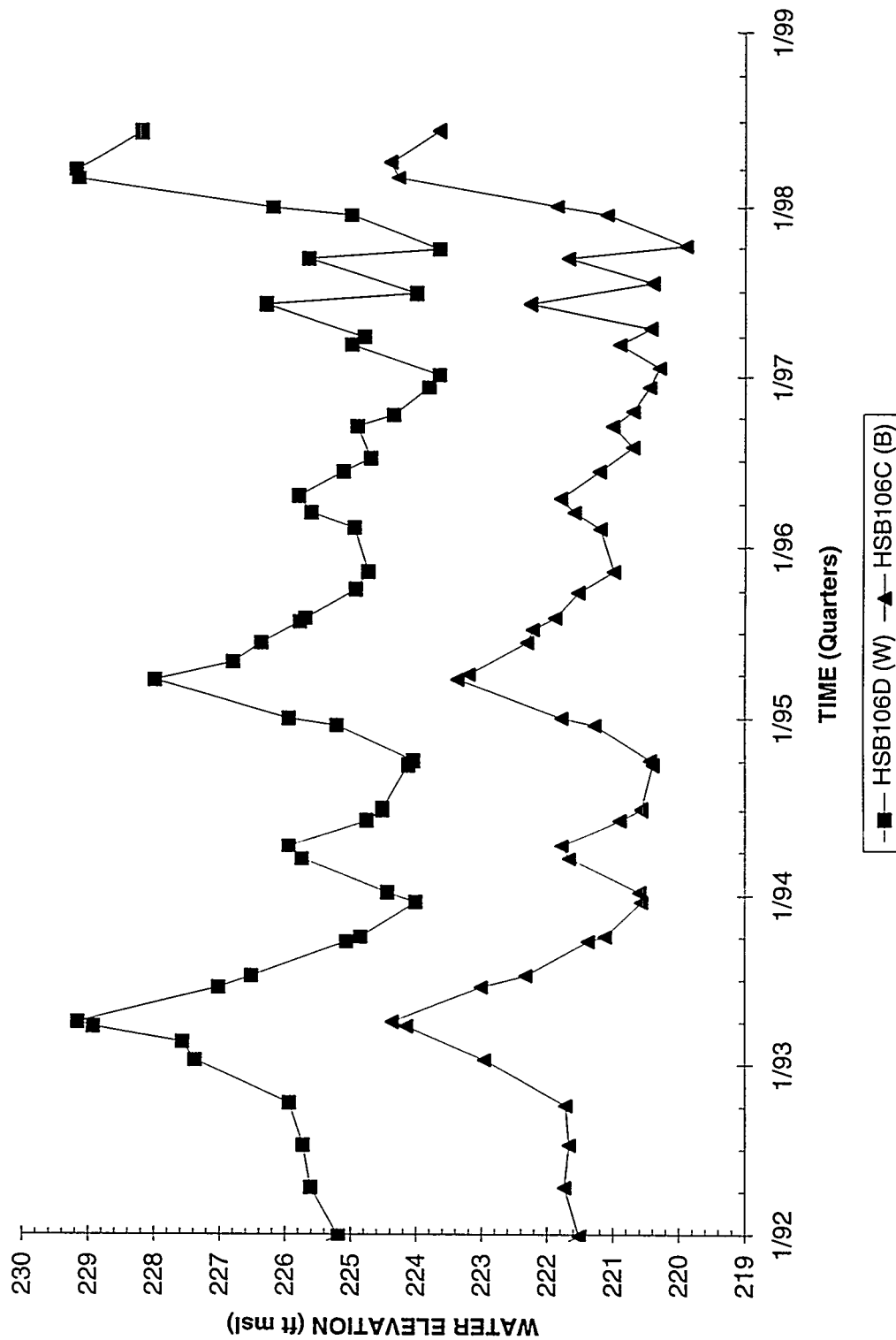
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB105



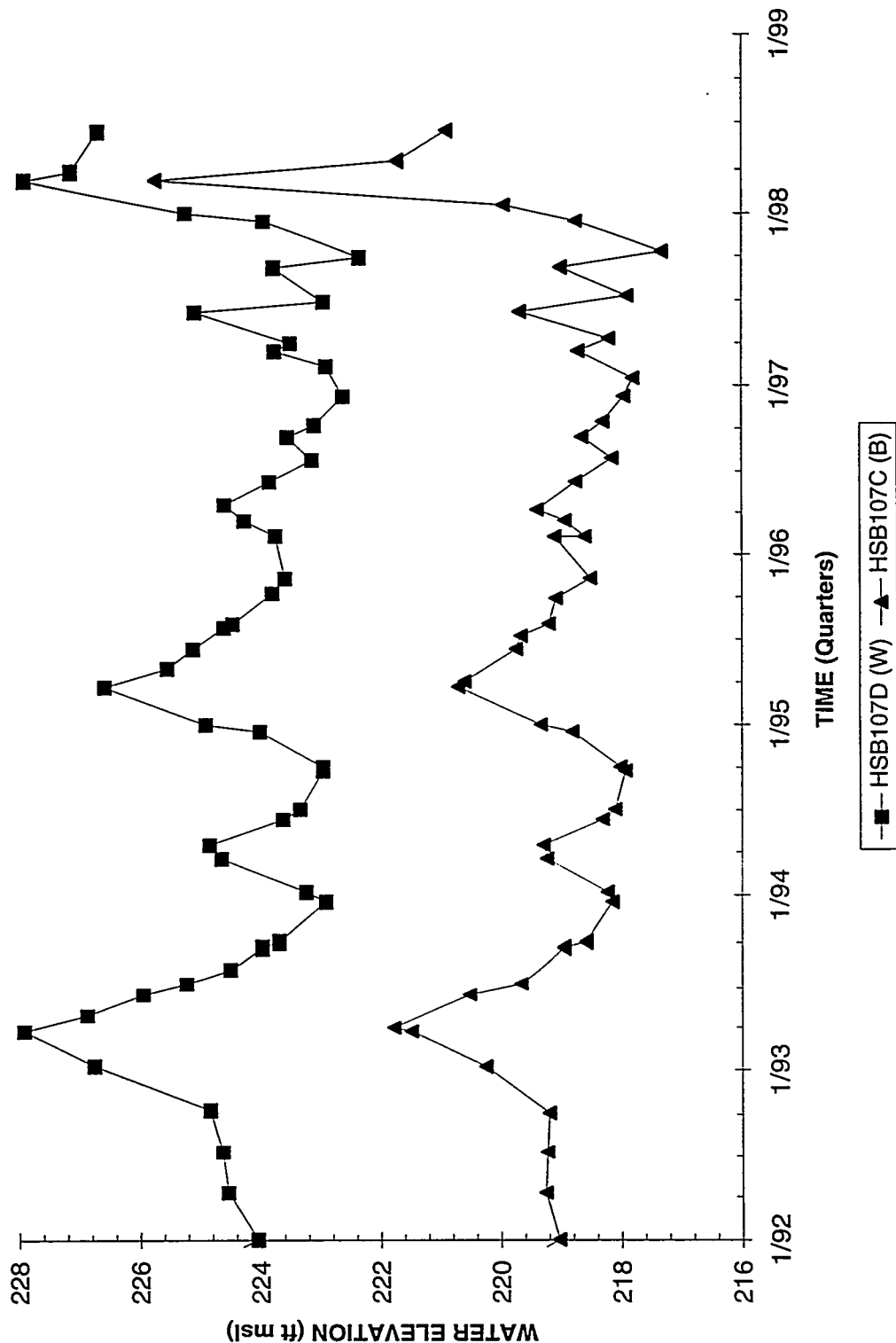
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB106



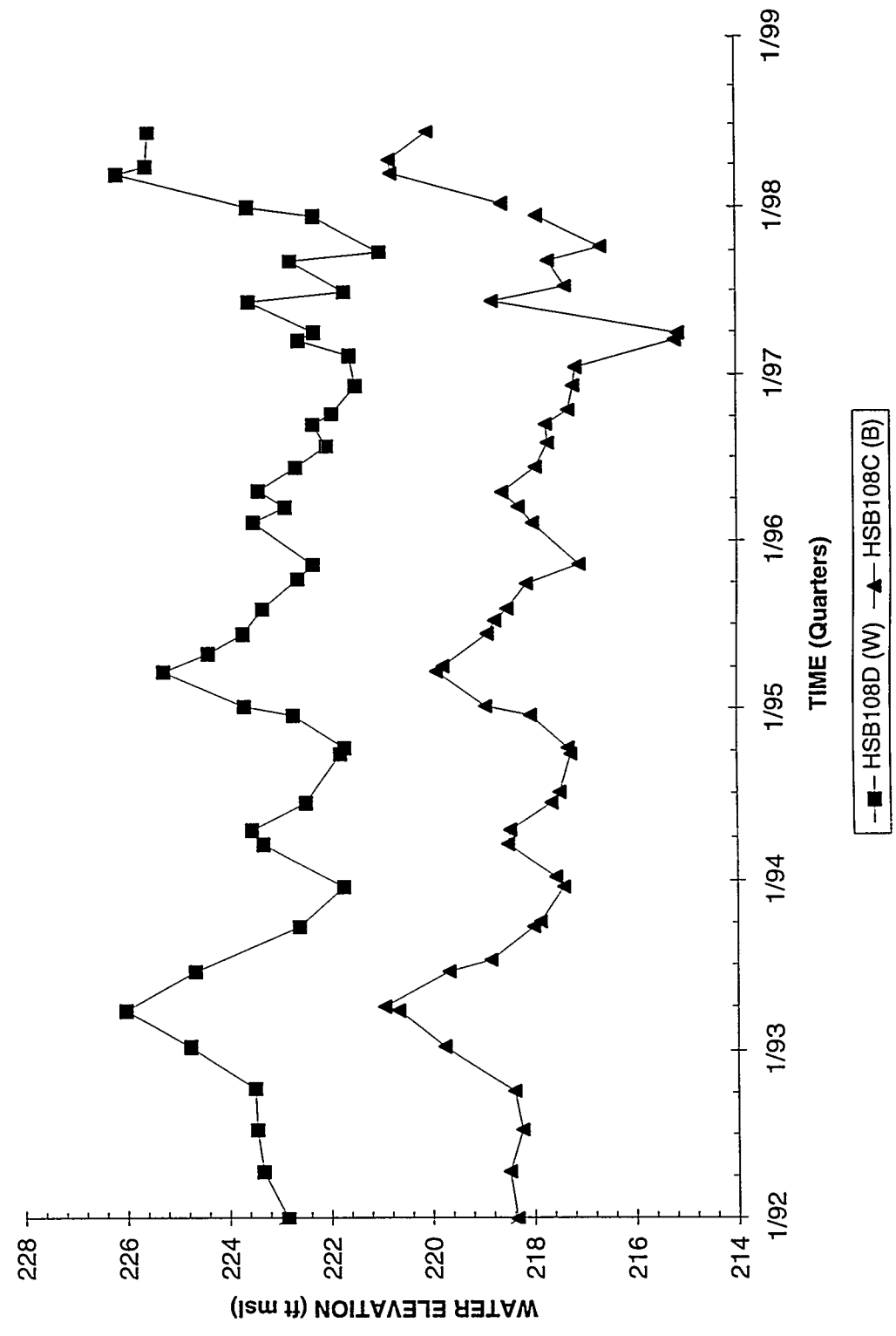
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB107



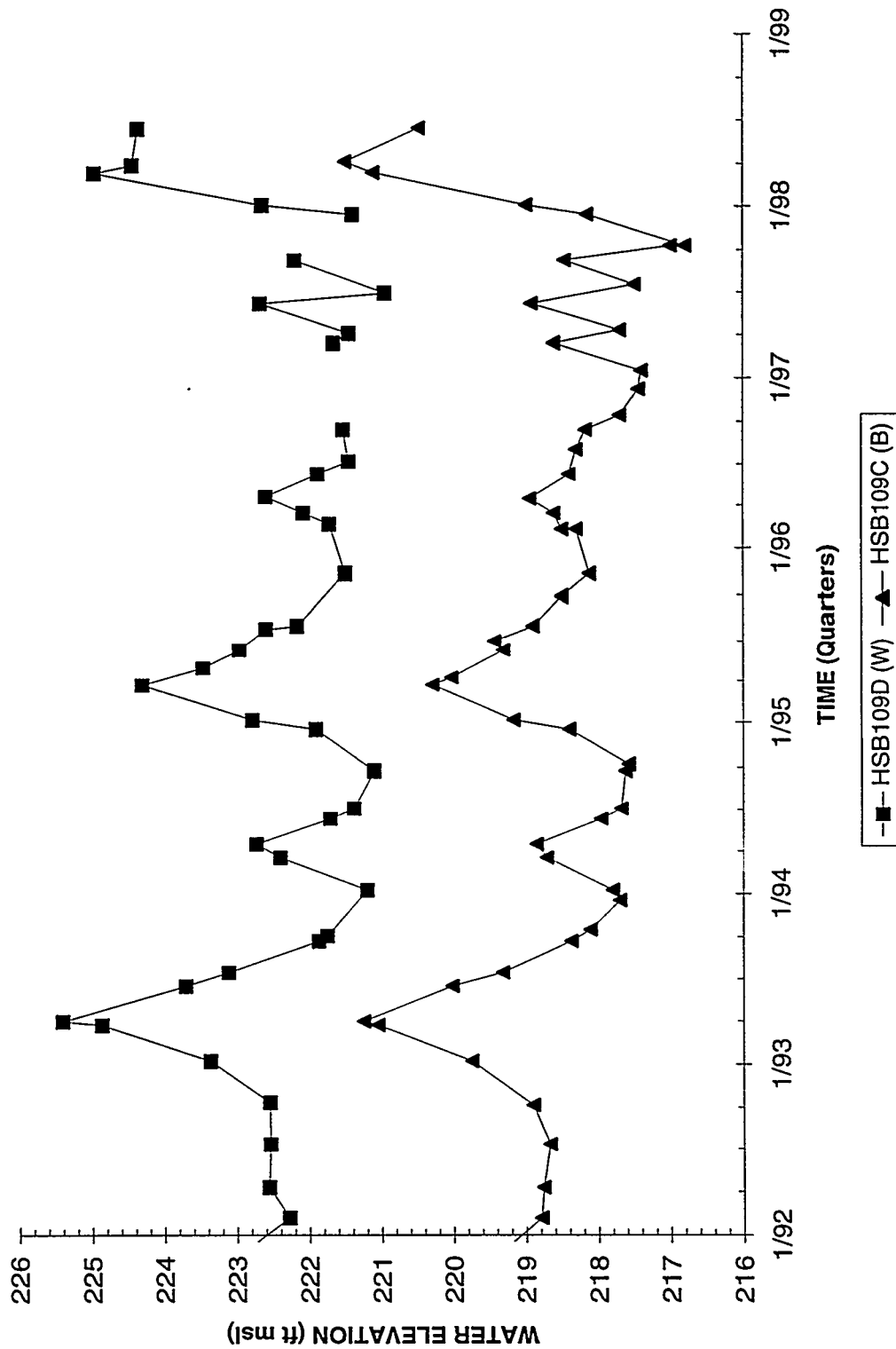
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB108



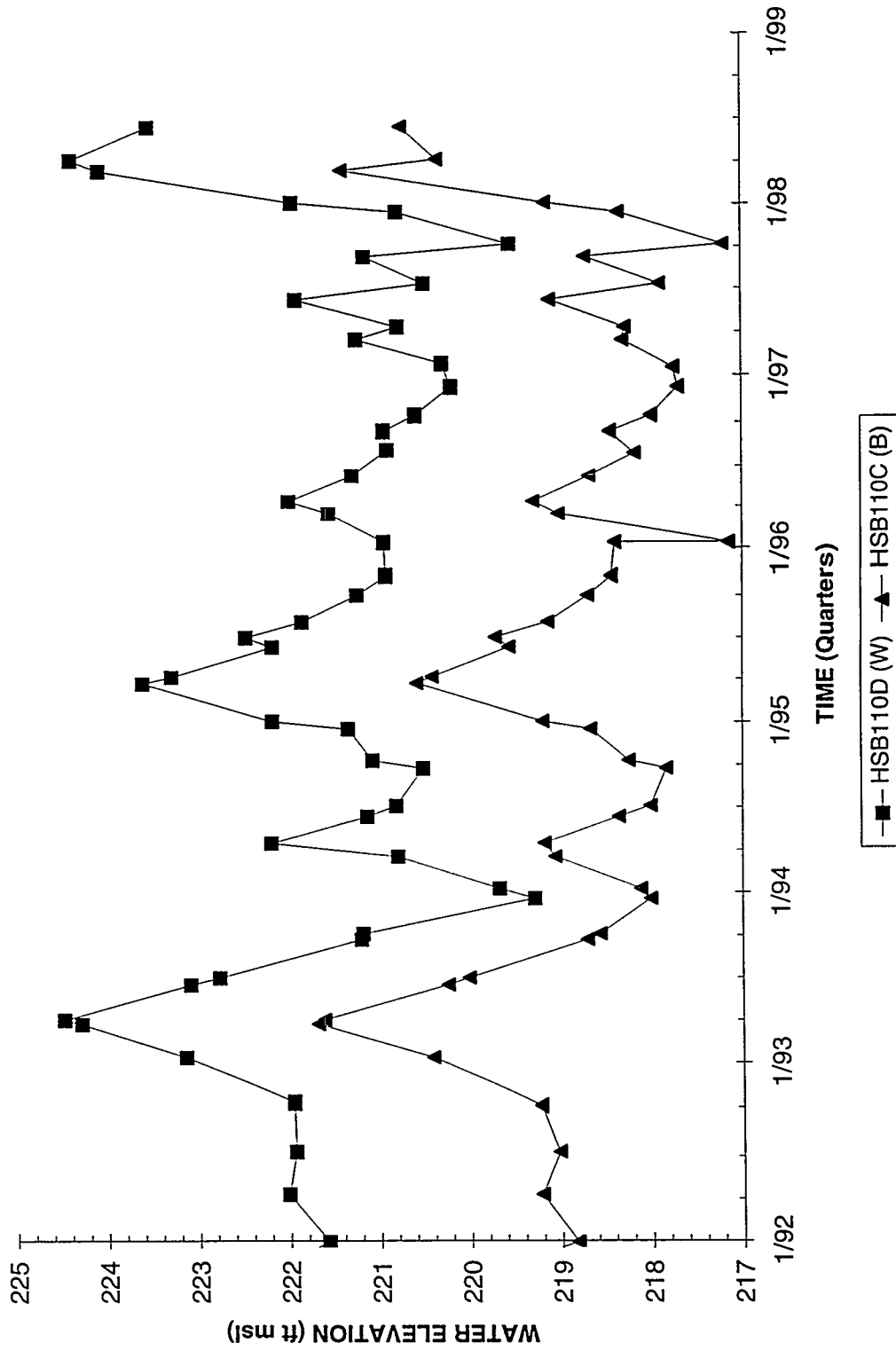
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB109



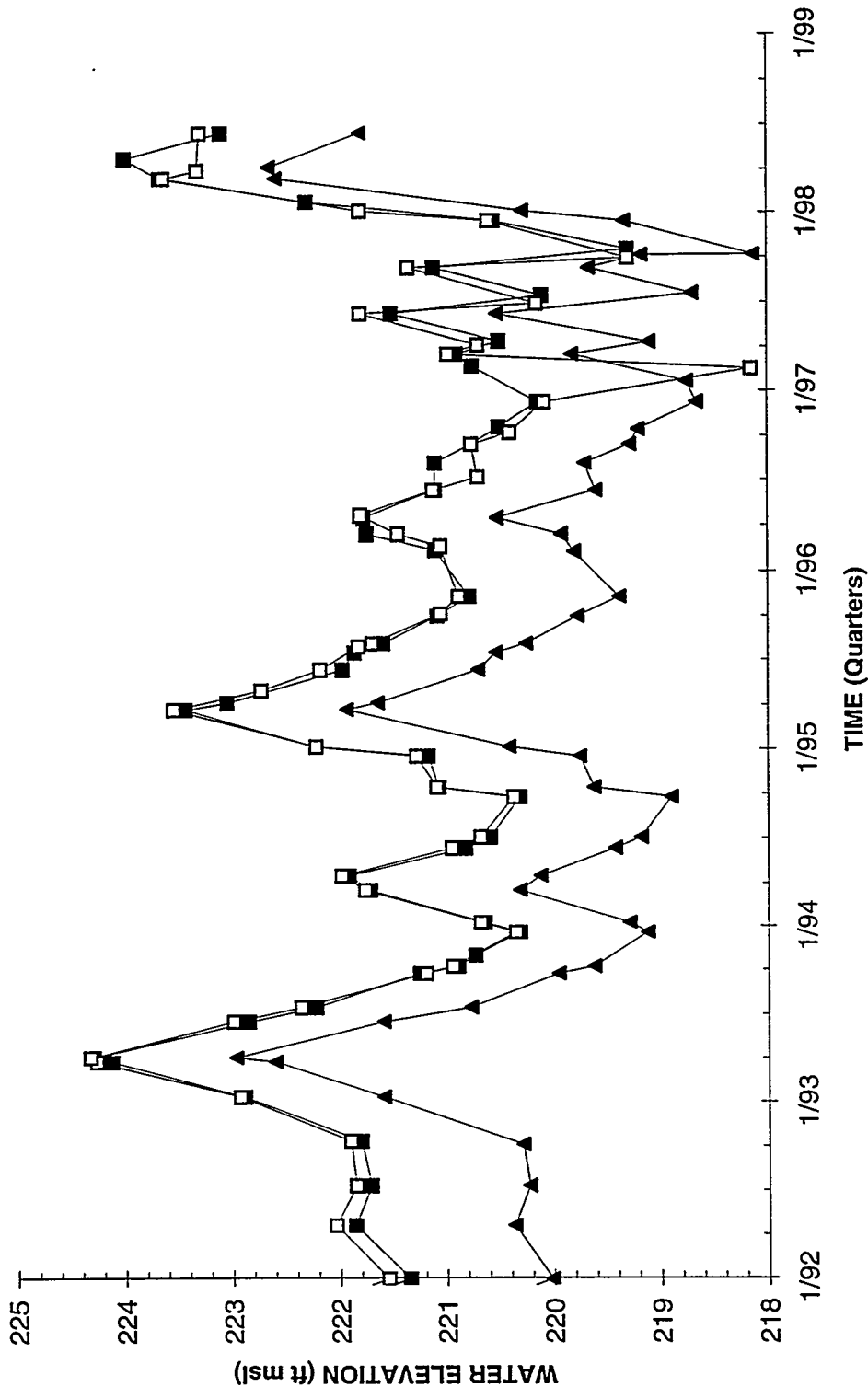
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB110



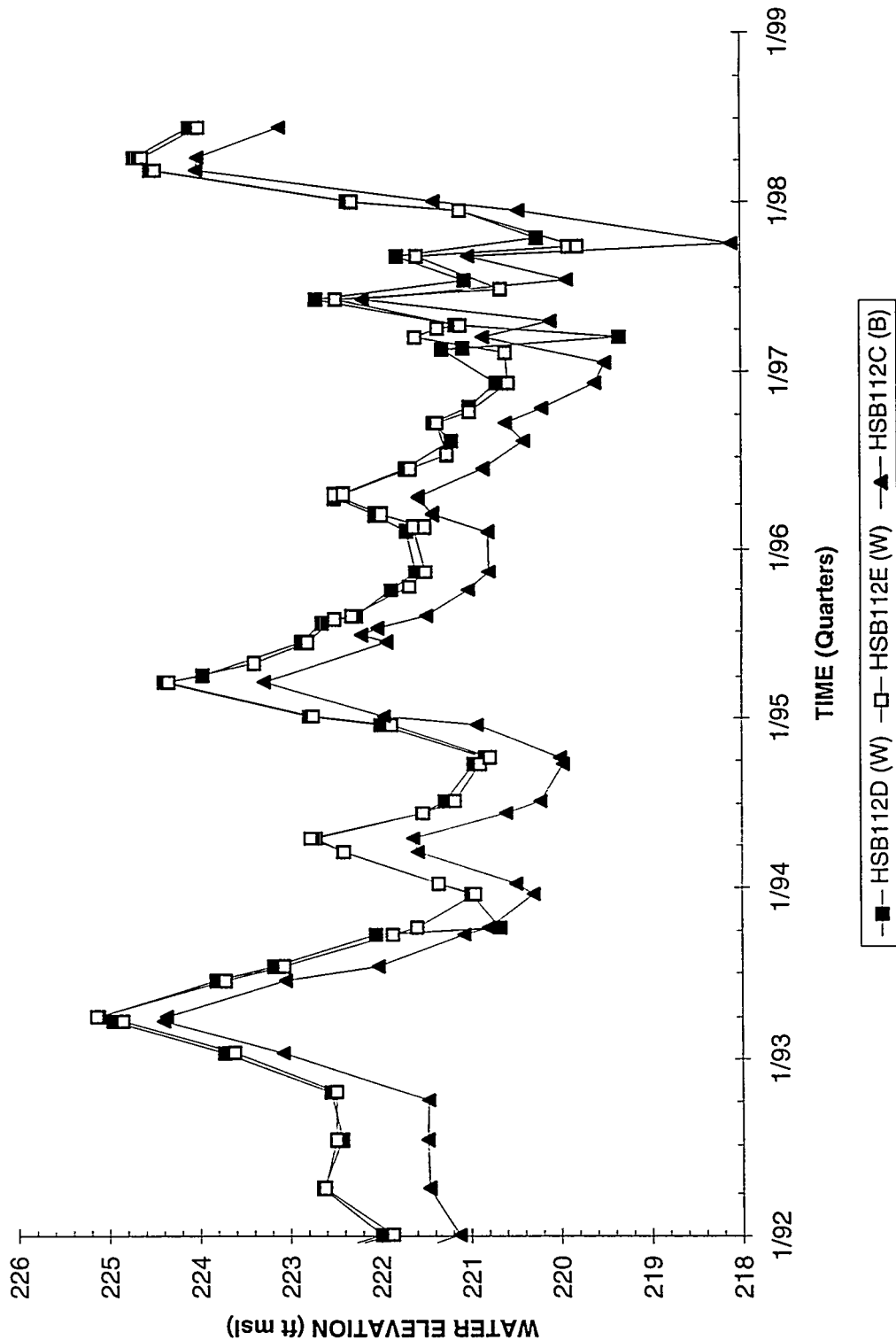
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB111



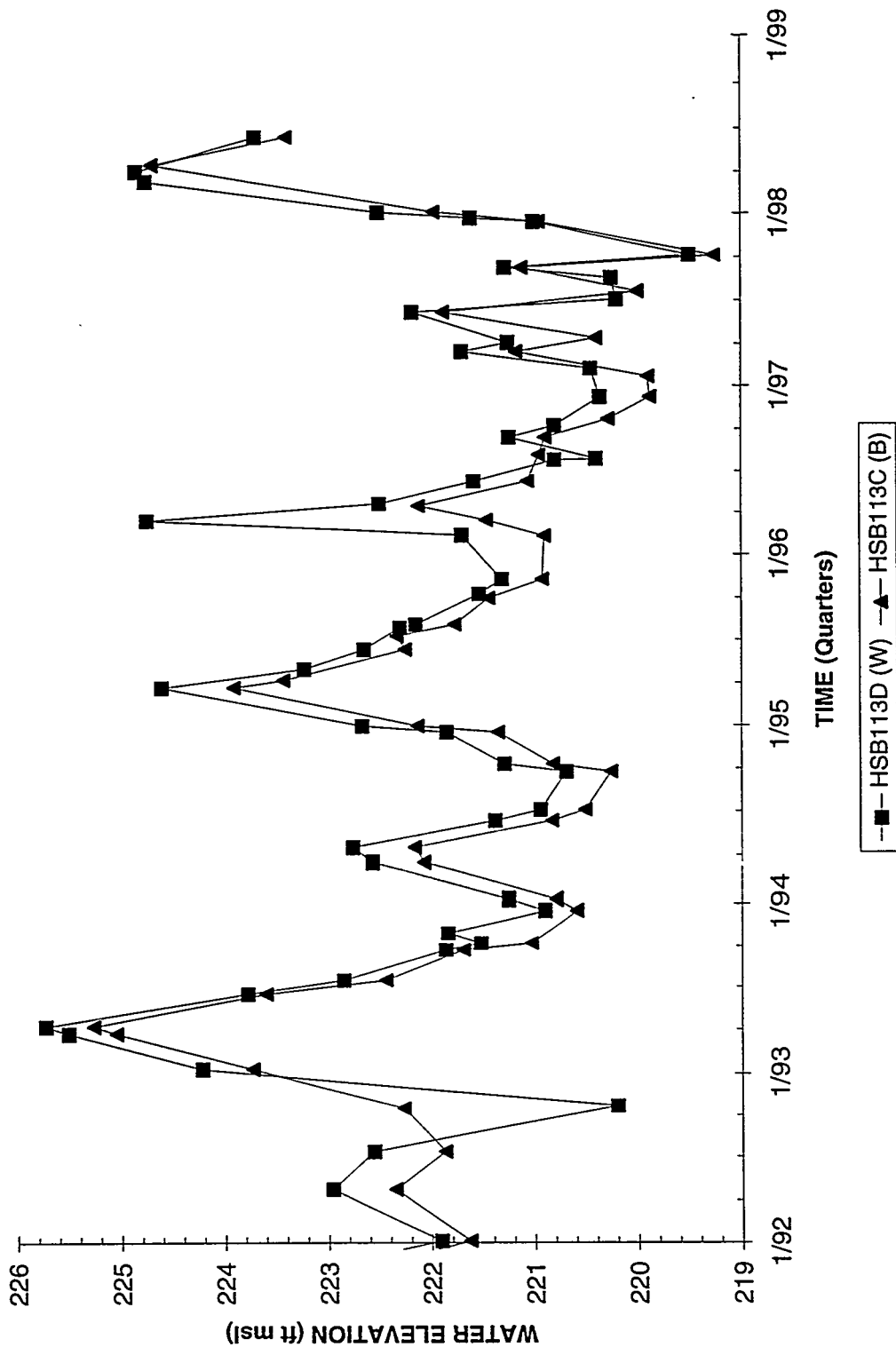
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB112



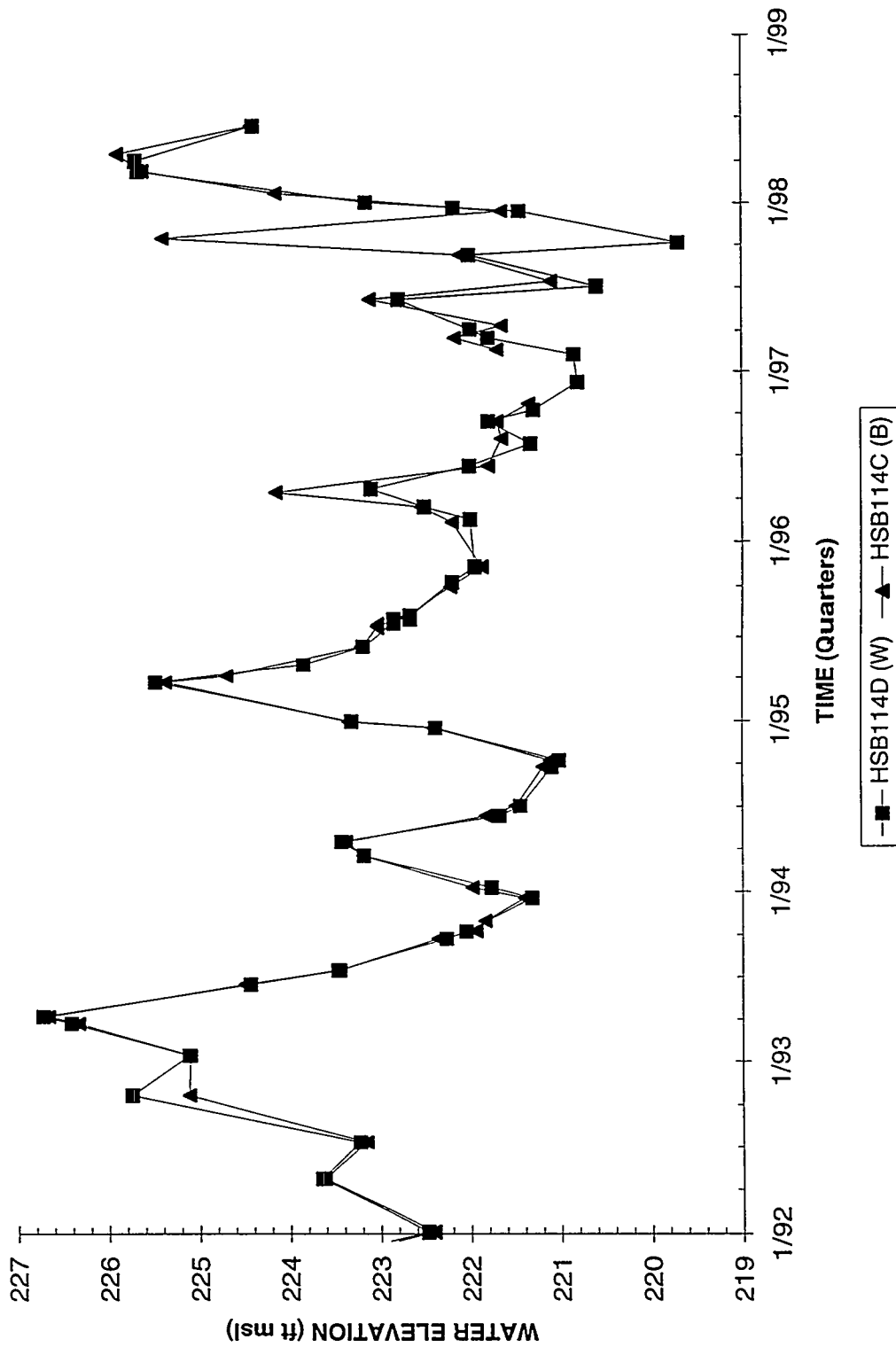
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB113



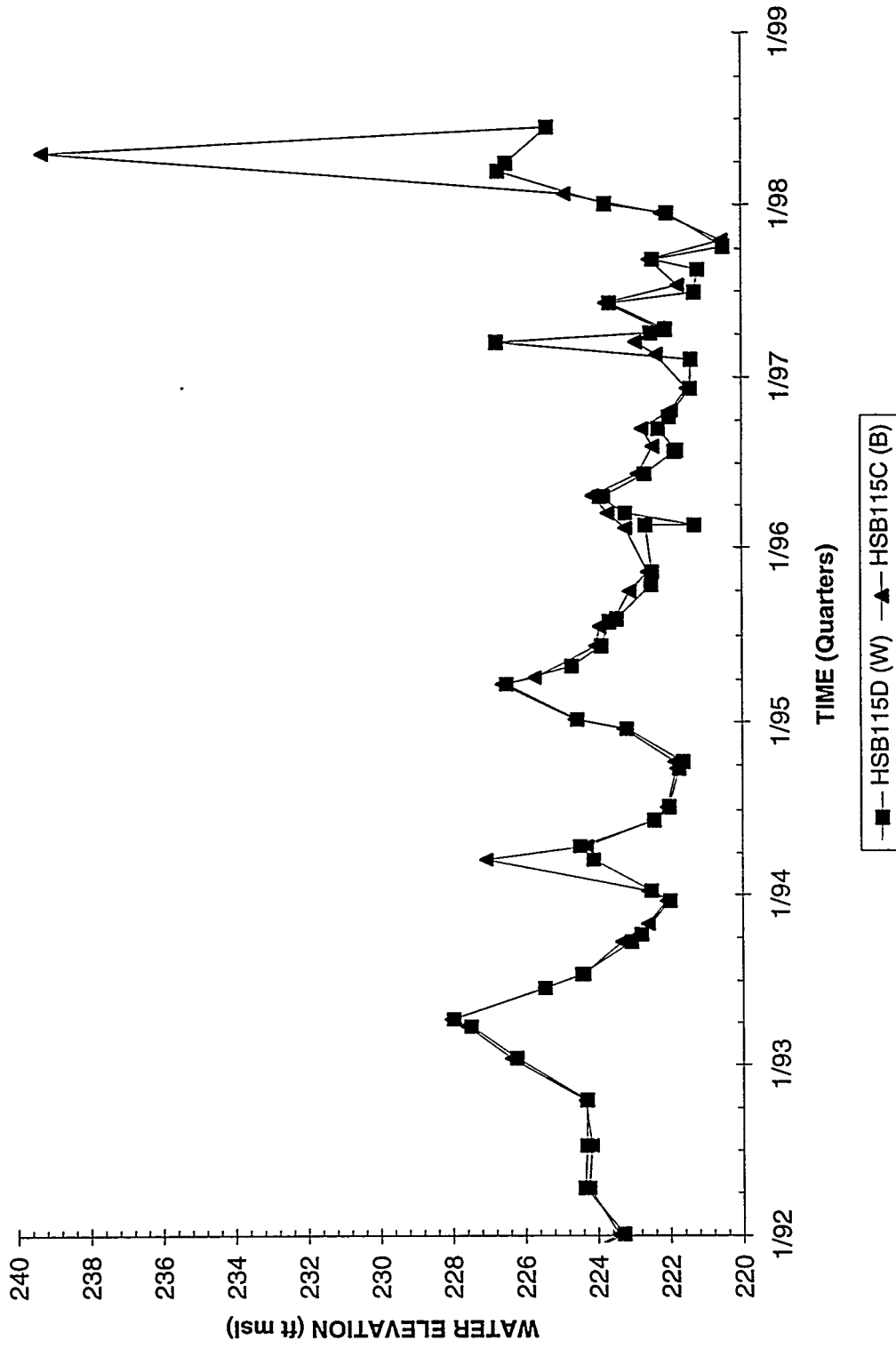
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB114



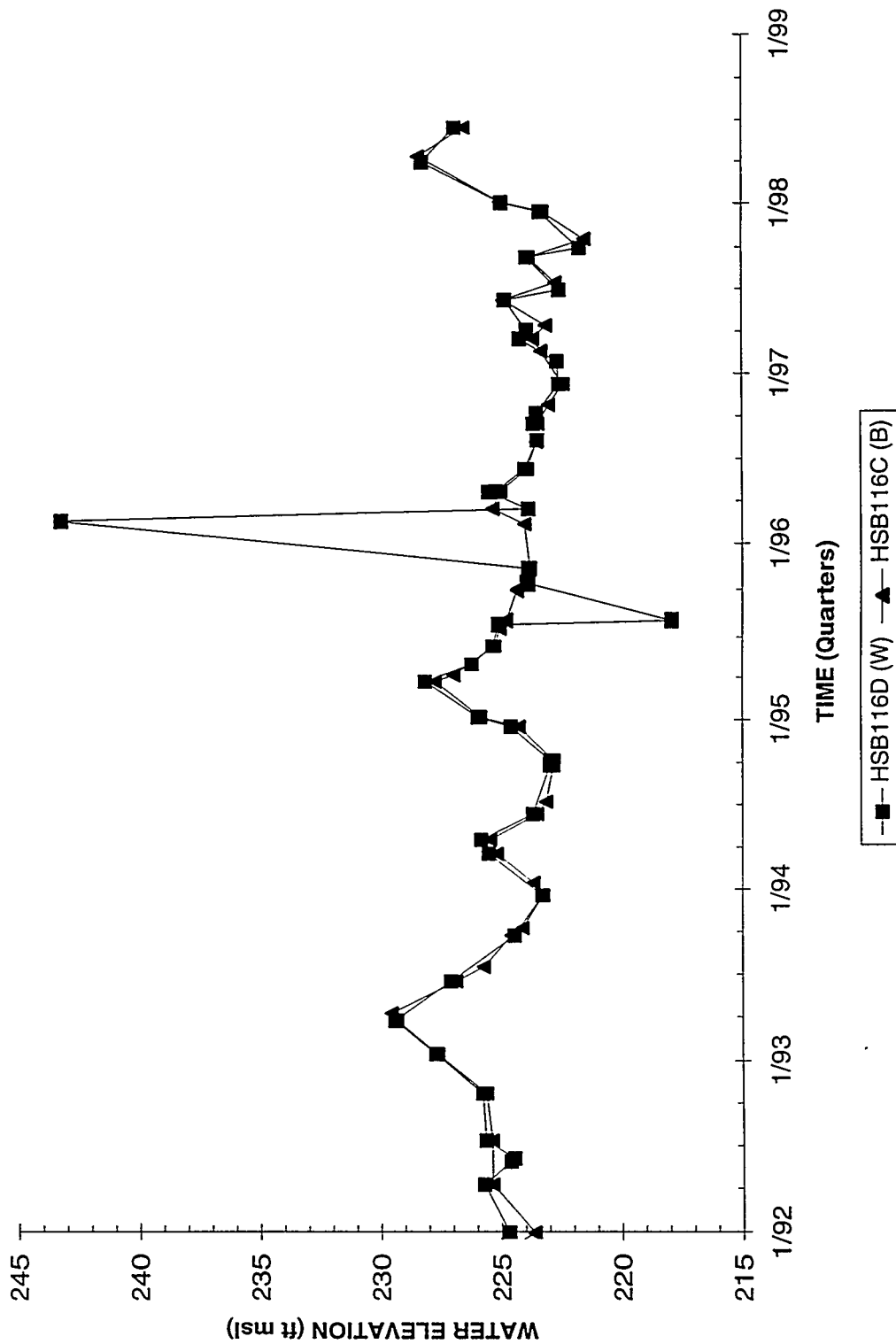
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB115



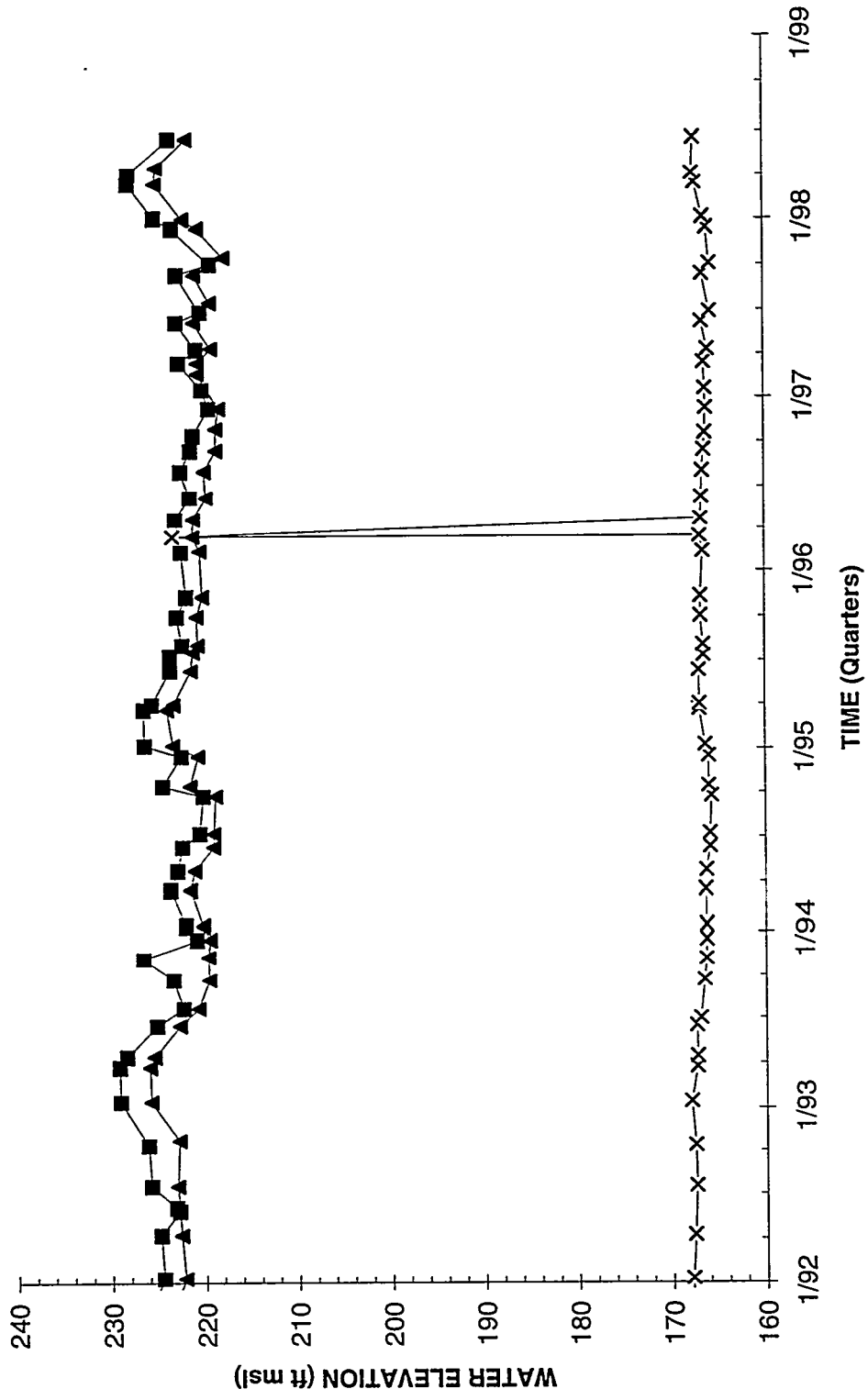
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB116



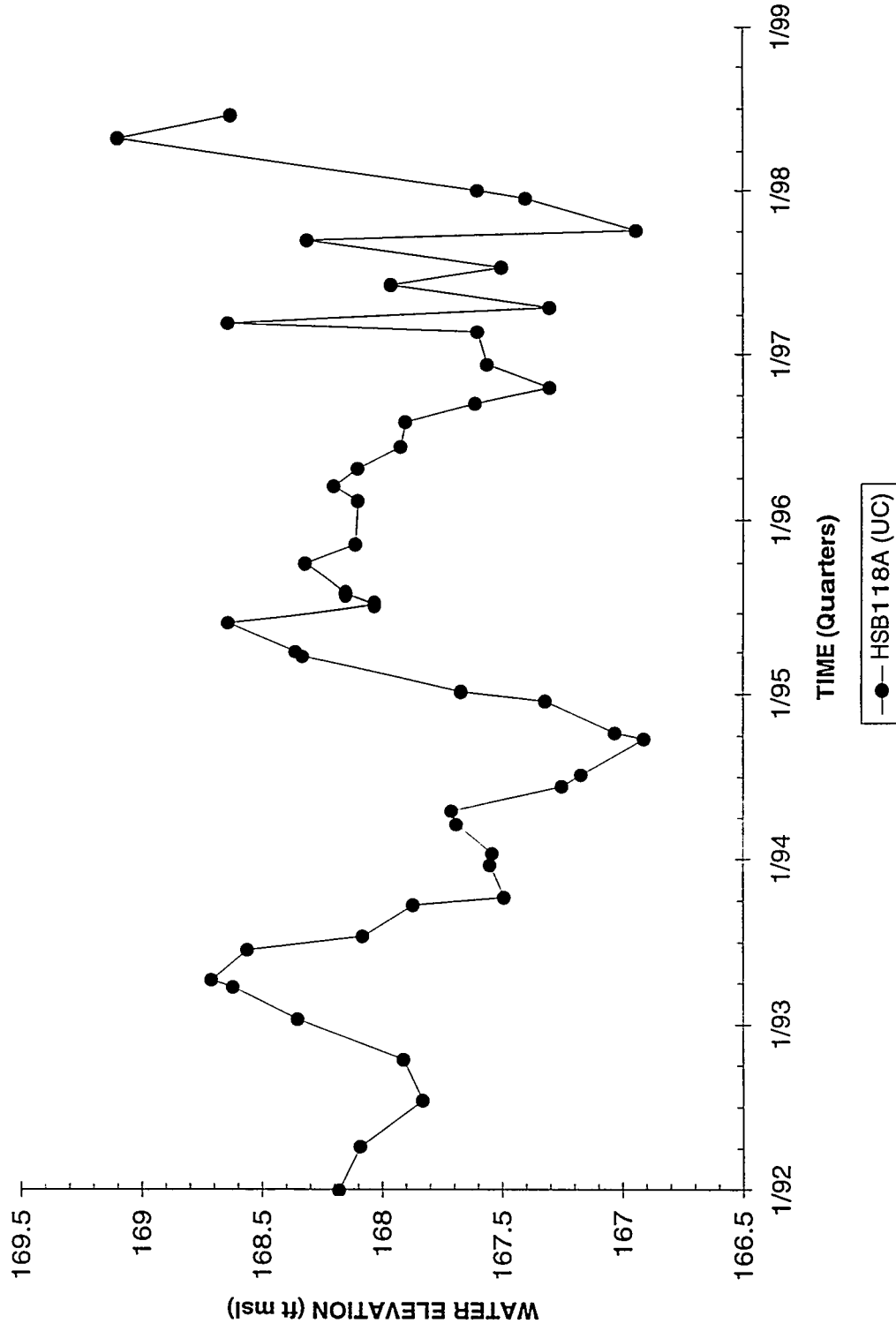
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB117



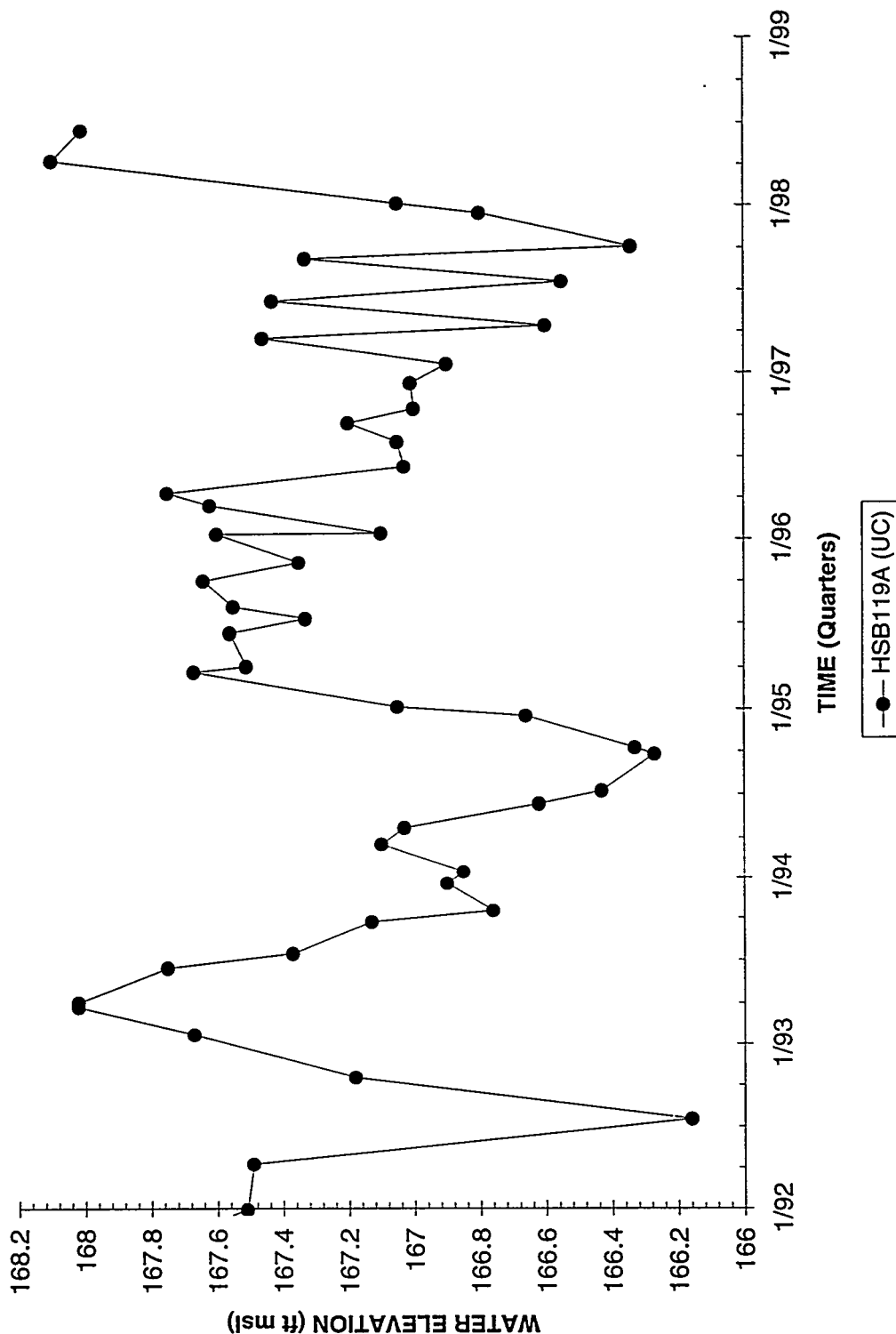
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB118A



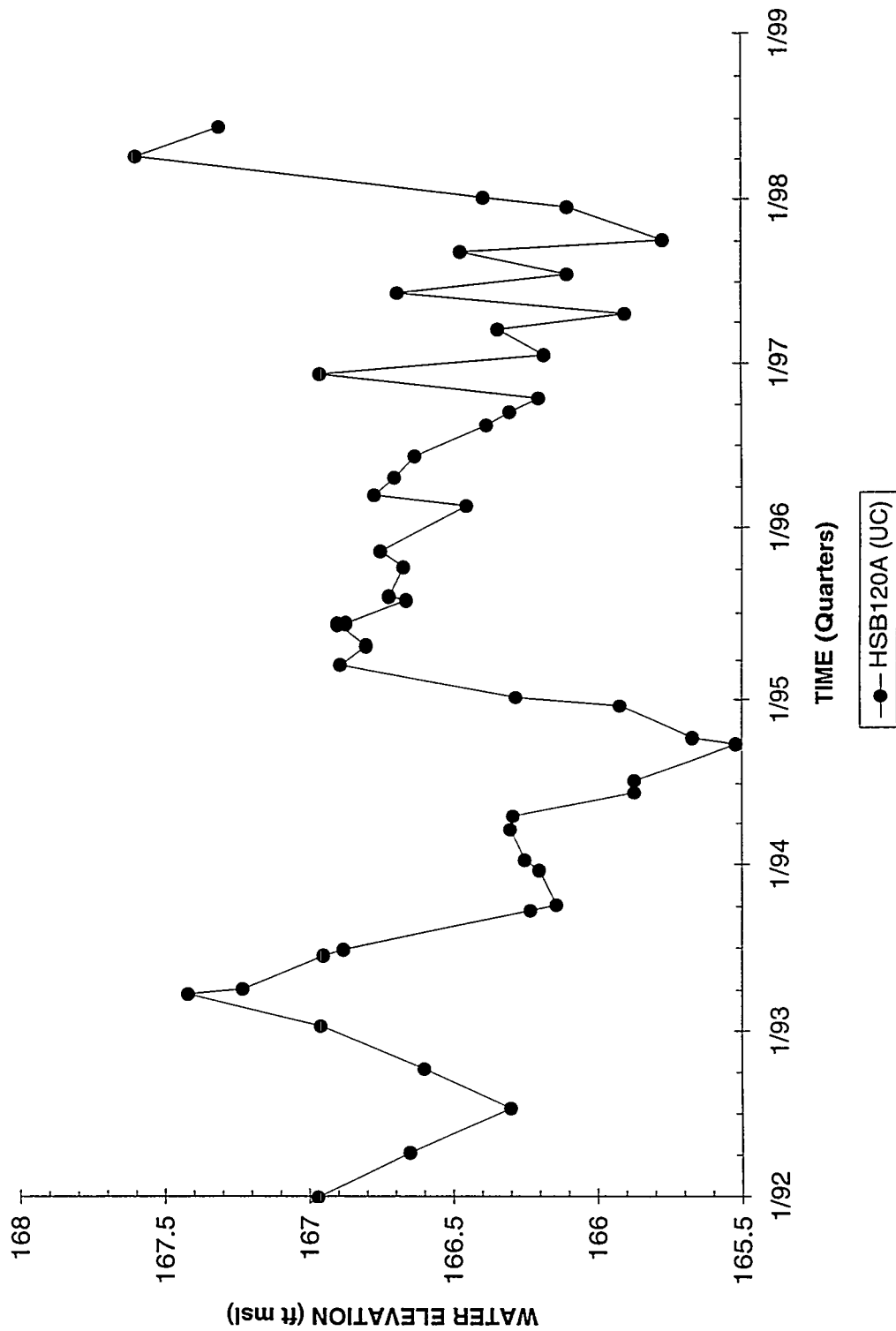
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB119A



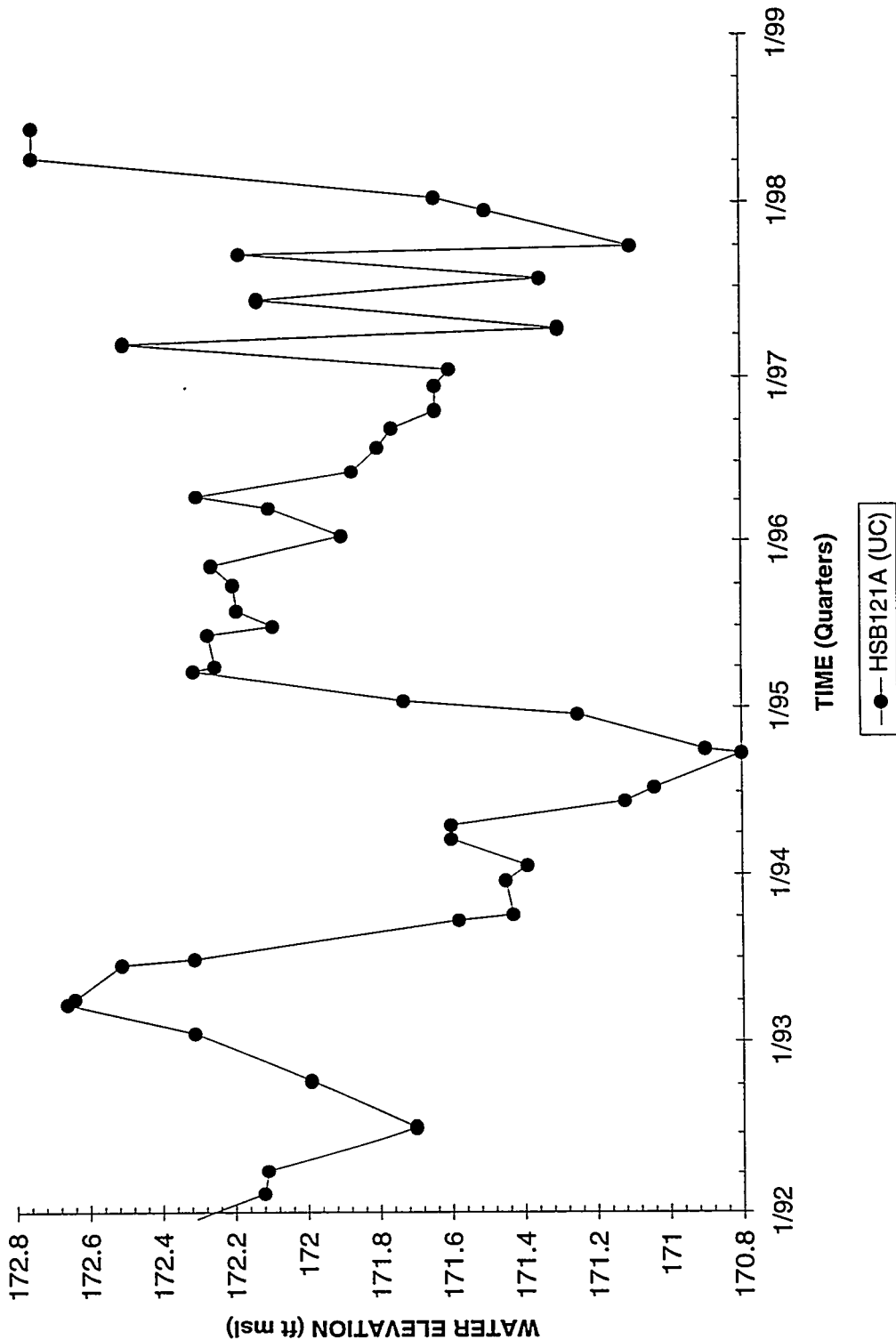
Note: W=Water Table (IB2); B=Bamwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB120A



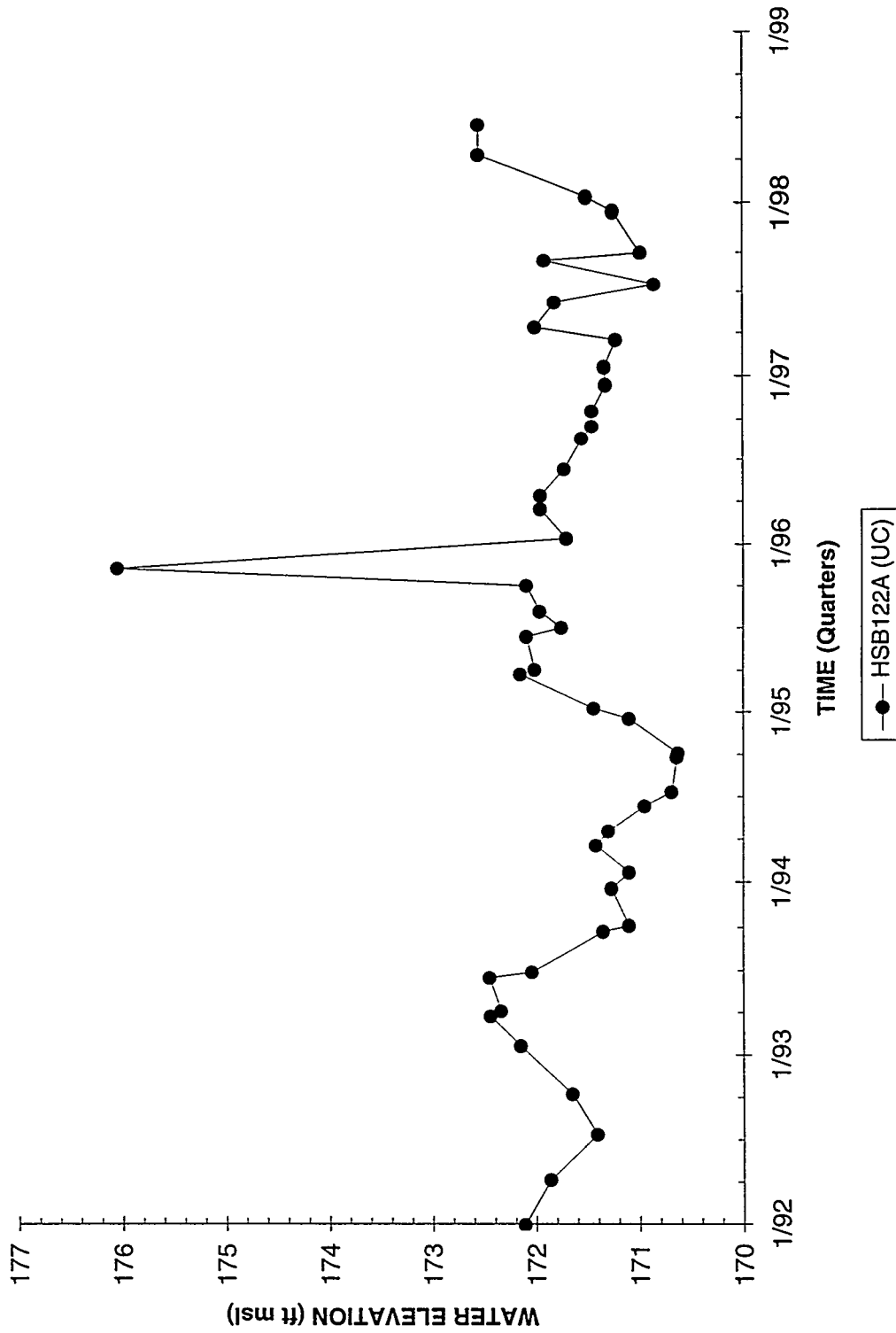
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB121A



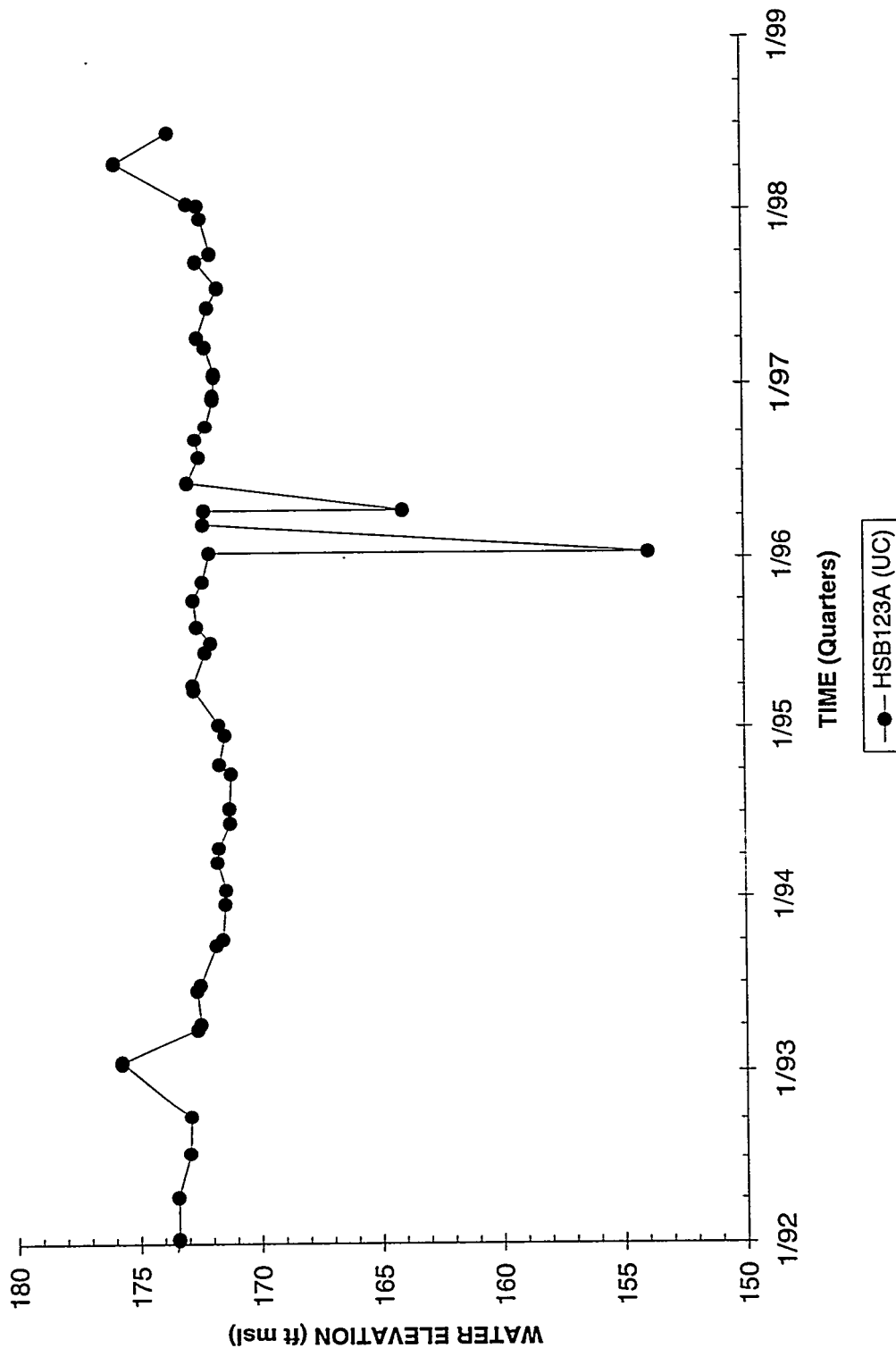
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB122A



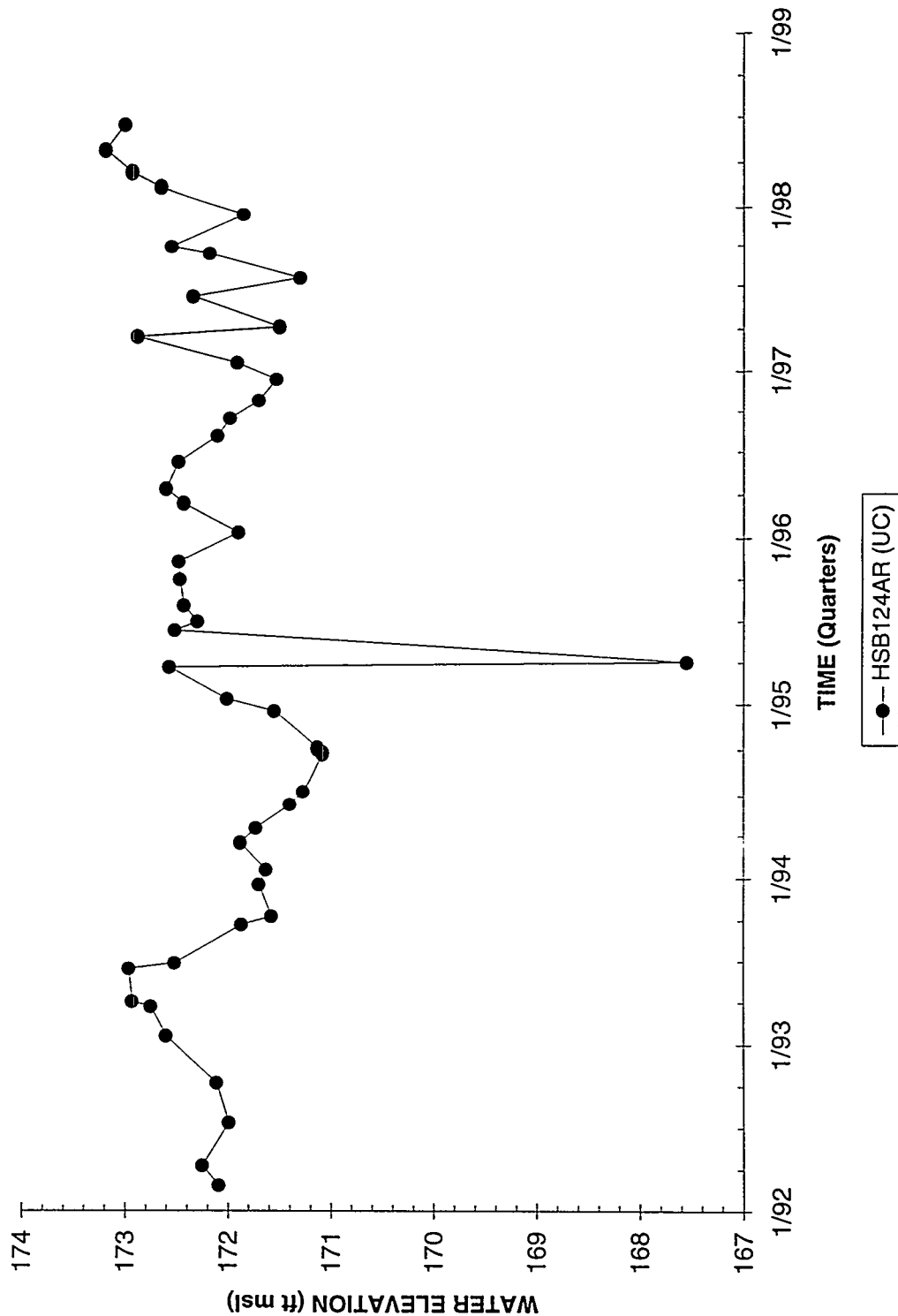
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB123A



Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB124AR



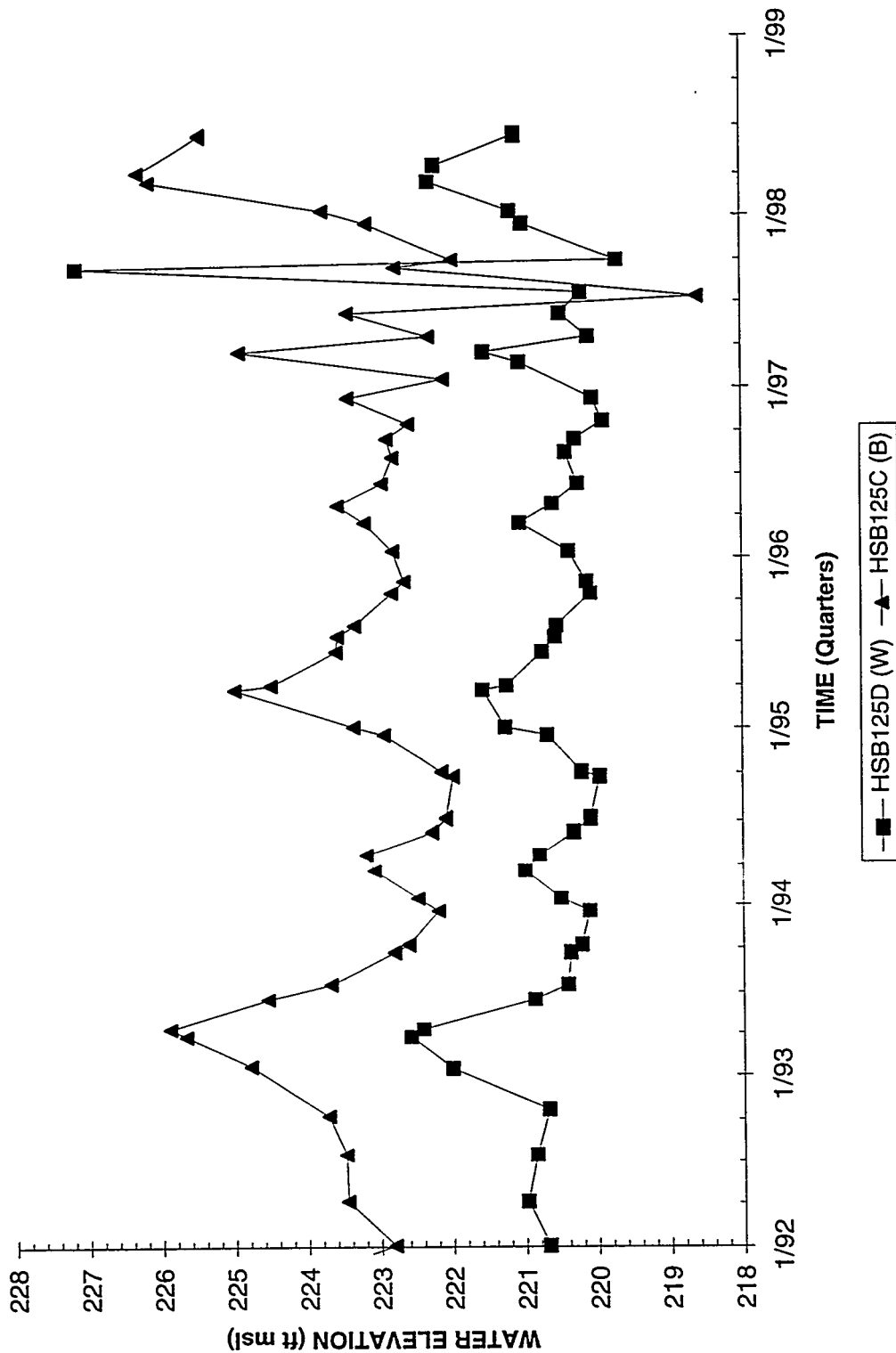
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

H-Ar WMF

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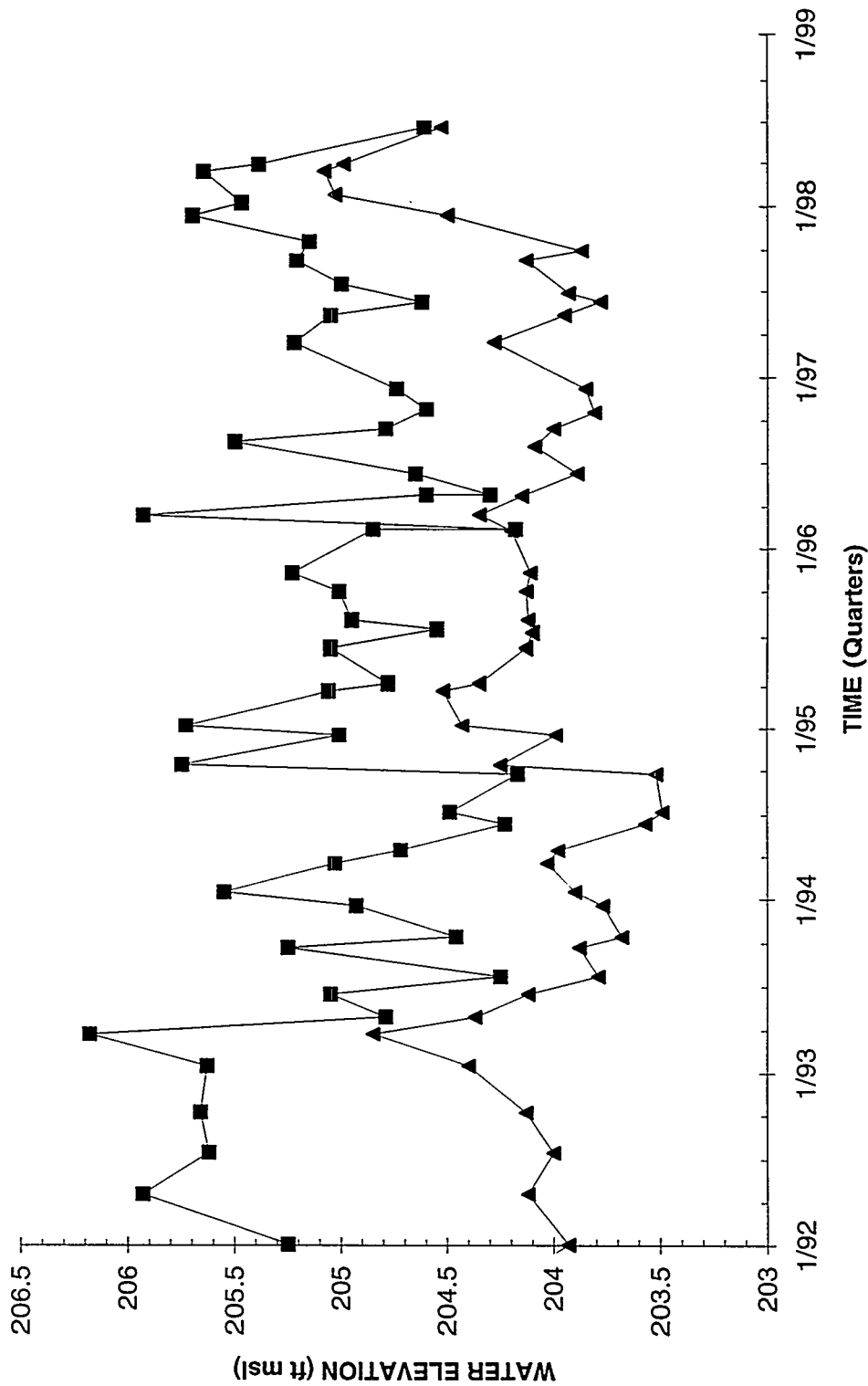
First and Second Qu 1998

Hydrograph Well Cluster HSB125



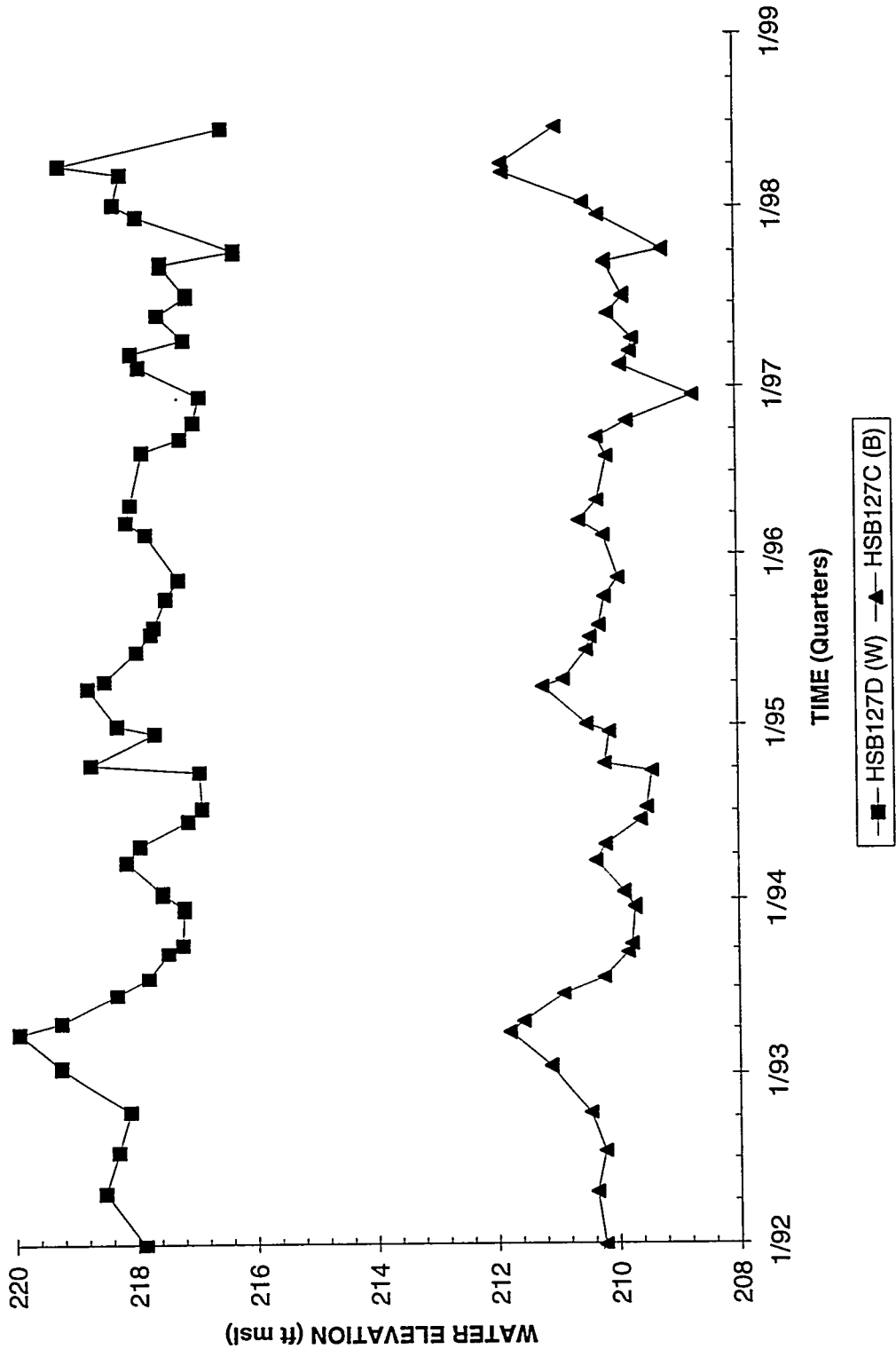
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB126



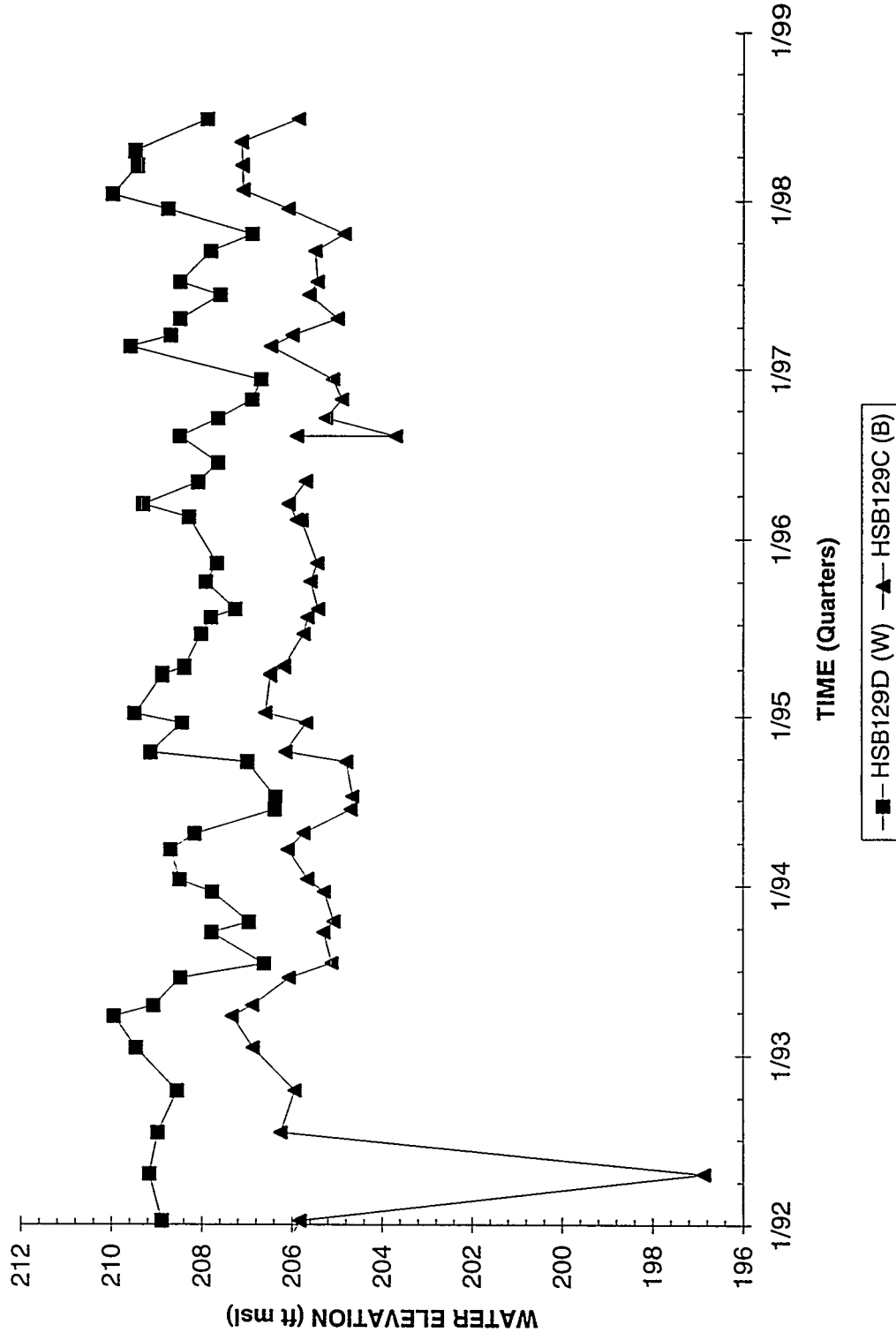
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB127



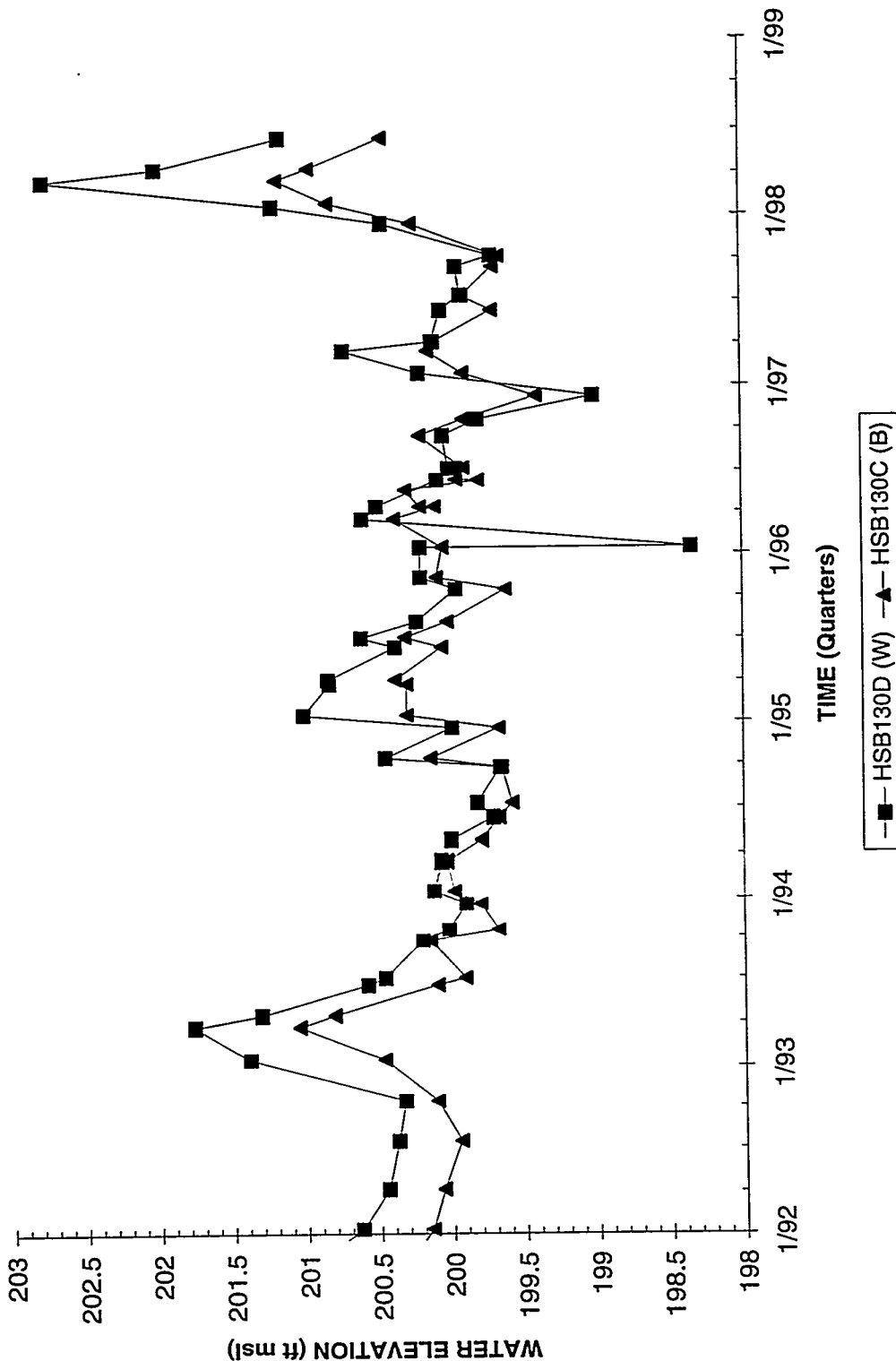
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB129



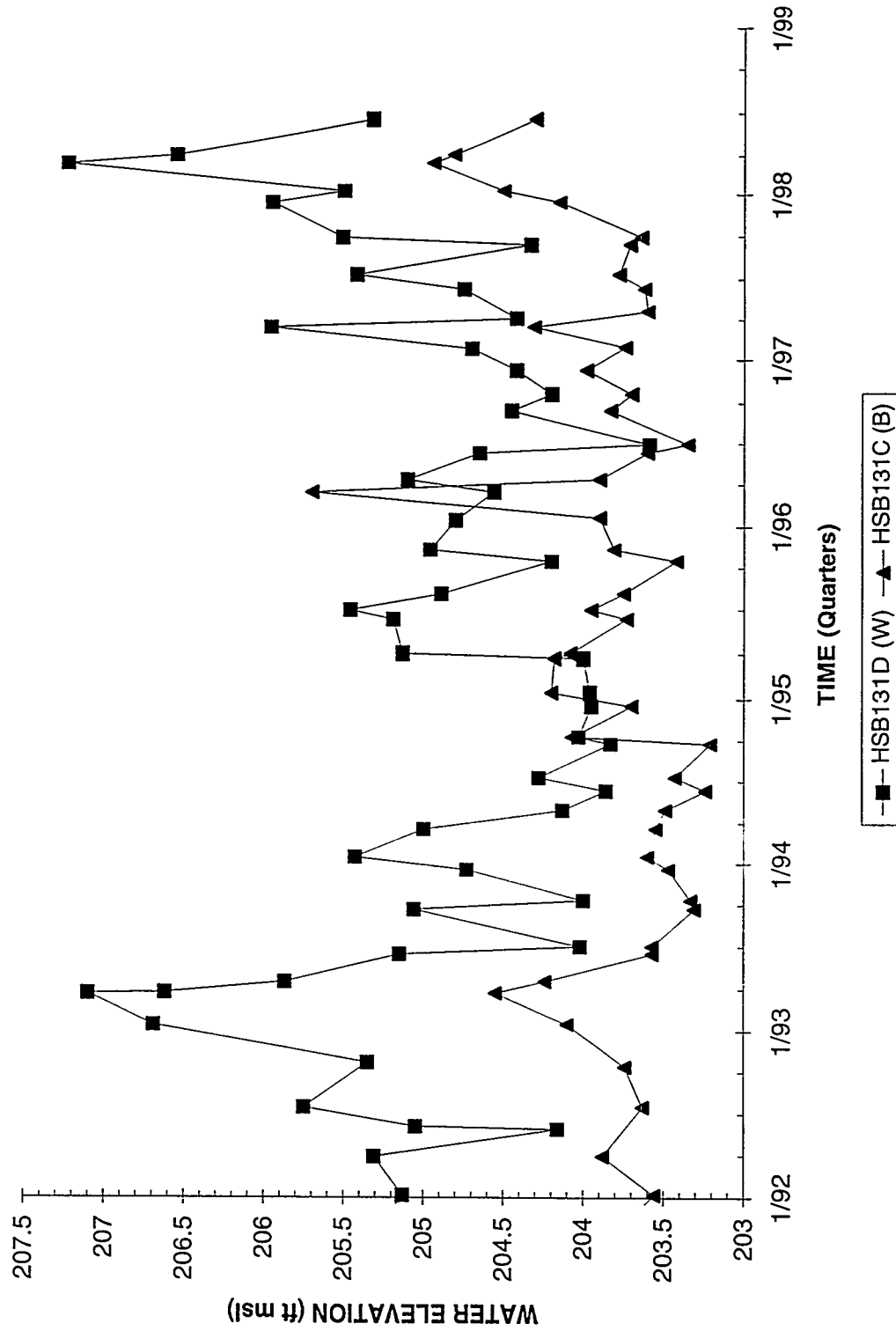
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB130



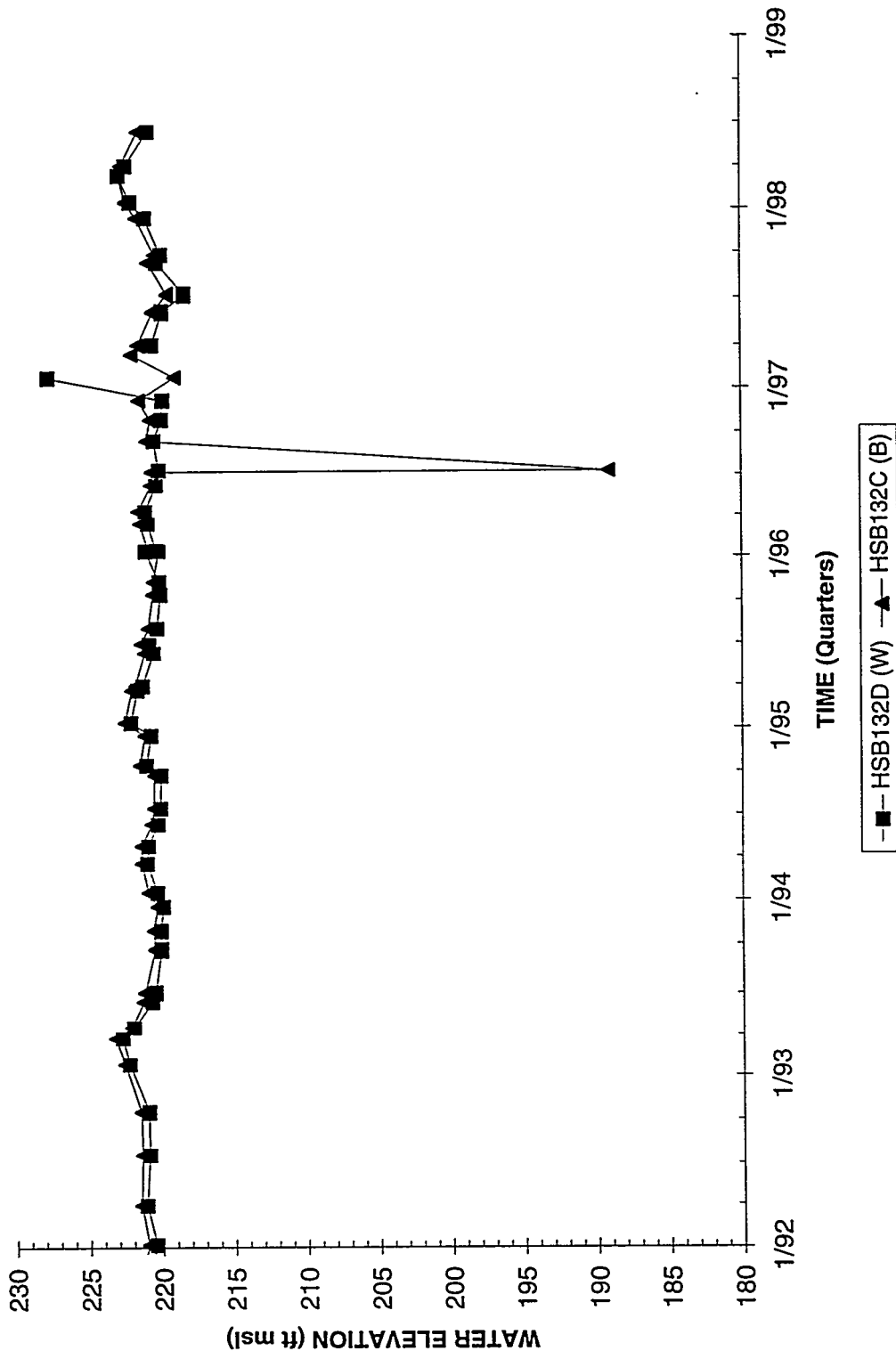
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB131



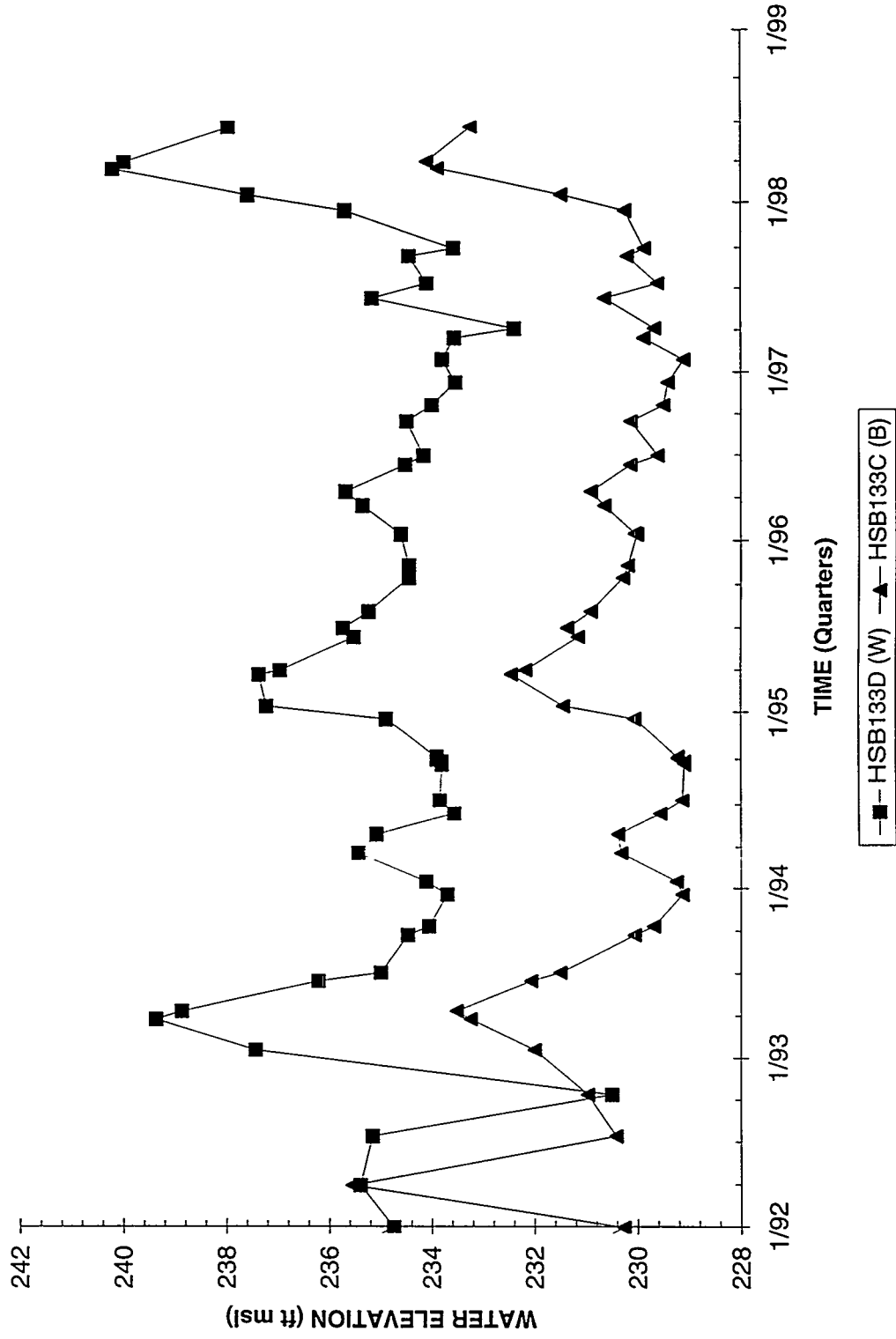
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB132



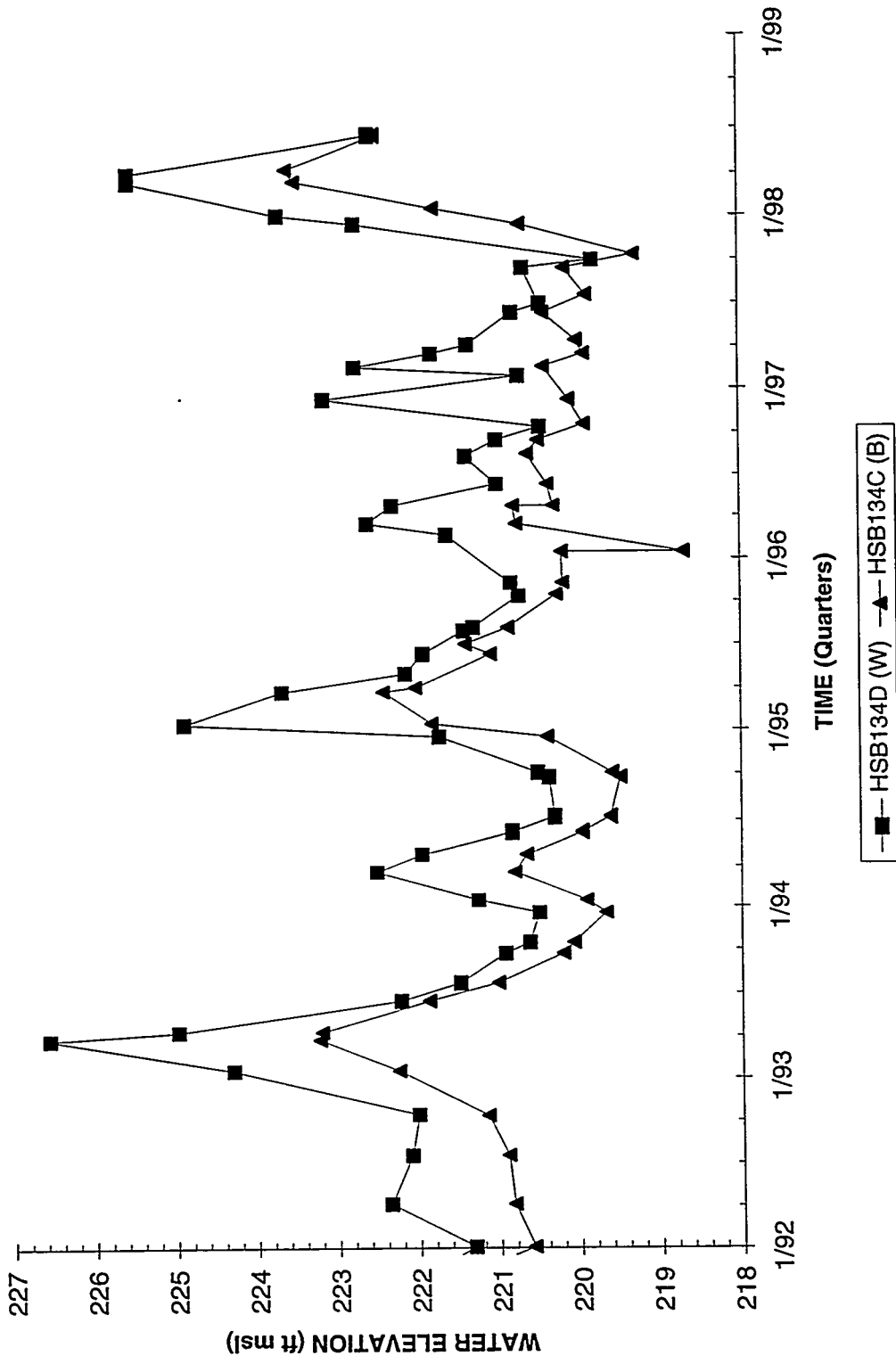
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB133



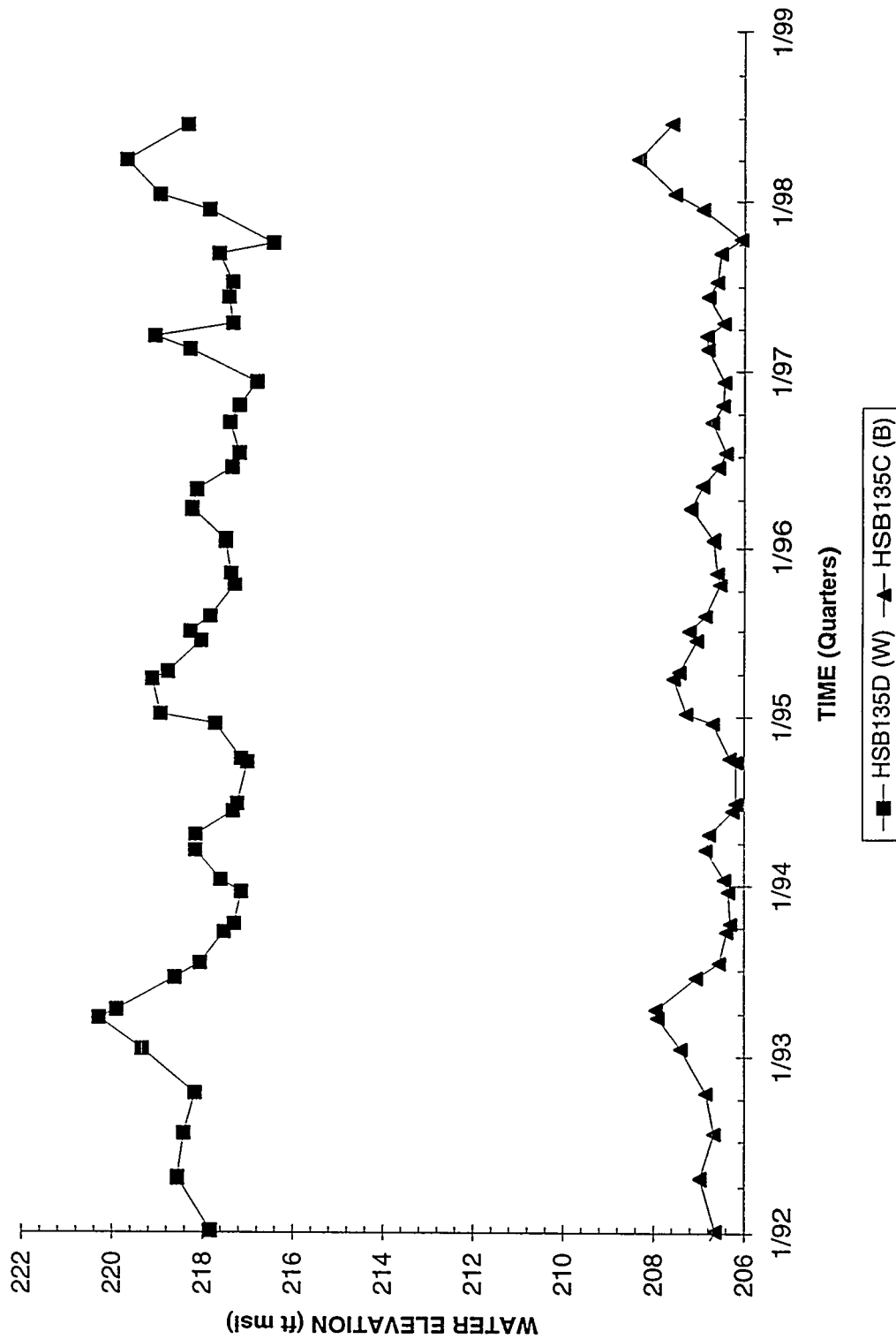
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB134



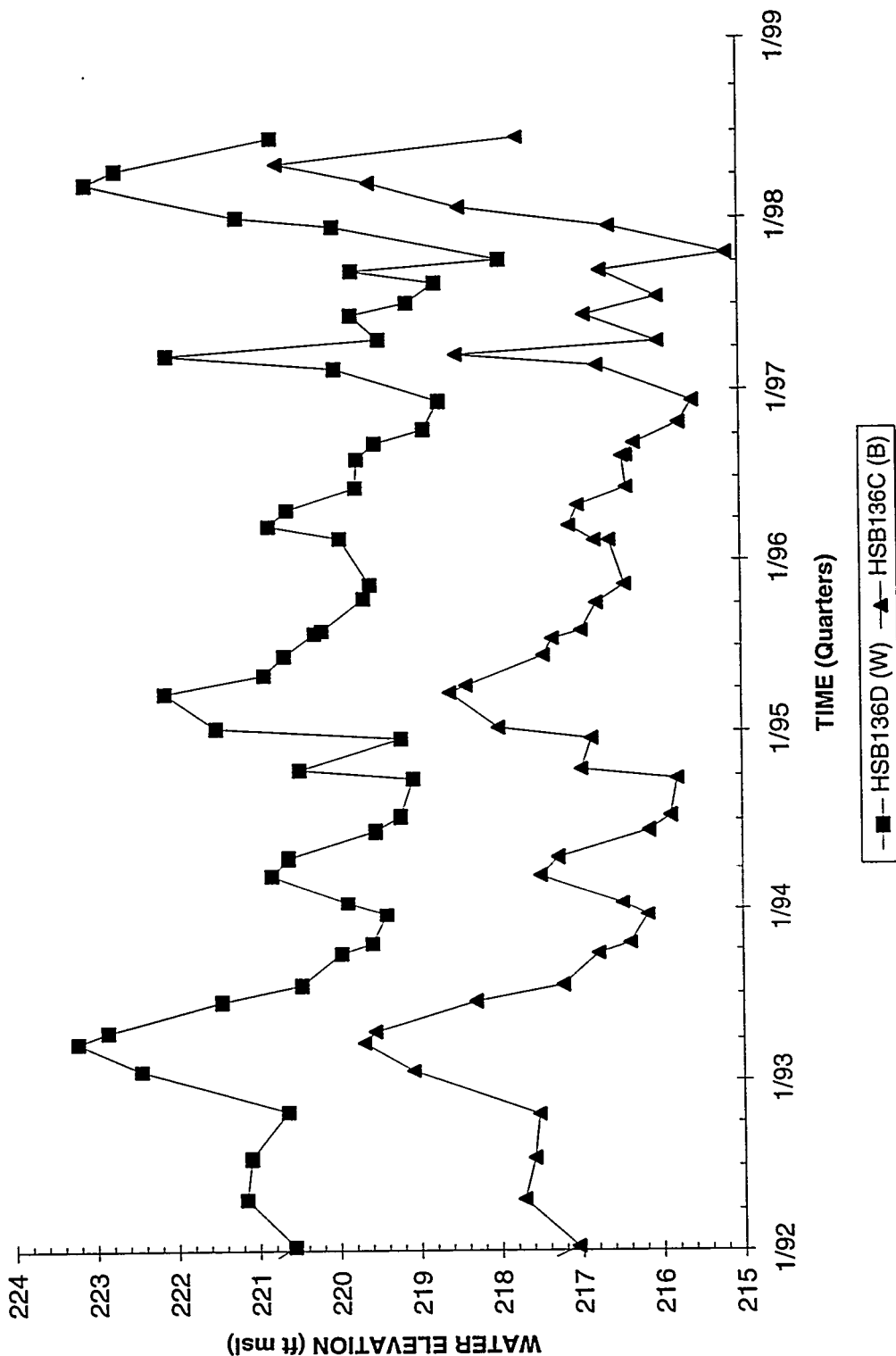
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB135



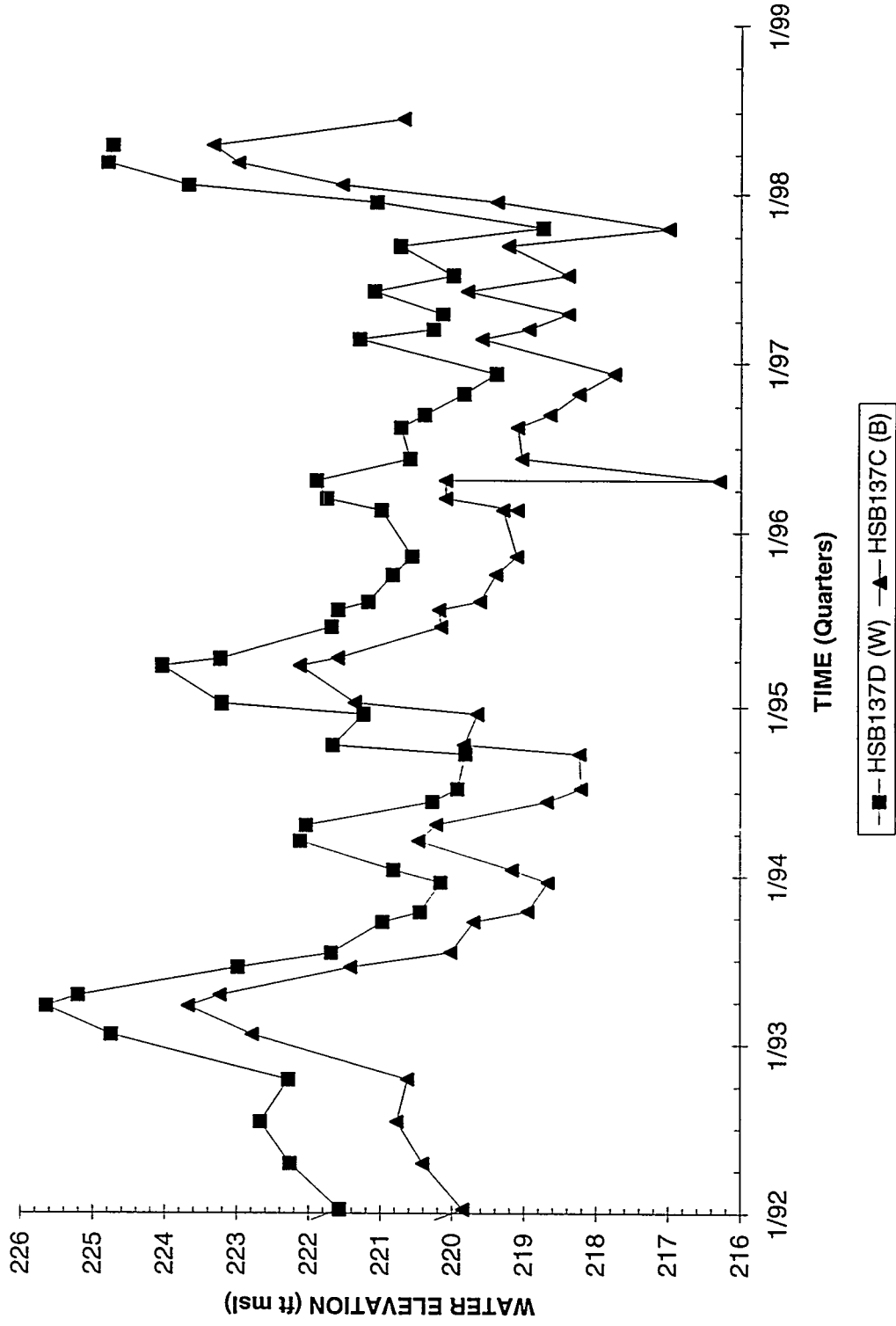
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB136



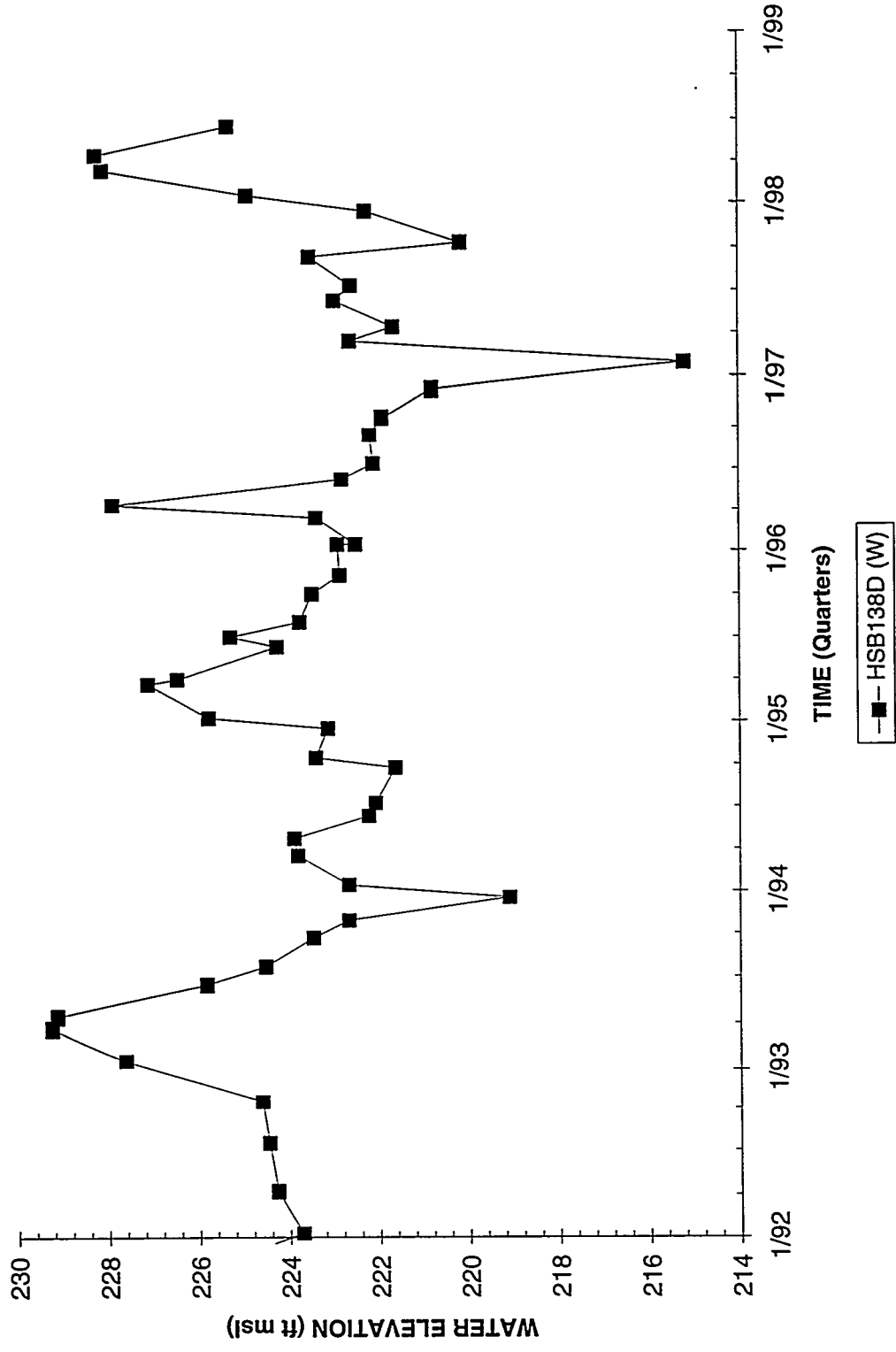
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB137



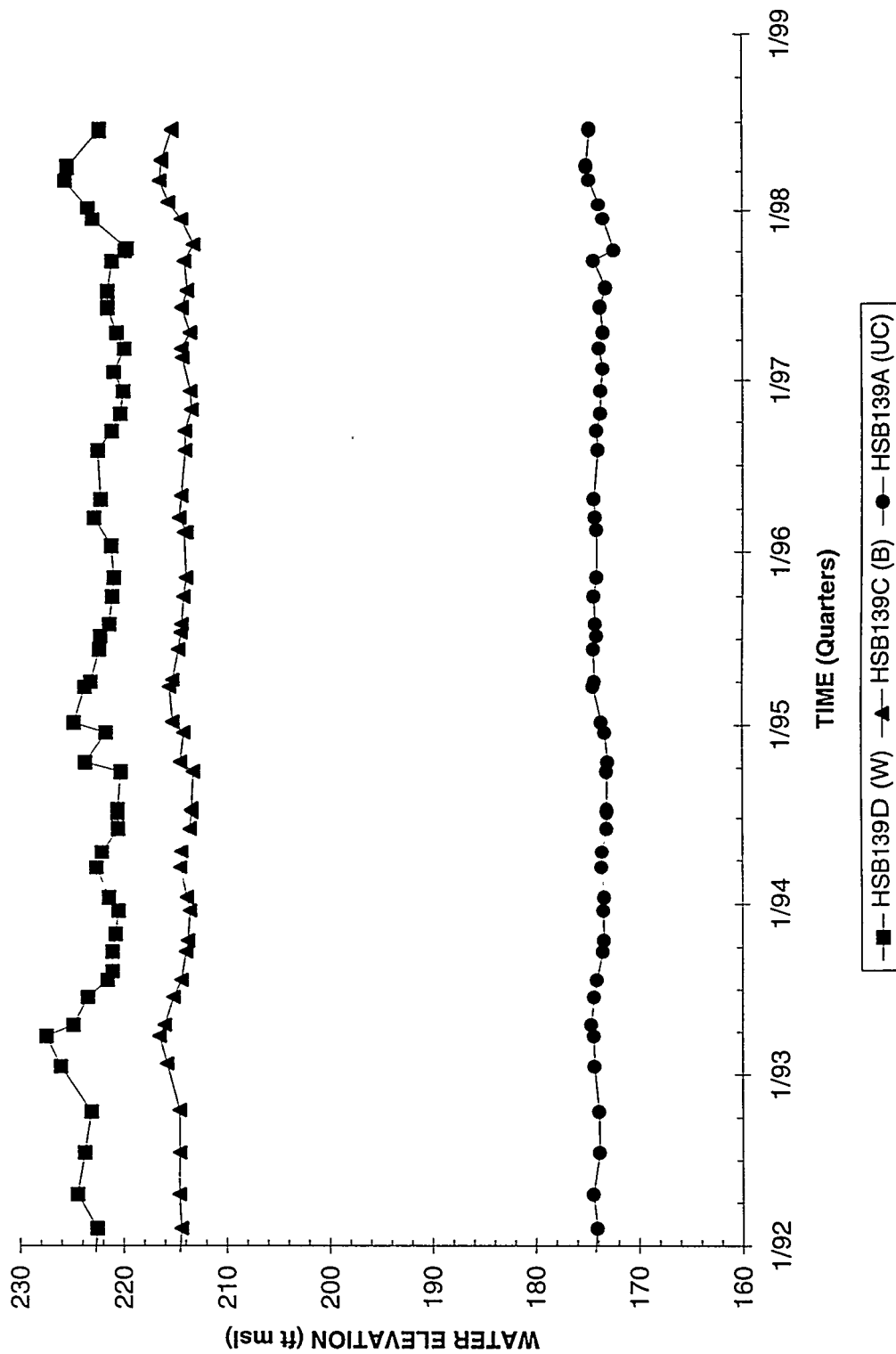
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB138D



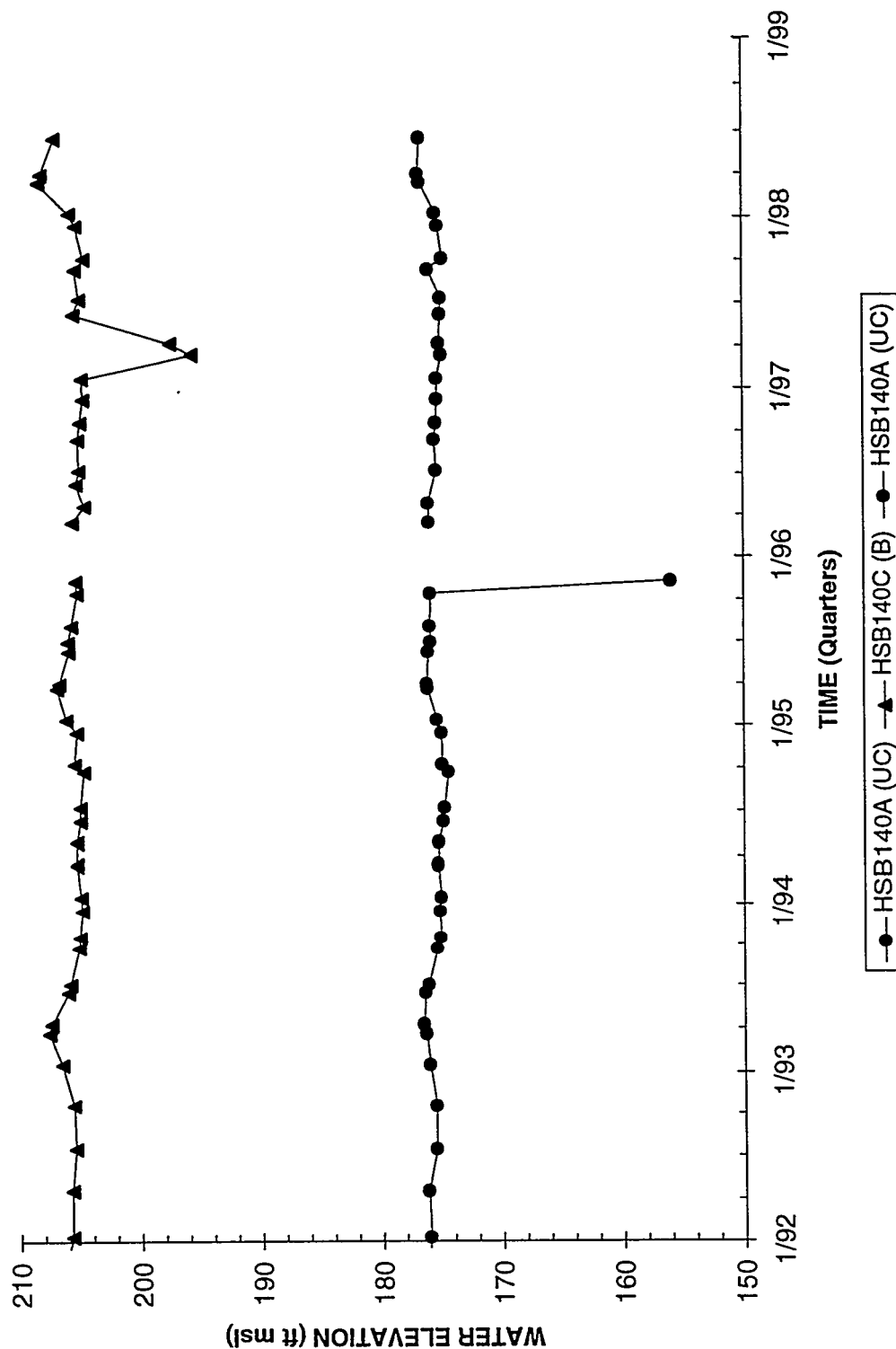
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB139



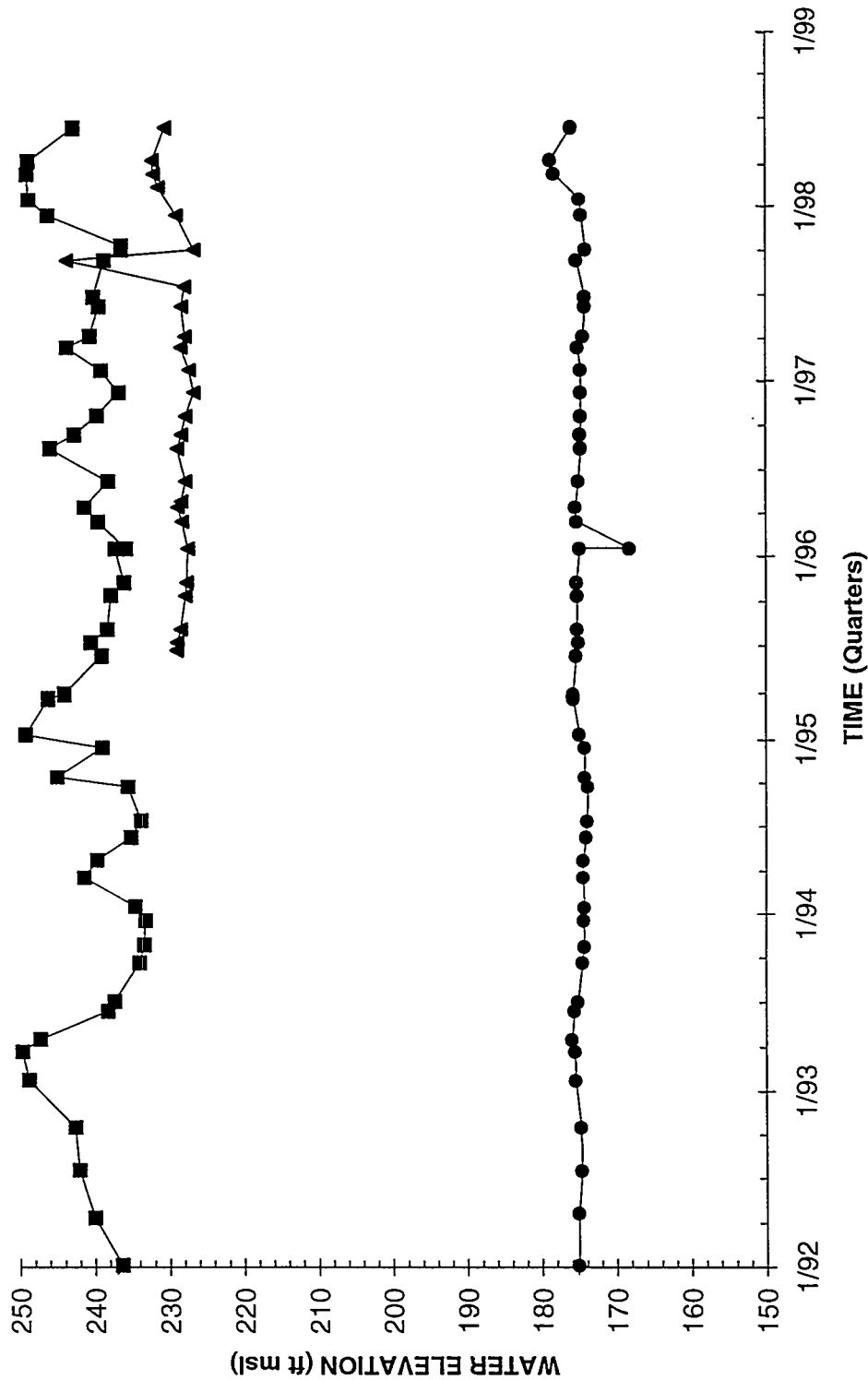
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIA); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

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)

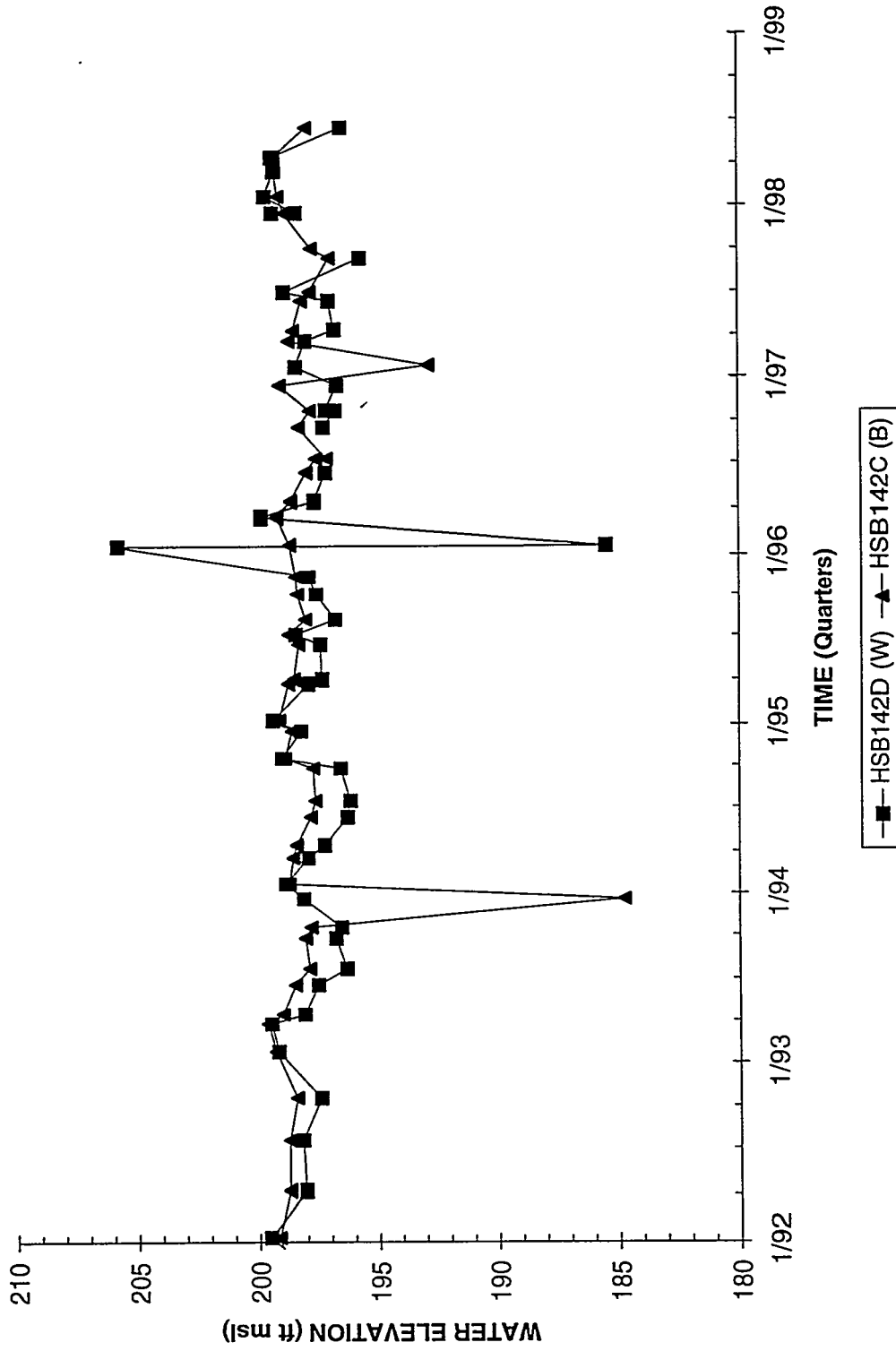
Hydrograph Well Cluster HSB141



HSB141D (W)
 HSB141CR (B)
 HSB141A (UC)

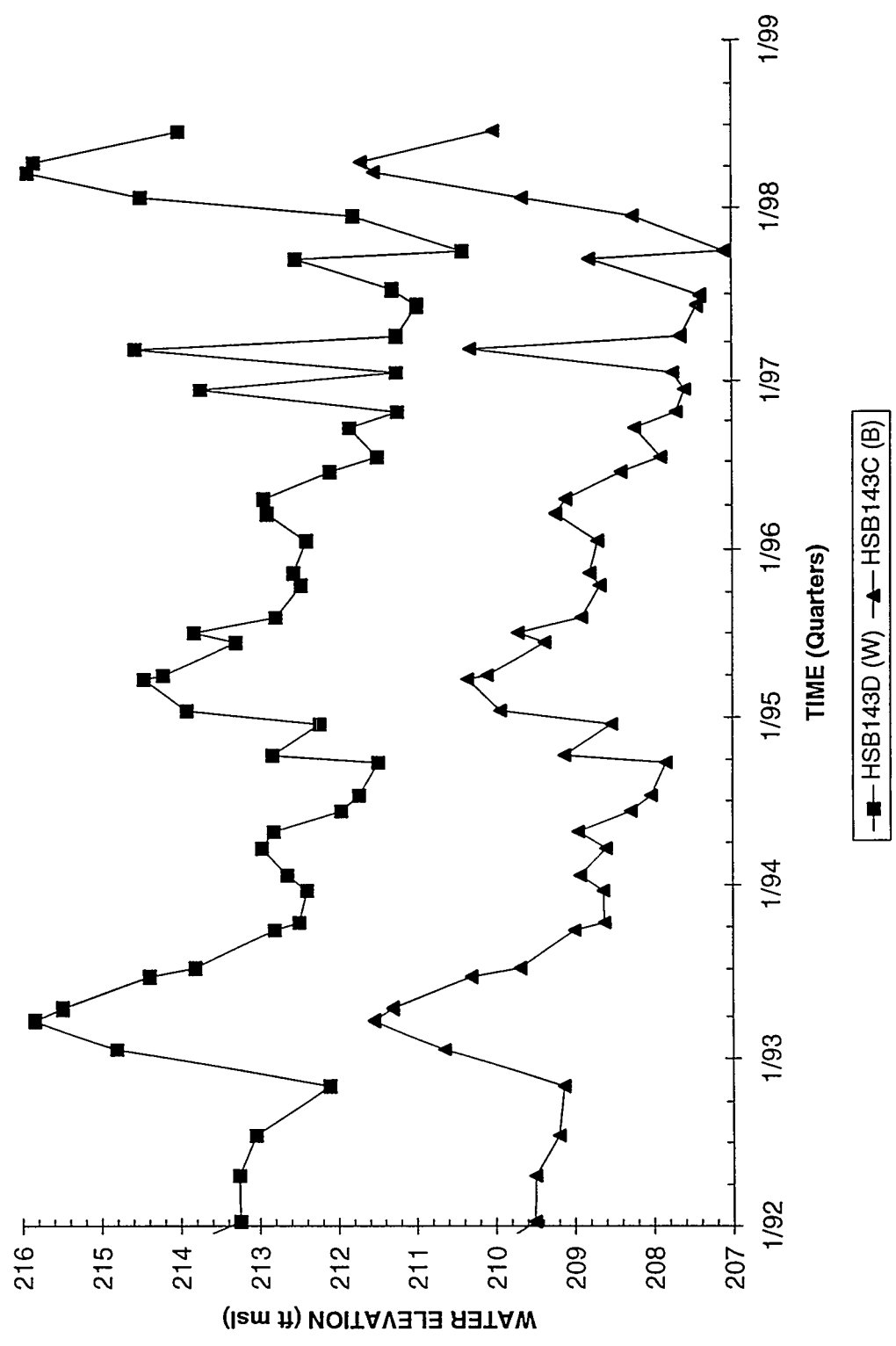
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB142



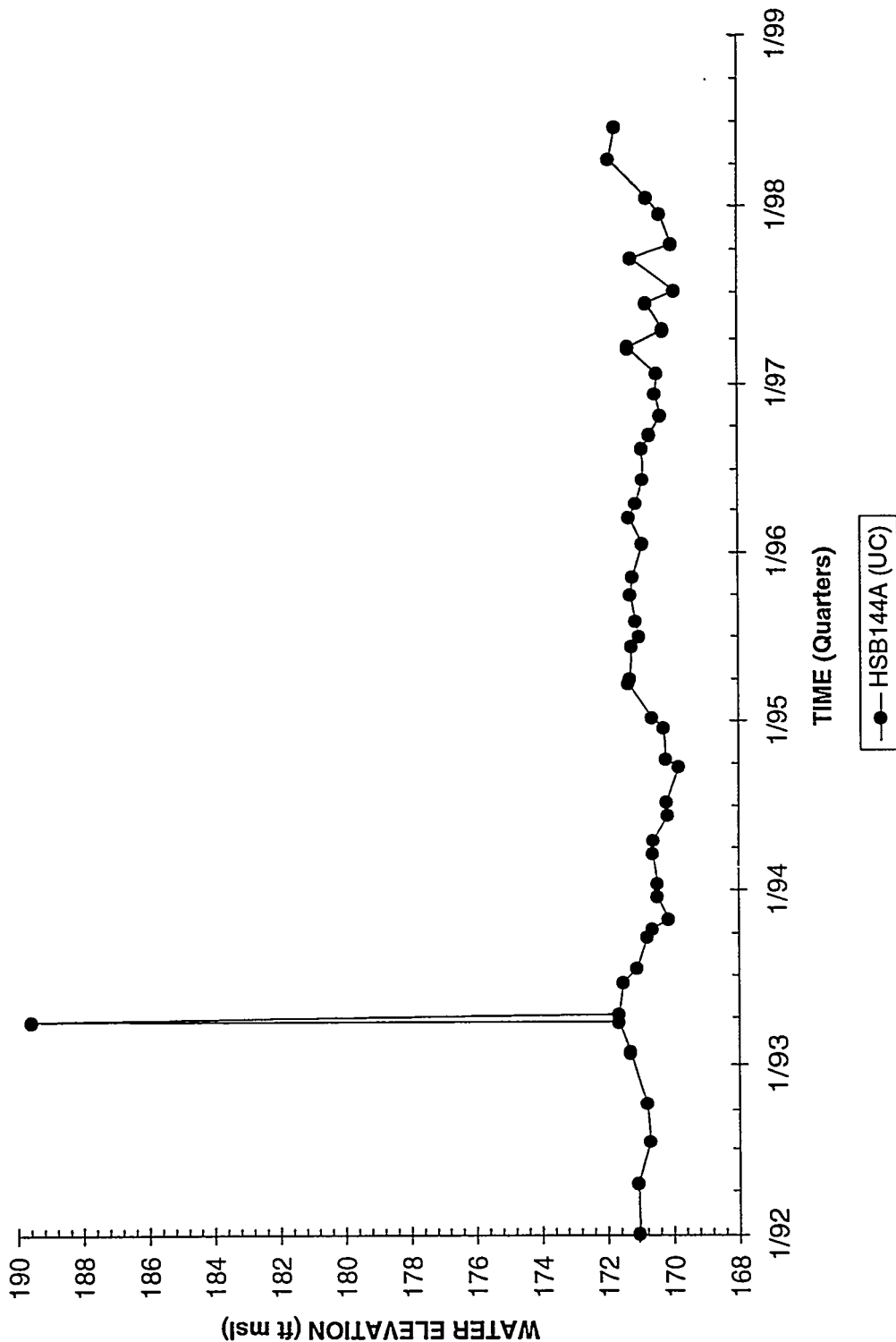
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB143



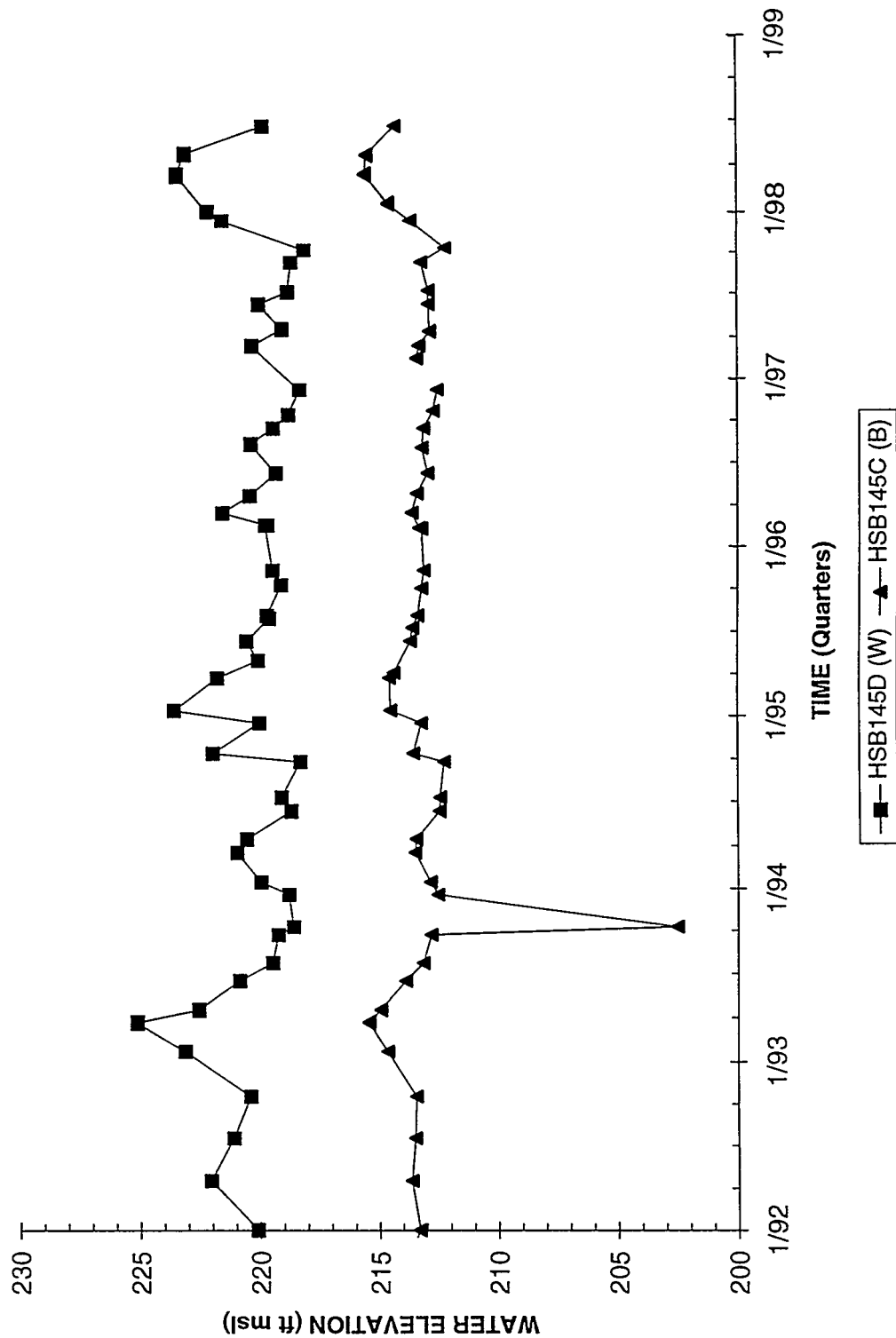
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB144A



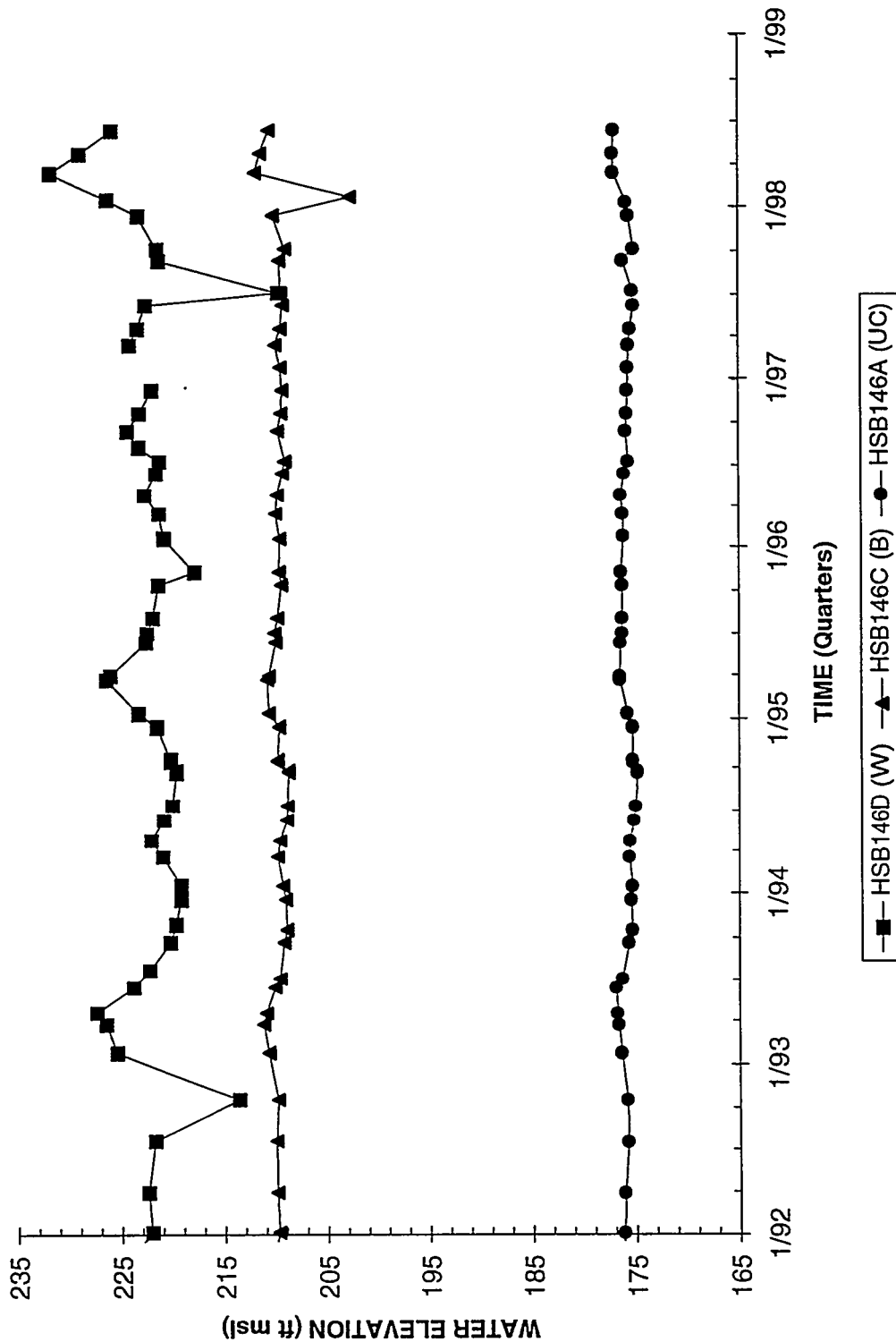
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB145



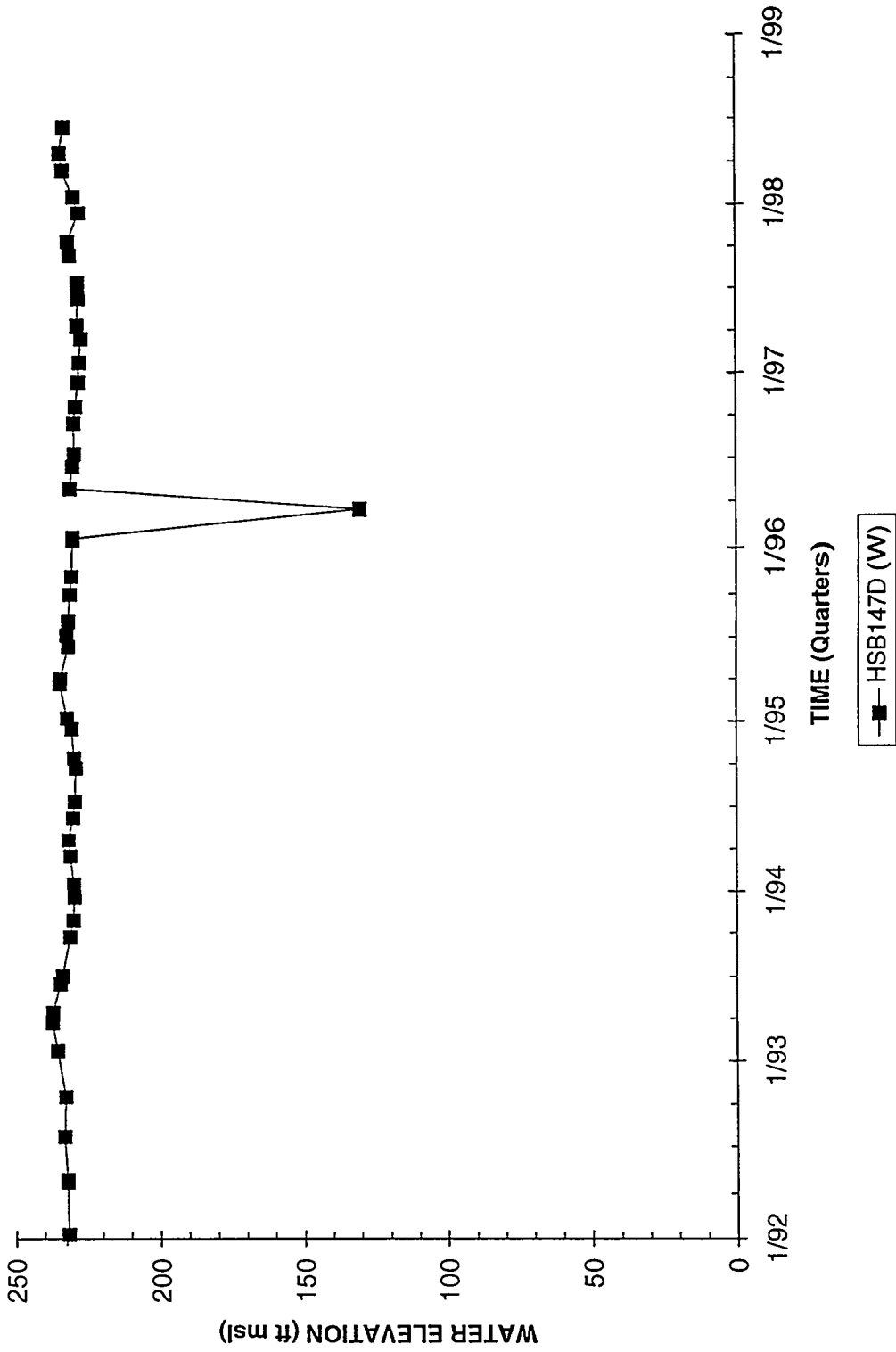
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB146



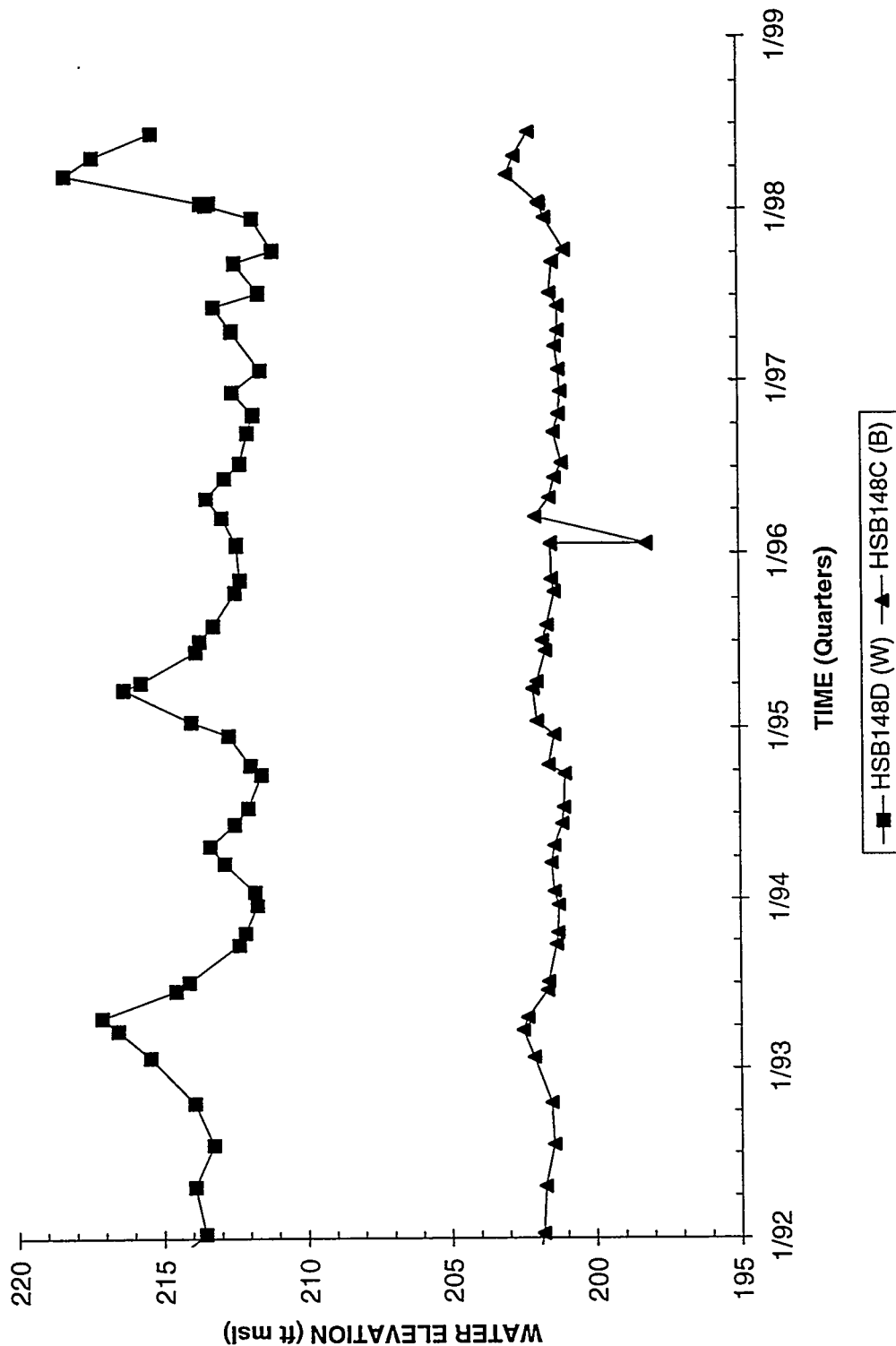
Note: W=Water Table (IB2); B=Bamwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB147D



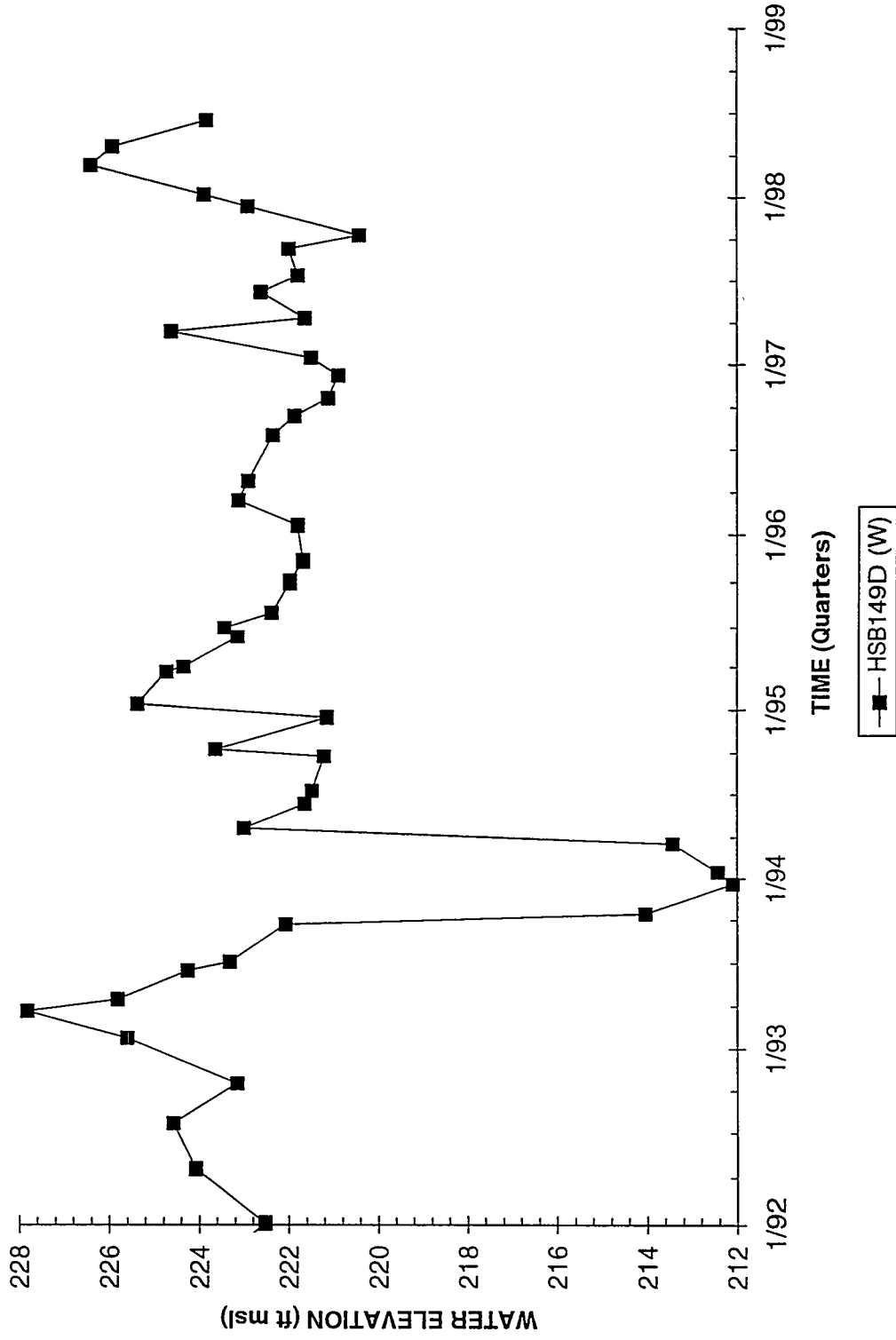
Note: W=Water Table (IB2); B=Bamwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB148



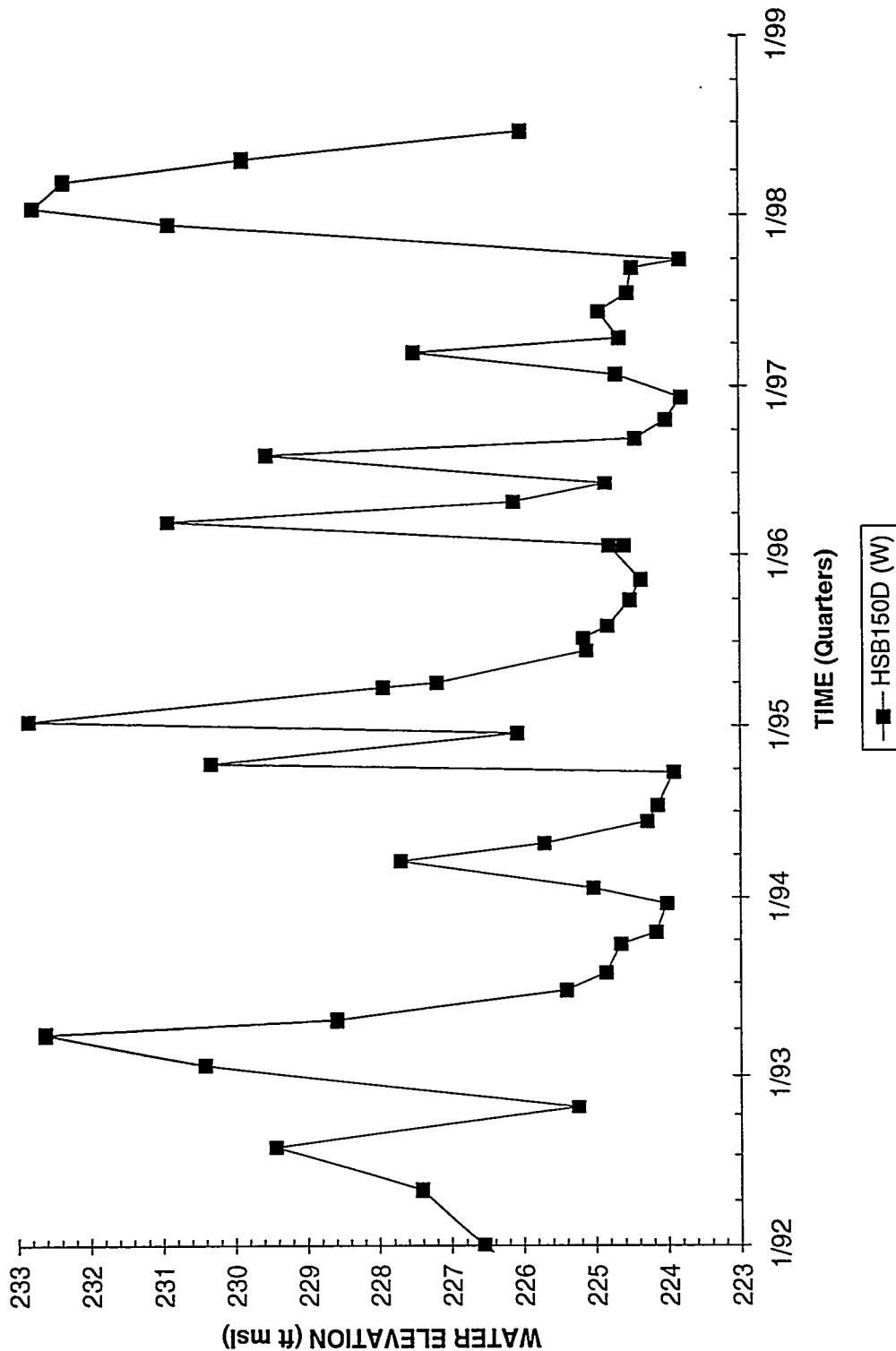
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB149D



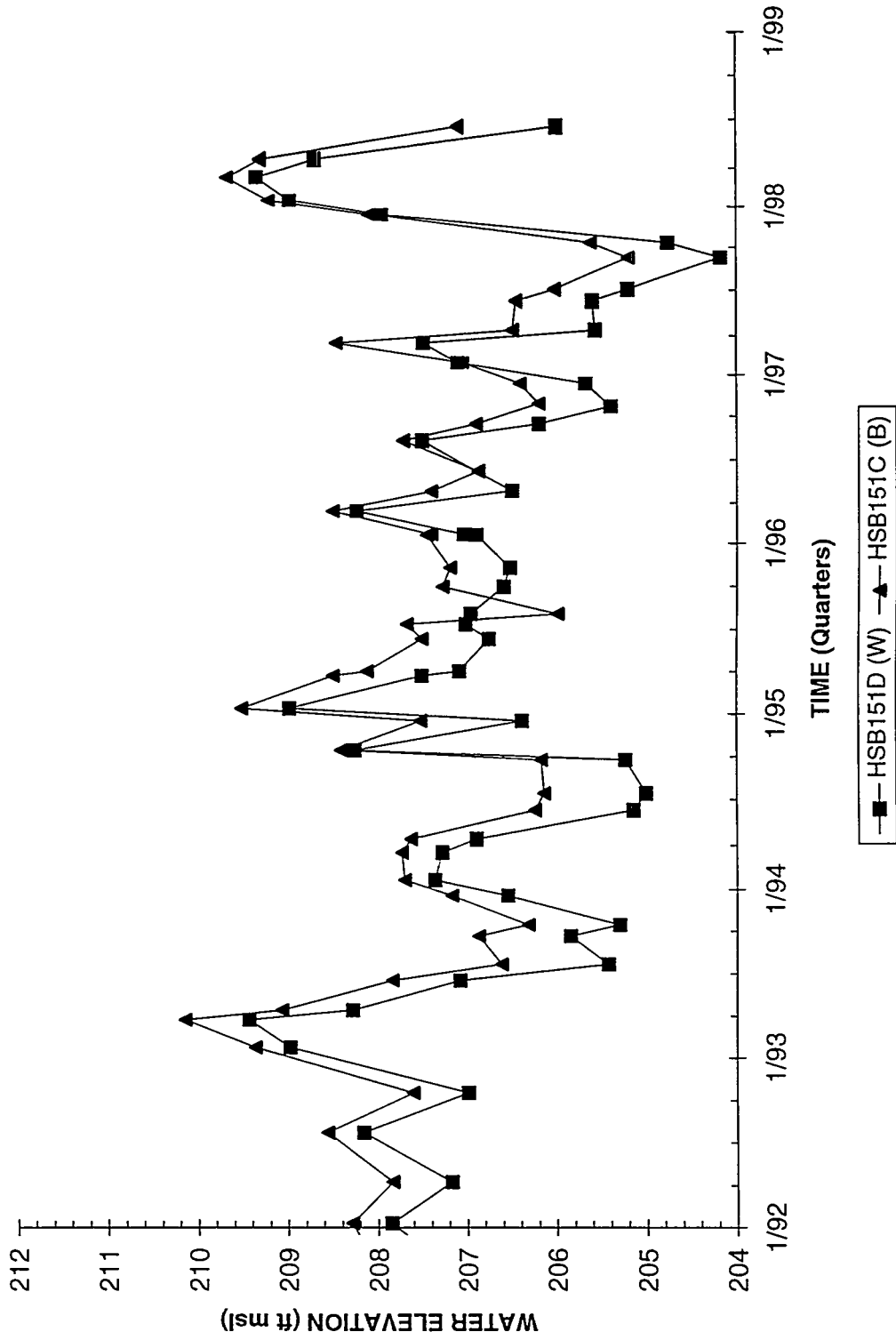
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSB150D



Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster HSB151



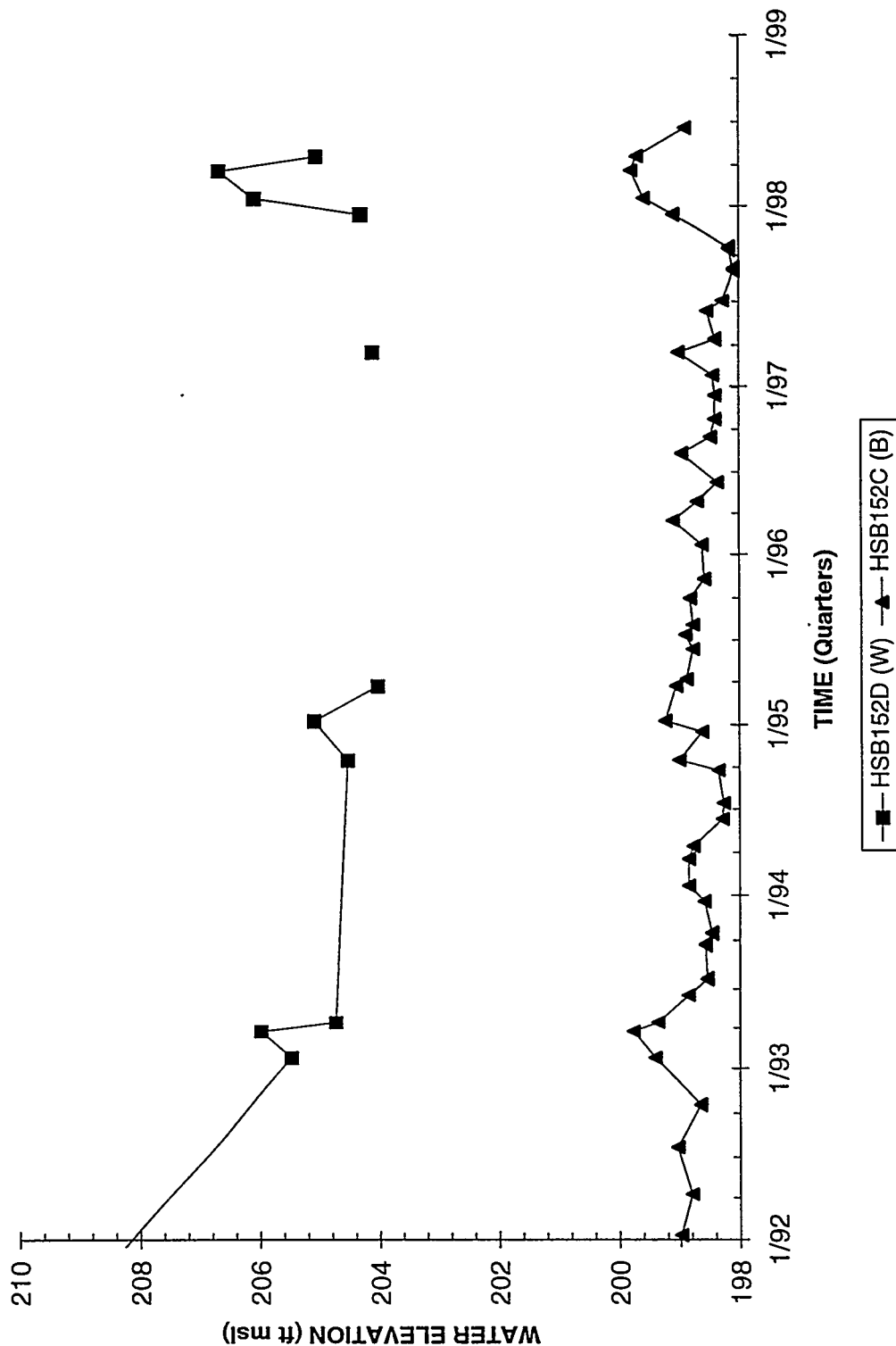
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

H-Ar W/MF

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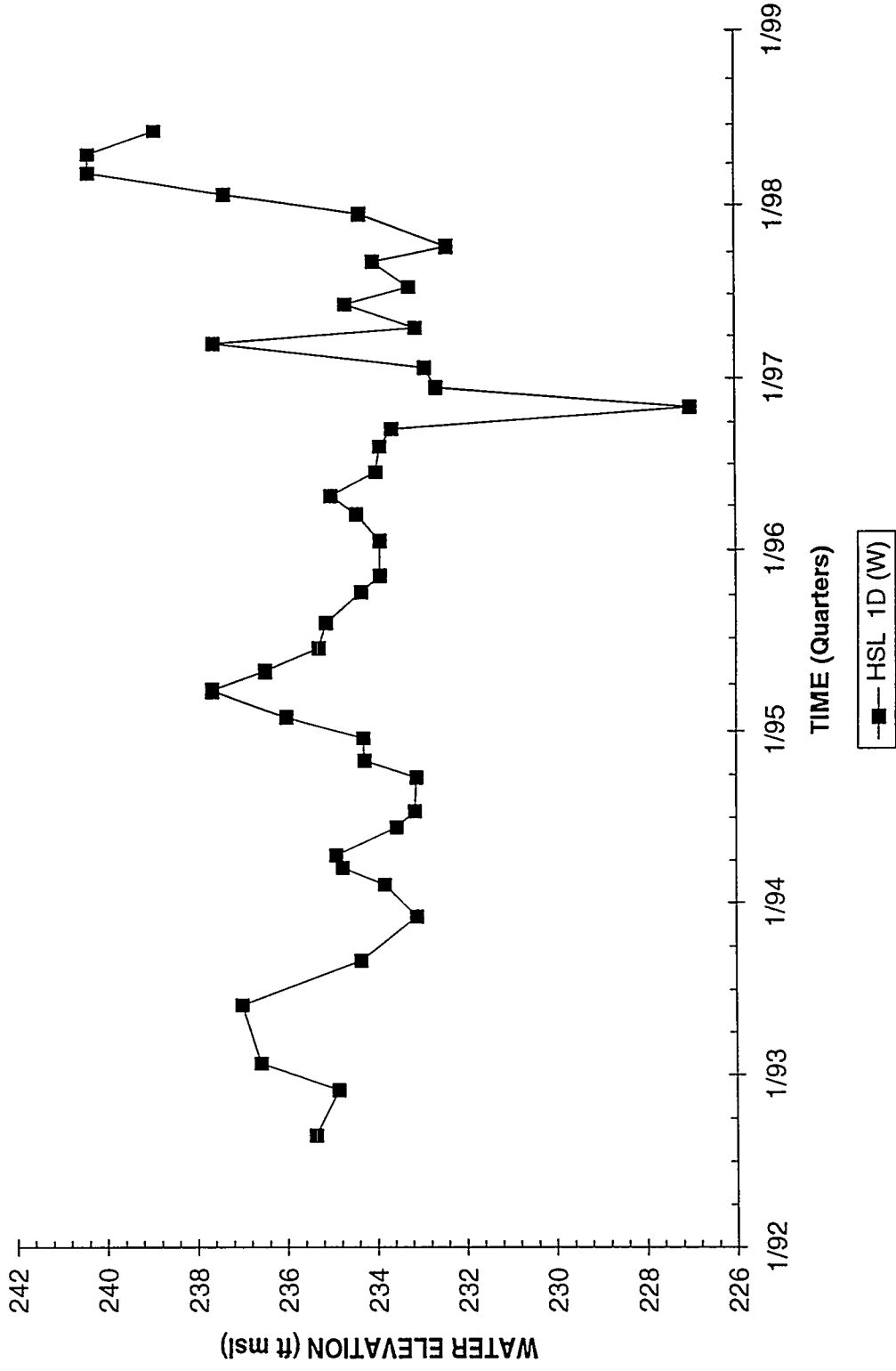
First and Second Qu- 1/98

Hydrograph Well Cluster HSB152



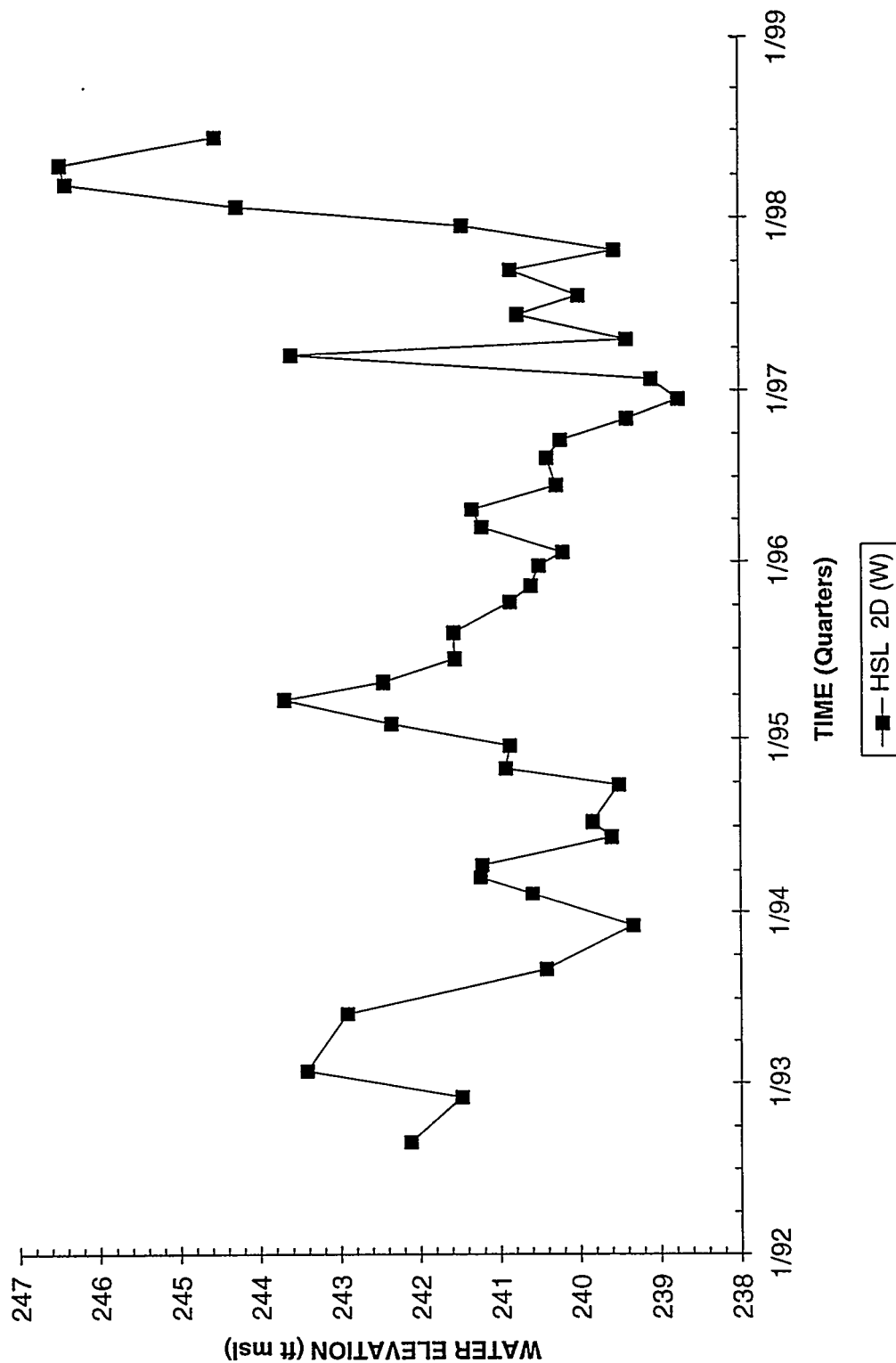
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSL 1D



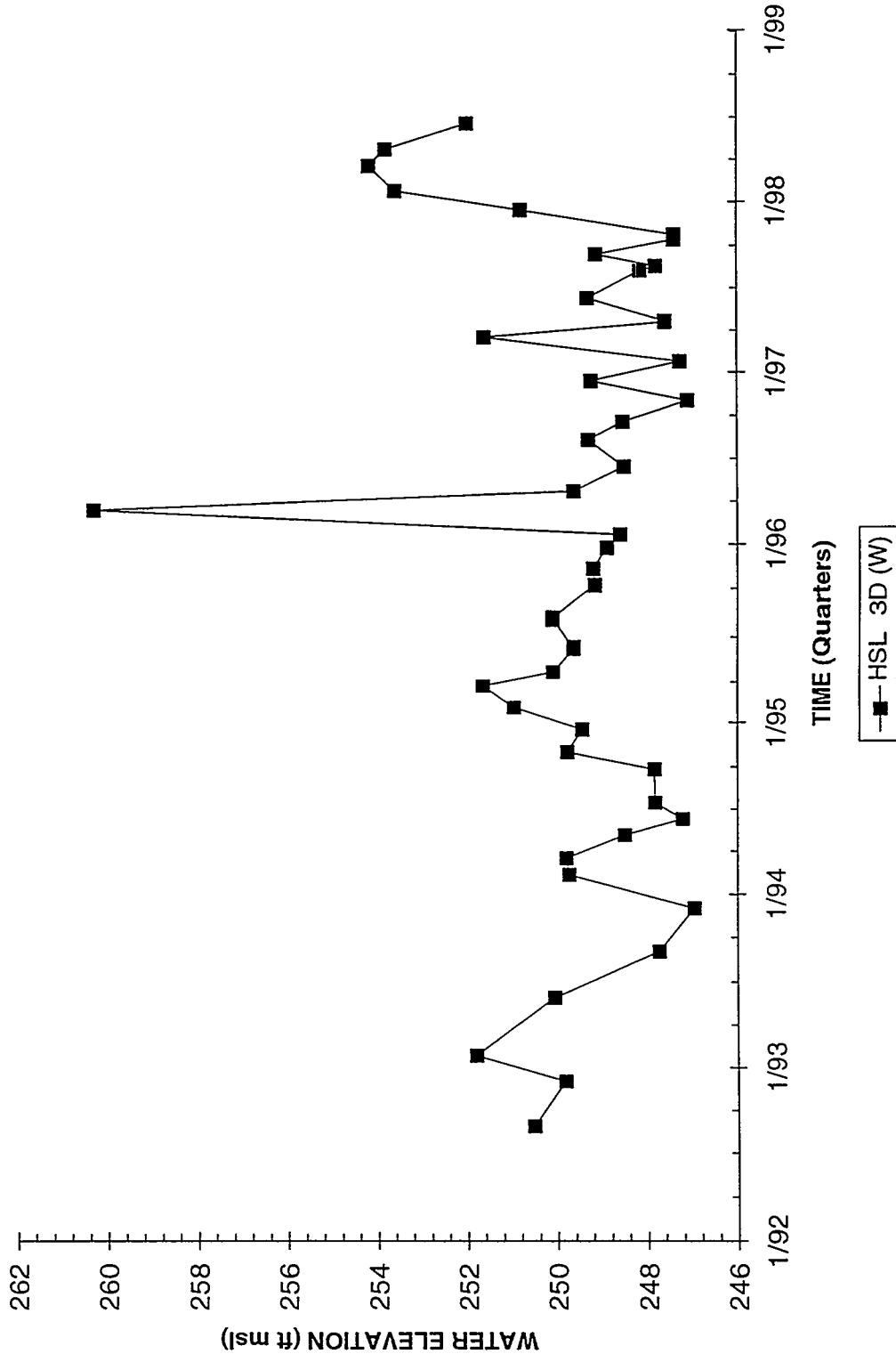
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSL 2D



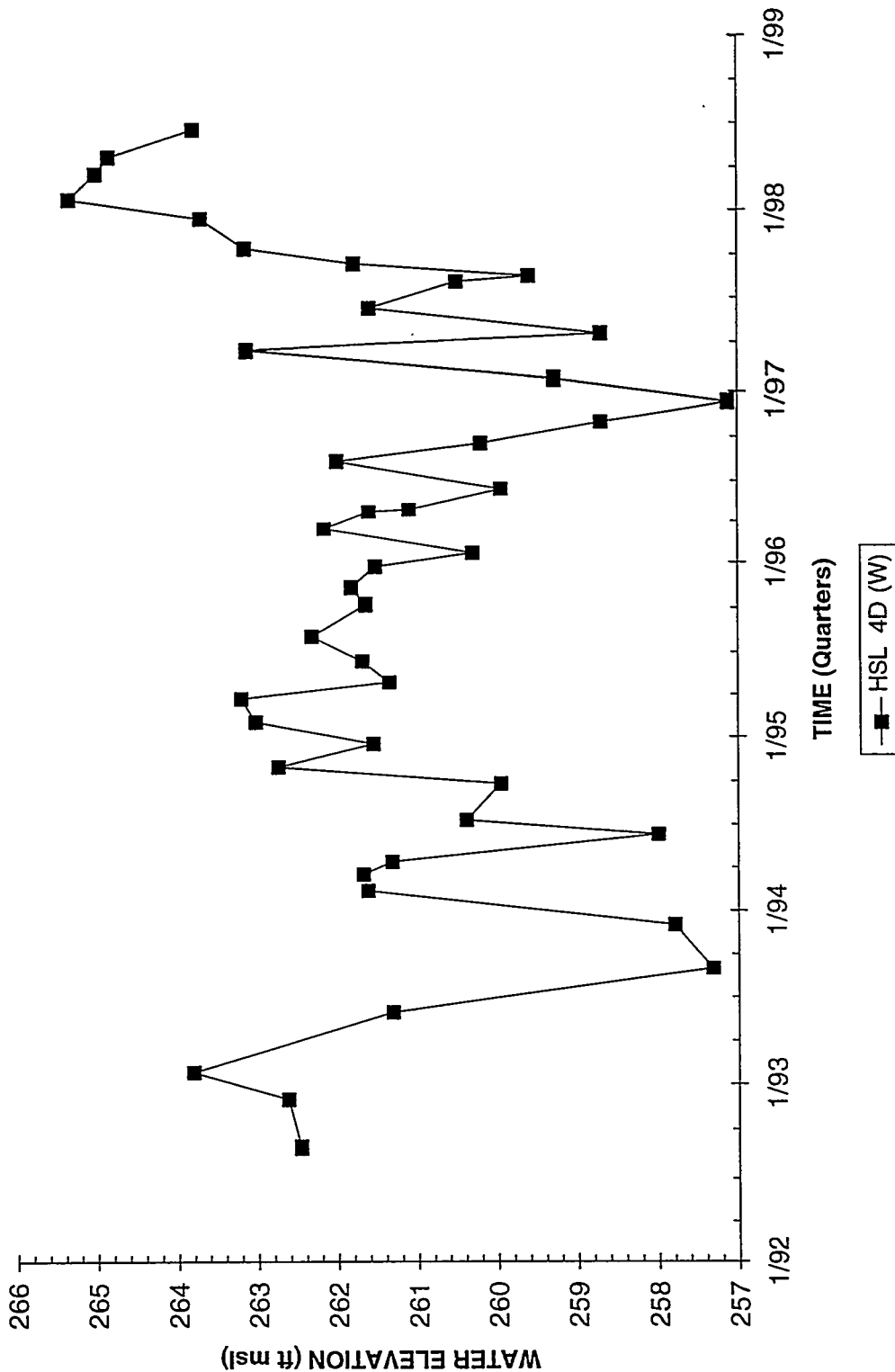
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSL 3D



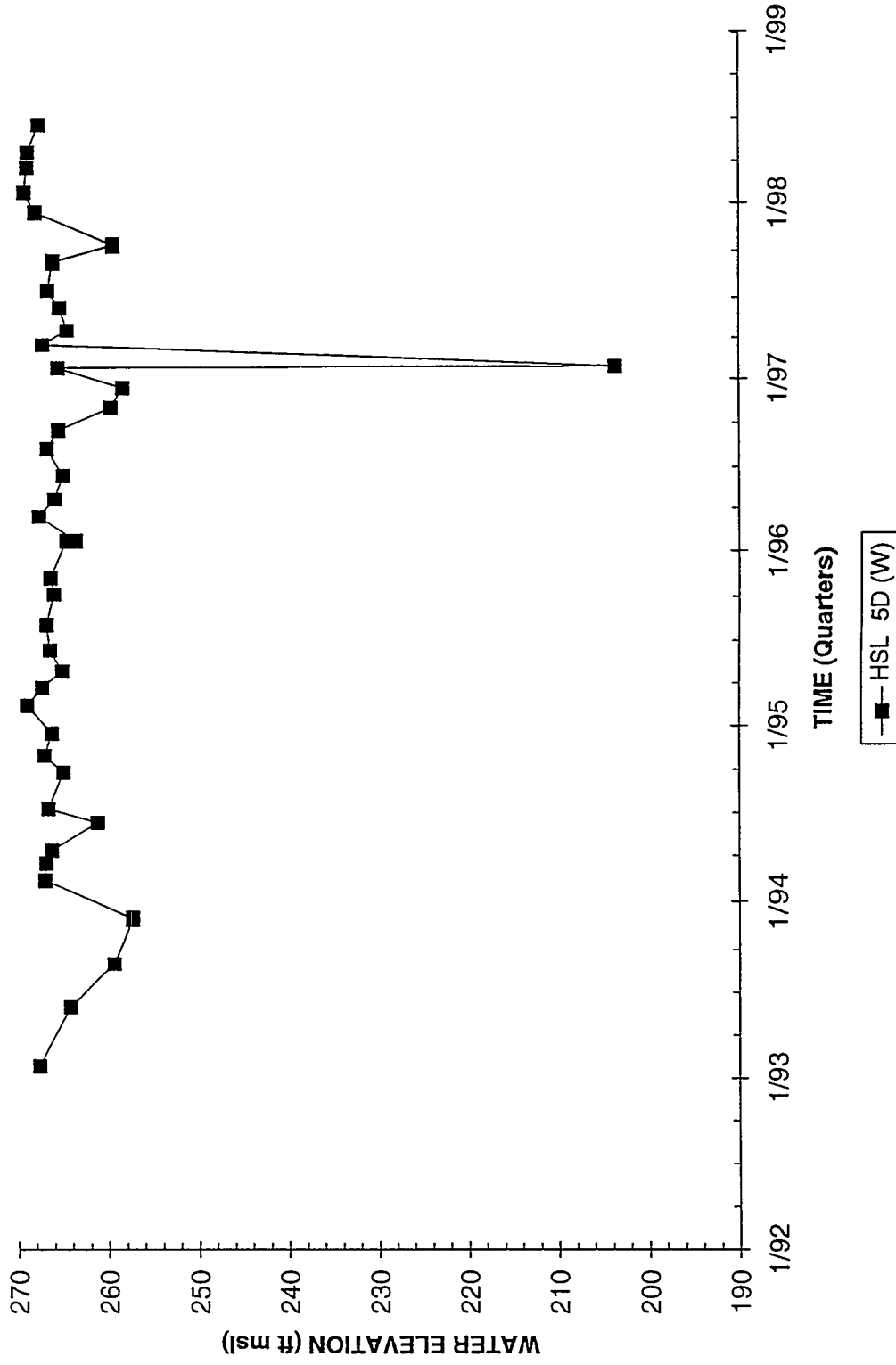
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSL 4D



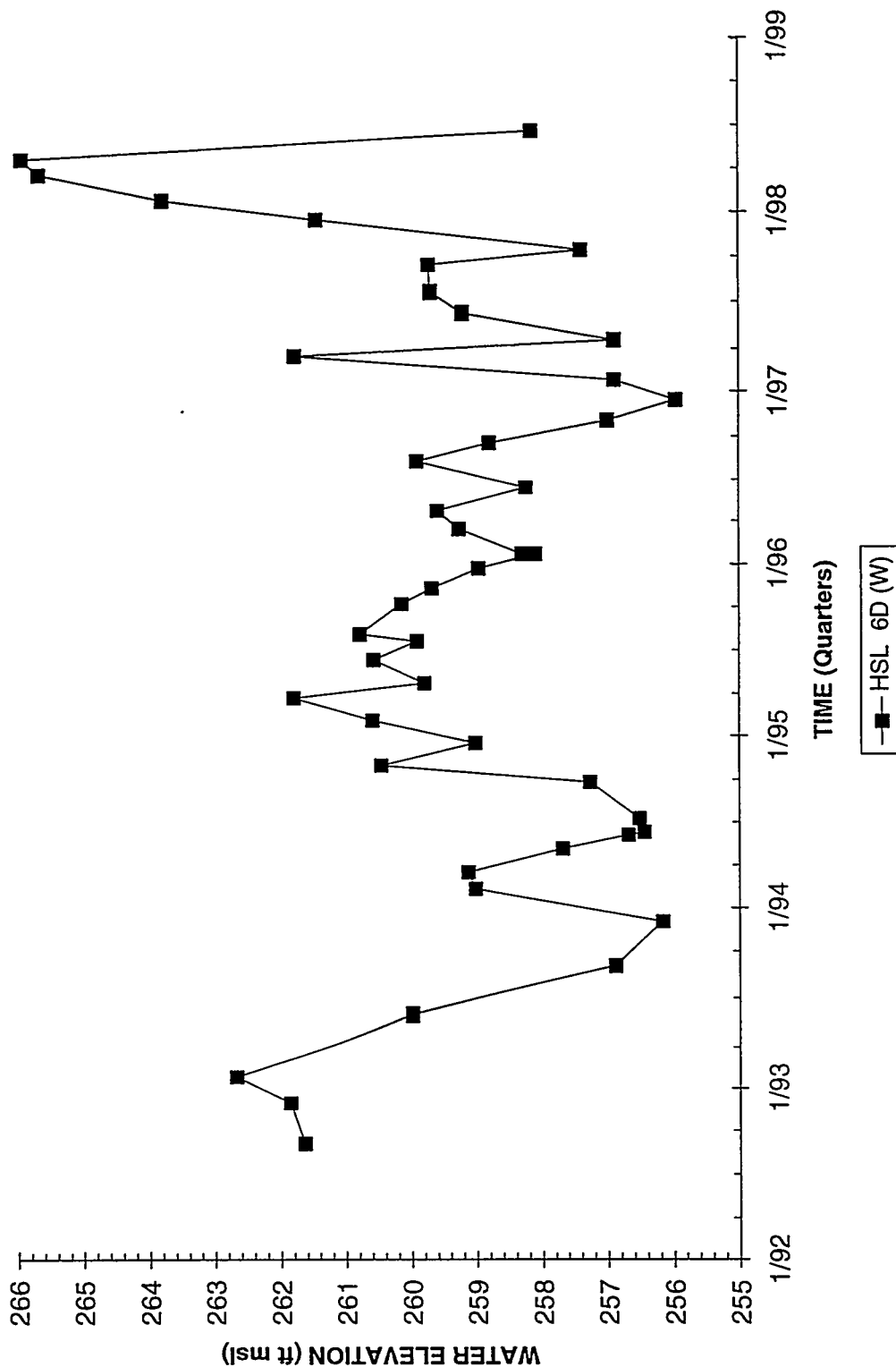
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSL 5D



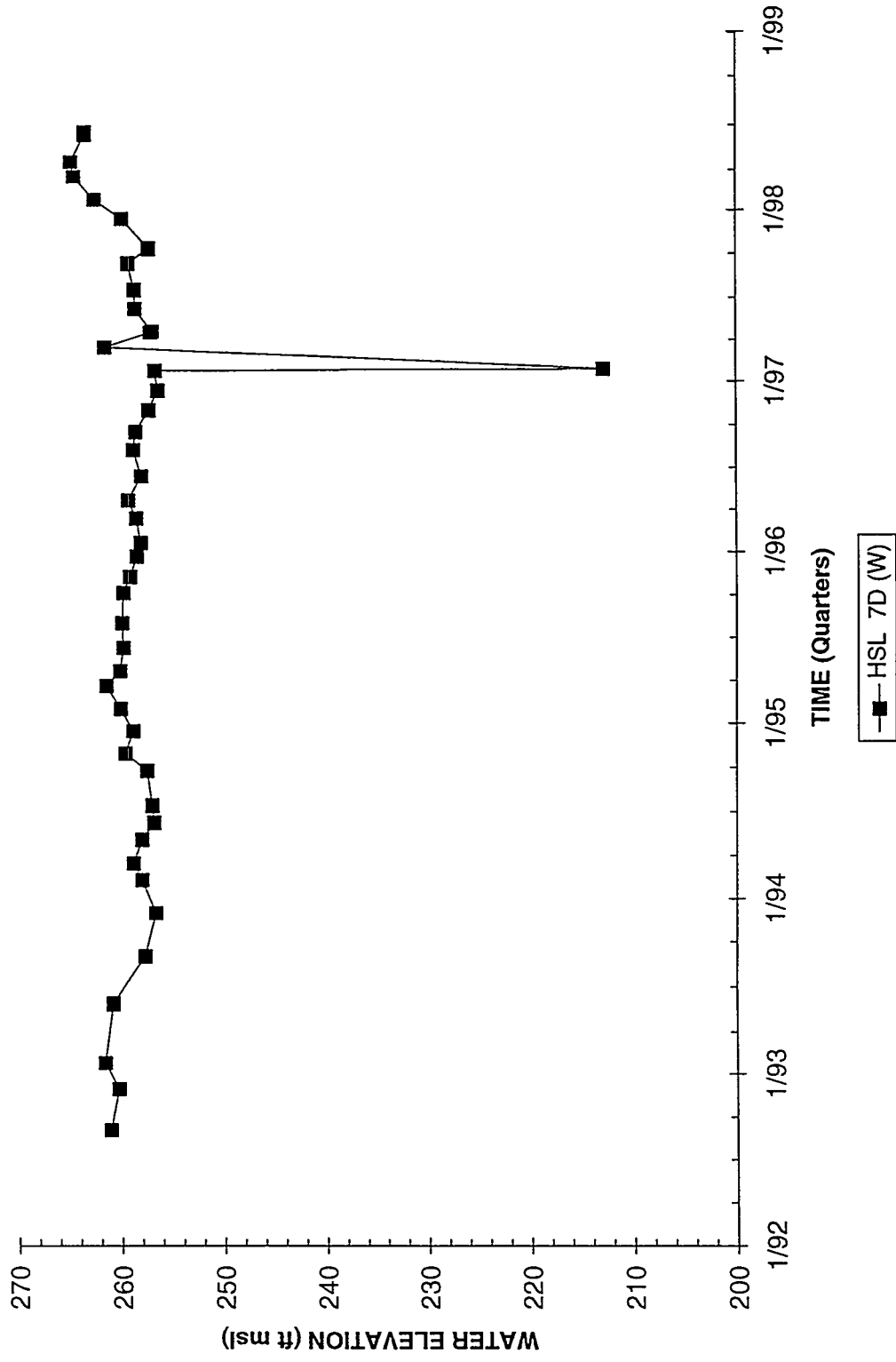
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSL 6D



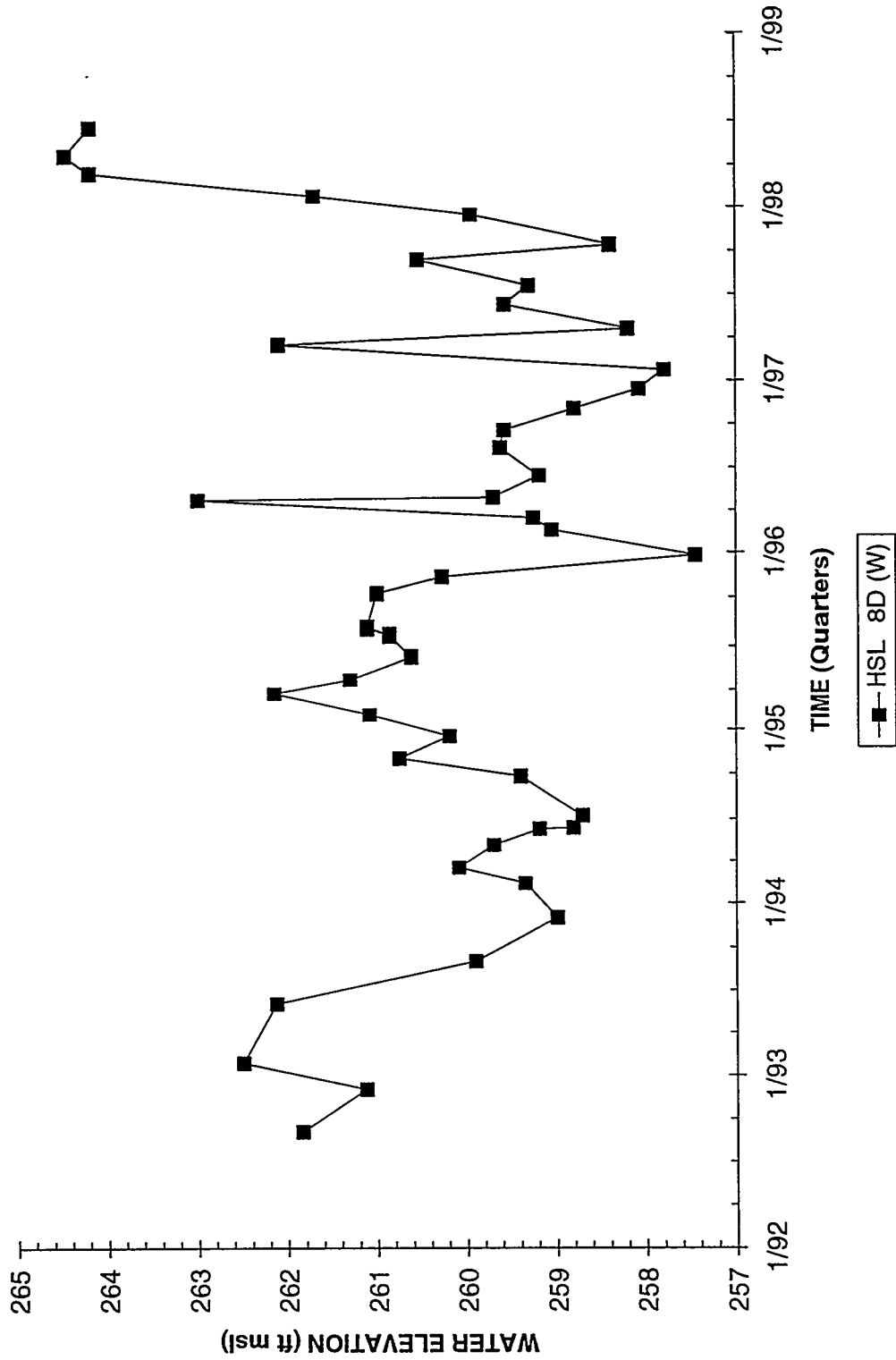
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSL 7D



Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well HSL 8D



Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

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Appendix F

Appendix IX Confirmation Sampling Results

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Table F-1. Confirmation Sampling for Selected Wells

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>Screen Zone</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 (IIB2)

SAMPLE DATE 12/26/97

FIELD DATA

<u>Constituents</u>	<u>4Q97</u>	<u>Unit</u>
Water elevation	226.4	ft msl
pH	4.0	pH
Sp. conductance	200	µS/cm
Water temperature	17.0	°C
Alkalinity as CaCO ₃	0	mg/L
Turbidity	3.3	NTU
Volumes purged	2.5	well vol
Sampling code		
Synchronous water level	225.1 (12/18/97)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>4Q97</u>	<u>MDL</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents								
Phorate	2	0.01	1	EJ			GE	µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

WELL HSB113D

<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>Screen Zone</u>
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 (IB2)

SAMPLE DATE 12/26/97

FIELD DATA

<u>Constituents</u>	<u>4Q97</u>	<u>Unit</u>
Water elevation	221.6	ft msl
pH	3.4	pH
Sp. conductance	240	µS/cm
Water temperature	18.0	*C
Alkalinity as CaCO ₃	0	mg/L
Turbidity	0.6	NTU
Volumes purged	3.4	well vol
Sampling code		
Synchronous water level	221.0 (12/18/97)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>4Q97</u>	<u>MDL</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
<i>Organic Constituents</i>								
Chlordane	<0.026	0.026	1	OHJ			GE	µg/L
Endosulfan I	<0.002	0.002	1	OHJ			GE	µg/L

Notes: Synchronous water levels are measured over approximately a 3–5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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>Screen Zone</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 (IIB2)

SAMPLE DATE 12/26/97

FIELD DATA

<u>Constituents</u>	<u>4Q97</u>	<u>Unit</u>
Water elevation	222.2	ft msl
pH	3.8	pH
Sp. conductance	340	µS/cm
Water temperature	18.0	°C
Alkalinity as CaCO ₃	0	mg/L
Turbidity	0.8	NTU
Volumes purged	4.1	well vol
Sampling code		
Synchronous water level	221.5 (12/18/97)	ft msl

ANALYTICAL DATA

<u>Constituents</u>	<u>4Q97</u>	<u>MDL</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Lab</u>	<u>Unit</u>
Organic Constituents								
Chlordane	<0.26	0.26	1				GE	µg/L

Notes: Synchronous water levels are measured over approximately a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard. See Appendix A.

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Appendix G

UIC Sampling Results

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H-Area WTU UIC Sample Results: July 1997- June 1998

UIC Permitted Constituents	Reg Limit	July Result	August Result	September Result	October Result	November Result	December Result	January Result	February Result	March Result	April Screen	April Result	June Result	June - R Result
Section I, INORGANICS														
Arsenic	ug/L 50	<20	<5	<5	<5	<5	<5	<5	<5	<5		<5	<3	
Barium	ug/L 2000	<5	<5	11.80	19.30	9.20	8.35	<5	11.50	<5		<5	3.76	
Cadmium	ug/L 5	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	<1	
Chromium	ug/L 100	<10	8.17	<5	<5	<5	<5	<5	<5	<5		<5	<3	
Lead	ug/L 50	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	<2	
Mercury	ug/L 2	<1	<0.2	<0.2	<0.2	<0.2	<0.2	1.06	0.64	<0.2		0.58	0.24	
Selenium	ug/L 50	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	<5	
Silver	ug/L 50	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	<1	
Section II, ORGANICS														
Antimony	ug/L 6	<5	<10	<10	<10	<10	<10	<10	<10	<10		<10	<0.2	
Cobalt	ug/L 140	<10	<5	<5	5.11	<5	<5	<5	<5	<5		<5	0.27	
Copper	ug/L 1300	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	1.46	
Cyanide	ug/L 2E+05	<20	<2	<10	<10	<10	<10	<10	<10	<10		<10	<10	
Benzene	ug/L 5	<5	<2	<1	<1	<1	<1	<1	<1	<1		<1	<1	
BEHP	ug/L 140	<10	69.10	<10	<11.1	<10.9	<10.5	<10.3	<10.3	<9.8		<10	<10.5	
Methylene Chloride	ug/L 5	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	<1	
Nickel	ug/L 100	<10	48.50	5.46	5.14	8.08	<5	<5	<5	<5		<5	<0.2	
Tetrachloroethylene	ug/L 5	<2	<2	<1	<1	<1	<1	<1	<1	<1		<1	<1	
Tin	ug/L 50	<25	<10	<10	<10	<10	<10	<10	<10	<10		<10	<1	
Trichloroethylene	ug/L 5	<2	<2	<1	<1	<1	<1	<1	<1	<1		<1	<1	
Trichlorofluoromethane	ug/L 100	<10	<2	<1	<1	<1	<1	<1	<1	<1		<1	<1	
Vanadium	ug/L 49	<20	<5	<5	<5	<5	<5	<5	<5	<5		<5	<2	
Zinc	ug/L 5000	<5	26.90	<5	15.60	14.90	<5	<5	<5	<5		<5	<5	
Section III, RADIONUCLIDES														
Gross Alpha	pCi/L 15	0.10	2.13	5.63	30.20	2.86	5.65	6.95	5.56	1.48		<2.32	<0.751	
Gross Beta	pCi/L 50	33.70	64.30	179.00	542.00	224.00	380.00	293.00	330.00	39.90		37.10	<50	
Total Radium (226+228)	pCi/L 5	BDL	BDL	>5	14.76	10.41	17.13	9.32	2.82	<5		<5	2.59	
Section IV, RADIONUCLIDES														
Americium-241	pCi/L SOA	<2.33	<0.31	<0.371	<0.173	<0.193	<0.498	<0.608	<0.486	<0.039		<0.206	<0.435	
Cesium-137	pCi/L SOB	<1.95	<2.22	<3.73	<3.73	Invalid	<3.09	<3.8	<3.69	<3.54		<3.47	<3.8	
Curium-242	pCi/L SOA	<3.71	<0.2	<0.252	<0.118	<0.167	<0.304	<0.616	<0.27	<0.0717		<0.164	<0.444	
Curium-243/244	pCi/L SOA	BDL	<0.23	<0.42	<0.153	<0.181	<0.422	<0.534	<0.504	<0.0606		<0.245	<0.498	
Curium-246	pCi/L SOA	<6.06	0.10	<0.101	<0.0753	<0.0961	<0.239	<0.262	<0.216	51.20		<0.128	<0.0906	
Carbon-14	pCi/L SOB	9.61	<8.53	<23.6	122.00	<106	150.00	48.00	61.50	<4.32		46.30	57.20	
Cobalt-60	pCi/L SOB	<2.1	<2.57	5.18	10.50	8.81	<3.57	<3.08	<4.55	16.20		<3.25	<4.06	
Iodine-129	pCi/L SOB	<2.38	7.58	<50	23.70	15.70	25.80	<50	<50	<50		10.10	5.03	
Plutonium-238	pCi/L SOA	<5.44	<0.28	<0.391	<0.177	<0.365	<0.313	<0.749	<0.216	<0.153		<0.201	<0.255	
Plutonium-239/240	pCi/L SOA	BDL	<0.16	<0.375	<0.0876	<0.435	<0.165	<0.459	<0.133	<0.126		<0.201	<0.231	
Nickel-63	pCi/L SOB	<4.17	<2.57	5.18	10.50	8.81	<3.57	<204	<297	<227		<197	<245	<23.7
Radium-226	pCi/L SOB	<1.68	<0.53	<1.05	1.36	1.08	1.53	0.98	1.61	<0.669		<0.669	<1.03	
Radium-228	pCi/L SOB	<1.55	<5	>5	13.40	9.33	15.60	8.34	1.21	<1.25		<1.14	2.59	
Strontium-90	pCi/L SOB	7.72	31.00	93.30	>50	171.00	>50	124.00	117.00	11.50		11.50	8.92	
Technetium-99	pCi/L SOB	<6.36	11.40	31.40	47.40	36.40	34.90	38.20	36.40	33.00		46.90	<24.2	
Thorium-228	pCi/L SOA	<0.28	Invalid	0.37	<0.771	<0.372	<0.233	<0.381	<0.834	<0.0923		<0.629	<0.819	
Thorium-230	pCi/L SOA	<14.3	Invalid	<0.288	<0.288	0.22	<0.101	<0.12	<0.548	<0.0831		<0.125	<0.32	
Thorium-232	pCi/L SOA	<4.67	<0.08	<0.276	<0.164	<0.0726	<0.101	<0.142	<0.465	<0.0562		<0.125	<0.271	
Uranium-233/234	pCi/L SOA	<4.77	0.15	0.87	0.99	<0.107	0.46	0.36	0.90	0.32		0.59	<0.118	
Uranium-235	pCi/L SOA	<0.0886	<0.03	<0.0886	<0.0271	<0.0703	<0.176	<0.108	<0.153	<0.142		<0.125	<0.208	
Uranium-238	pCi/L SOA	<3.6	<0.08	<0.102	0.34	<0.0334	<0.188	<0.23	<0.152	0.18		0.16	<0.244	
Sum of Alphas		BDL	0.24	1.24	2.69	1.30	1.99	<0.23	2.51	0.50		0.74	BDL	
Sum of Betas		17.33	49.98	135.06	227.50	197.95	226.30	211.54	223.11	112.30		114.80	73.74	

H-Area WTU UIC Sample Results: January 1998

UIC Permitted Constituents		Reg	Raw	Rad			January	Exceedence	
Constituent	Unit	Limit	Result	Acc	Qual.	QL	Result	Y/N	Notes
Section I, INORGANICS									
Arsenic	ug/L	50	5		U	5	<5	N	Samples collected 1/28/98
Barium	ug/L	2000	9.78			5	9.78	N	
Cadmium	ug/L	5	0.318		J	5	<5	N	
Chromium	ug/L	100	1.08		J	5	<5	N	
Lead	ug/L	50	1.67		J	5	<5	N	
Mercury	ug/L	2	1.06			0.2	1.06	N	
Selenium	ug/L	50	5		U	5	<5	N	
Silver	ug/L	50	1.33		J	5	<5	N	
Section II, ORGANICS									
Antimony	ug/L	6	10		U	10	<10	N	DL too high
Cobalt	ug/L	140	0.934		J	5	<5	N	
Copper	ug/L	1300	5		U	5	<5	N	
Cyanide	ug/L	2E+05	10		U	10	<10	N	
Benzene	ug/L	5	1		U	1	<1	N	
BEHP	ug/L	140	10.3		U	10.3	<10.3	N	
Methylene Chloride	ug/L	5	2.83		UJ	1	<1	N	
Nickel	ug/L	100	5		U	5	<5	N	
Tetrachloroethylene	ug/L	5	1		U	1	<1	N	
Tin	ug/L	50	10		U	10	<10	N	
Trichloroethylene	ug/L	5	1		U	1	<1	N	
Trichlorofluoromethane	ug/L	100	1		U	1	<1	N	
Vanadium	ug/L	49	1.36		J	5	<5	N	
Zinc	ug/L	5000	3.2		U	5	<5	N	
Section III, RADIONUCLIDES									
Gross Alpha	pCi/L	15	6.95	2.54		1.26	6.95	N	
Gross Beta	pCi/L	50	293	7.27		1.59	293.00	Y	
Total Radium (226+228)	pCi/L	5					9.32	Y	
Section IV, RADIONUCLIDES									
Americium-241	pCi/L	SOA	0.02	0.242	UI	0.608	<0.608	N	
Cesium-137	pCi/L	SOB	7.03	1.97	R	3.8	<3.8	N	
Curium-242	pCi/L	SOA	-0.133	0.148	UI	0.616	<0.616	N	
Curium-243/244	pCi/L	SOA	0.016	0.206	UI	0.534	<0.534	N	
Curium-246	pCi/L	SOA	0.019	0.088	UI	0.262	<0.262	N	
Carbon-14	pCi/L	SOB	48	14.5		22.2	48.00	N	
Cobalt-60	pCi/L	SOB	1.48	1.77	UI	3.08	<3.08	N	
Iodine-129	pCi/L	SOB	28.7	4.43	J	1.45	<50	N	Estimated result
Plutonium-238	pCi/L	SOA	0.146	0.339	UI	0.749	<0.749	N	
Plutonium-239/240	pCi/L	SOA	0.039	0.177	UI	0.459	<0.459	N	
Nickel-63	pCi/L	SOB	47.2	120	UI	204	<204	N	
Radium-226	pCi/L	SOR	0.984	0.52		0.538	0.98	N	
Radium-228	pCi/L	SOR	8.34	1.09		1.34	8.34	Y	
Strontium-90	pCi/L	SOB	117	5.76		2.25	117.00	Y	
Technetium-99	pCi/L	SOB	38.2	10.8		17.2	38.20	N	
Thorium-228	pCi/L	SOA	0.142	0.191	UI	0.381	<0.381	N	
Thorium-230	pCi/L	SOA	0.061	0.079	UI	0.12	<0.12	N	
Thorium-232	pCi/L	SOA	-0.012	0.017	UI	0.142	<0.142	N	
Uranium-233/234	pCi/L	SOA	0.358	0.23		0.107	0.36	N	
Uranium-235	pCi/L	SOA	0.072	0.102	UI	0.108	<0.108	N	
Uranium-238	pCi/L	SOA	0.195	0.179	UI	0.23	<0.23	N	
Sum of Alphas							1.34	N	
Sum of Betas							211.54	Y	

H-Area WTU UIC Sample Results: February 1998

UIC Permitted Constituents	Reg	Raw	Rad			February	Exceedence	
Constituent	Unit	Limit	Result	Acc	Qual.	QL	Result	Y/N
Notes								
Section I, INORGANICS								
Arsenic	ug/L	50	5		U	5	<5	N
Barium	ug/L	2000	11.5			5	11.50	N
Cadmium	ug/L	5	5		U	5	<5	N
Chromium	ug/L	100	5		U	5	<5	N
Lead	ug/L	50	5		U	5	<5	N
Mercury	ug/L	2	0.636			0.2	0.64	N
Selenium	ug/L	50	5		U	5	<5	N
Silver	ug/L	50	5		U	5	<5	N
Section II, ORGANICS								
Antimony	ug/L	6	1.75		J	10	<10	N
Cobalt	ug/L	140	5		U	5	<5	N
Copper	ug/L	1300	5		U	5	<5	N
Cyanide	ug/L	2E+05	10		U	10	<10	N
Benzene	ug/L	5	1		UJ	1	<1	N
BEHP	ug/L	140	10.3		U	10.3	<10.3	N
Methylene Chloride	ug/L	5	1		UJ	1	<1	N
Nickel	ug/L	100	5		U	5	<5	N
Tetrachloroethylene	ug/L	5	1		UJ	1	<1	N
Tin	ug/L	50	10		U	10	<10	N
Trichloroethylene	ug/L	5	1		UJ	1	<1	N
Trichlorofluoromethane	ug/L	100	1		UJ	1	<1	N
Vanadium	ug/L	49	2.94		J	5	<5	N
Zinc	ug/L	5000	1.25		J	5	<5	N
Section III, RADIONUCLIDES								
Gross Alpha	pCi/L	15	6.56	2.56		1.83	6.56	N
Gross Beta	pCi/L	50	330	8.97		1.89	330.00	Y
Total Radium (226+228)	pCi/L	5					2.82	N
Section IV, RADIONUCLIDES								
Americium-241	pCi/L	SOA	0.045	0.2	UI	0.486	<0.486	N
Cesium-137	pCi/L	SOB	1.01	1.93	UI	3.69	<3.69	N
Curium-242	pCi/L	SOA	-0.029	0.033	UI	0.27	<0.27	N
Curium-243/244	pCi/L	SOA	0.304	0.284	UI	0.504	<0.504	N
Curium-246	pCi/L	SOA	0.121	0.141	UI	0.216	<0.216	N
Carbon-14	pCi/L	SOB	61.5	7.16		9.35	61.50	Y
Cobalt-60	pCi/L	SOB	1.22	2.29	UI	4.55	<4.55	N
Iodine-129	pCi/L	SOB	17.3	3.27	J	1.59	<50	N
Plutonium-238	pCi/L	SOA	-0.031	0.087	UI	0.216	<0.216	N
Plutonium-239/240	pCi/L	SOA	0.028	0.064	UI	0.133	<0.133	N
Nickel-63	pCi/L	SOB	-33.3	170	UI	297	<297	N
Radium-226	pCi/L	SOR	1.61	0.542		0.33	1.61	N
Radium-228	pCi/L	SOR	1.21	0.585		1.12	1.21	N
Strontium-90	pCi/L	SOB	124	6.7		2.53	124.00	Y
Technetium-99	pCi/L	SOB	36.4	11.3		19.8	36.40	N
Thorium-228	pCi/L	SOA	-0.048	0.326	UI	0.834	<0.834	N
Thorium-230	pCi/L	SOA	0.157	0.269	UI	0.548	<0.548	N
Thorium-232	pCi/L	SOA	-0.04	0.13	UI	0.465	<0.465	N
Uranium-233/234	pCi/L	SOA	0.902	0.448		0.268	0.90	N
Uranium-235	pCi/L	SOA	0.051	0.102	UI	0.153	<0.153	N
Uranium-238	pCi/L	SOA	0.406	0.292	U	0.152	<0.152	N
Sum of Alphas							2.51	N
Sum of Betas							223.11	Y

H-Area WTU UIC Sample Results: March 1998

UIC Permitted Constituents	Reg	Raw	Rad	March	Exceedence				
Constituent	Unit	Limit	Result	Acc	Qual.	QL	Result	Y/N	Notes
Section I, INORGANICS									
Arsenic	ug/L	50	5		U	5	<5	N	Samples collected 3/17/98
Barium	ug/L	2000	0.537		J	5	<5	N	
Cadmium	ug/L	5	5		U	5	<5	N	
Chromium	ug/L	100	5		U	5	<5	N	
Lead	ug/L	50	5		U	5	<5	N	
Mercury	ug/L	2	0.172		J	0.2	<0.2	N	
Selenium	ug/L	50	5		U	5	<5	N	
Silver	ug/L	50	5		U	5	<5	N	
Section II, ORGANICS									
Antimony	ug/L	6	10		U	10	<10	N	DL too high
Cobalt	ug/L	140	5		U	5	<5	N	
Copper	ug/L	1300	5		U	5	<5	N	
Cyanide	ug/L	200000	10		U	10	<10	N	
Benzene	ug/L	5	1		U	1	<1	N	
BEHP	ug/L	140	9.8		U	9.8	<9.8	N	
Methylene Chloride	ug/L	5	1.37		U	1	<1	N	
Nickel	ug/L	100	5		U	5	<5	N	
Tetrachloroethylene	ug/L	5	1		U	1	<1	N	
Tin	ug/L	50	10		U	10	<10	N	
Trichloroethylene	ug/L	5	1		U	1	<1	N	
Trichlorofluoromethane	ug/L	100	1		U	1	<1	N	
Vanadium	ug/L	49	0.861		J	5	<5	N	
Zinc	ug/L	5000	5		U	5	<5	N	
Section III, RADIONUCLIDES									
Gross Alpha	pCi/L	15	1.48	1.13		1.32	1.48	N	
Gross Beta	pCi/L	50	39.9	3.35		2.92	39.90	N	
Total Radium (226+228)	pCi/L	5					<5	N	
Section IV, RADIONUCLIDES									
Americium-241	pCi/L	SOA	0.0161	0.0172	UIJ	0.039	<0.039	N	
Cesium-137	pCi/L	SOB	0.54	2.13	UI	3.54	<3.54	N	
Curium-242	pCi/L	SOA	0.0241	0.0382	UI	0.0717	<0.0717	N	
Curium-243/244	pCi/L	SOA	0.00259	0.025	UI	0.0606	<0.0606	N	
Curium-246	pCi/L	SOA	0.0891	0.0479	R	0.039	.		rejected result
Carbon-14	pCi/L	SOB	51.2	7.15		9.68	51.20	Y	
Cobalt-60	pCi/L	SOB	2.23	1.98	UI	4.32	<4.32	N	
Iodine-129	pCi/L	SOB	16.2	2.63		0.91	16.20	N	
Plutonium-238	pCi/L	SOA	0.138	0.107	UIJ	0.153	<0.153	N	
Plutonium-239/240	pCi/L	SOA	0.0436	0.0647	UI	0.126	<0.126	N	
Nickel-63	pCi/L	SOB	91.4	134	UI	227	<227		DL too high
Radium-226	pCi/L	SOR	0.365	0.429	UI	0.679	<0.679	N	
Radium-228	pCi/L	SOR	0.416	0.602	UI	1.25	<1.25	N	
Strontium-90	pCi/L	SOB	11.9	1.44		1.49	11.90	Y	
Technetium-99	pCi/L	SOB	33	12.1		22.9	33.00	N	
Thorium-228	pCi/L	SOA	-0.0179	0.0162	UI	0.0923	<0.0923	N	
Thorium-230	pCi/L	SOA	0.0445	0.0502	UI	0.0831	<0.0831	N	
Thorium-232	pCi/L	SOA	-0.0035	0.007	UI	0.0562	<0.0562	N	
Uranium-233/234	pCi/L	SOA	0.319	0.164		0.141	0.32	N	
Uranium-235	pCi/L	SOA	0.00075	0.0416	UI	0.142	<0.142	N	
Uranium-238	pCi/L	SOA	0.182	0.121		0.0987	0.18	N	
Sum of Alphas							0.50	N	
Sum of Betas							112.30	Y	

H-Area WTU UIC Sample Results: April Screen 1998

UIC Permitted Constituents		Reg	Raw	Rad			April	Exceedence	
Constituent	Unit	Limit	Result	Acc	Qual.	QL	Result	Y/N	Notes
									Sample Collected 4/14/98
Section III, RADIONUCLIDES									
Gross Alpha	pCi/L	15	3.13	1.86	U	2.32	<2.32	N	
Gross Beta	pCi/L	50	37.1	4.06		4.4	37.10	N	

H-Area WTU UIC Sample Results: April 1998

UIC Permitted Constituents			Reg	Raw	Rad			April	Exceedence	
Constituent	Unit	Limit	Result	Acc	Qual.	QL		Result	Y/N	Notes
Section I, INORGANICS										Samples collected 4/14/98
Arsenic	ug/L	50	5		U	5		<5	N	
Barium	ug/L	2000	3.28		J	5		<5	N	
Cadmium	ug/L	5	5		U	5		<5	N	
Chromium	ug/L	100	1.06		J	5		<5	N	
Lead	ug/L	50	1.05		U	5		<5	N	
Mercury	ug/L	2	0.576			0.2		0.58	N	
Selenium	ug/L	50	5		U	5		<5	N	
Silver	ug/L	50	2.75		U	5		<5	N	
Section II, ORGANICS										
Antimony	ug/L	6	10		U	10		<10	N	DL too high
Cobalt	ug/L	140	5		U	5		<5	N	
Copper	ug/L	1300	5		U	5		<5	N	
Cyanide	ug/L	2E+05	10		U	10		<10	N	
Benzene	ug/L	5	1		U	1		<1	N	
BEHP	ug/L	140	10		U	10		<10	N	
Methylene Chloride	ug/L	5	4.4		U	1		<1	N	
Nickel	ug/L	100	5		U	5		<5	N	
Tetrachloroethylene	ug/L	5	1		U	1		<1	N	
Tin	ug/L	50	10		U	10		<10	N	
Trichloroethylene	ug/L	5	1		U	1		<1	N	
Trichlorofluoromethane	ug/L	100	1		U	1		<1	N	
Vanadium	ug/L	49	2.12		J	5		<5	N	
Zinc	ug/L	5000	2.49		U	5		<5	N	
Section III, RADIONUCLIDES										
Gross Alpha	pCi/L	15	3.13	1.86	U	2.32		<2.32	N	
Gross Beta	pCi/L	50	37.1	4.06		4.4		37.10	N	
Total Radium (226+228)	pCi/L	5						<5	N	
Section IV, RADIONUCLIDES										
Americium-241	pCi/L	SOA	0.054	0.096	UI	0.206		<0.206	N	
Cesium-137	pCi/L	SOB	-0.98	2.05	UI	3.47		<3.47	N	
Curium-242	pCi/L	SOA	-0.012	0.043	UI	0.164		<0.164	N	
Curium-243/244	pCi/L	SOA	-0.051	0.072	UI	0.245		<0.245	N	
Curium-246	pCi/L	SOA	0.035	0.061	UI	0.128		<0.128	N	
Carbon-14	pCi/L	SOB	46.3	6.88		9.45		46.30	N	
Cobalt-60	pCi/L	SOB	-0.495	1.81	UI	3.25		<3.25	N	
Iodine-129	pCi/L	SOB	10.1	2.31		0.825		10.10	N	
Plutonium-238	pCi/L	SOA	-0.026	0.026	UI	0.201		<0.201	N	
Plutonium-239/240	pCi/L	SOA	0.001	0.059	UI	0.201		<0.201	N	
Nickel-63	pCi/L	SOB	16	114	UI	197		<197	N	DL too high
Radium-226	pCi/L	SOR	0.431	0.446	UI	0.669		<0.669	N	
Radium-228	pCi/L	SOR	0.487	0.541	UI	1.14		<1.14	N	
Strontium-90	pCi/L	SOB	11.5	2.36		2.57		11.50	Y	
Technetium-99	pCi/L	SOB	46.9	12.7		21.6		46.90	N	
Thorium-228	pCi/L	SOA	0.064	0.263	UI	0.629		<0.629	N	
Thorium-230	pCi/L	SOA	0.125	0.149	UI	0.125		<0.125	N	
Thorium-232	pCi/L	SOA	0.083	0.12	UI	0.125		<0.125	N	
Uranium-233/234	pCi/L	SOA	0.585	0.278		0.186		0.59	N	
Uranium-235	pCi/L	SOA	0.008	0.065	UI	0.209		<0.209	N	
Uranium-238	pCi/L	SOA	0.202	0.161		0.158		0.16	N	
Sum of Alphas								0.74	N	
Sum of Betas								114.80	Y	

H-Area WTU UIC Sample Results: June 1998

UIC Permitted Constituent	Reg	Raw	Rad			June	Exceedence	
Constituent	Unit	Limit	Result	Acc	Qual.	QL	Result	Y/N
Section I, INORGANICS								
Arsenic	ug/L	50	3		U	3	<3	N
Barium	ug/L	2000	3.76			0.2	3.76	N
Cadmium	ug/L	5	1		U	1	<1	N
Chromium	ug/L	100	0.621		J	3	<3	N
Lead	ug/L	50	0.322		J	2	<2	N
Mercury	ug/L	2	0.24			0.2	0.24	N
Selenium	ug/L	50	0.558		J	5	<5	N
Silver	ug/L	50	0.12		U	1	<1	N
Section II, ORGANICS								
Antimony	ug/L	6	0.2		U	0.2	<0.2	N
Cobalt	ug/L	140	0.266			0.2	0.27	N
Copper	ug/L	1300	1.46			0.2	1.46	N
Cyanide	ug/L	####	10		U	10	<10	N
Benzene	ug/L	5	1		U	1	<1	N
BEHP	ug/L	140	10.5		U	10.5	<10.5	N
Methylene Chloride	ug/L	5	2.94		U	1	<1	N
Nickel	ug/L	100	0.2		U	0.2	<0.2	N
Tetrachloroethylene	ug/L	5	1		U	1	<1	N
Tin	ug/L	50	2		U	2	<2	N
Trichloroethylene	ug/L	5	1		U	1	<1	N
Trichlorofluoromethane	ug/L	100	1		U	1	<1	N
Vanadium	ug/L	49	2		U	2	<2	N
Zinc	ug/L	5000	5		U	5	<5	N
Section III, RADIONUCLIDES								
Gross Alpha	pCi/L	15	0.271	0.41	U	0.75	<0.751	N
Gross Beta	pCi/L	50	7.57	0.95	J	1.13	<50	N
Total Radium (226+228)	pCi/L	5					2.59	N
Section IV, RADIONUCLIDES								
Americium-241	pCi/L	SOA	-0.13	0.22	UI	0.44	<0.435	N
Cesium-137	pCi/L	SOB	0.427	2.07	UI	3.8	<3.8	N
Curium-242	pCi/L	SOA	-0.01	0.19	UI	0.44	<0.444	N
Curium-243/244	pCi/L	SOA	0.018	0.23	UI	0.5	<0.498	N
Curium-246	pCi/L	SOA	0.091	0.11	UI	0.09	<0.0906	N
Carbon-14	pCi/L	SOB	57.2	7.22		9.53	57.20	Y
Cobalt-60	pCi/L	SOB	1.75	1.91	UI	4.06	<4.06	N
Iodine-129	pCi/L	SOB	5.03	2.27		1.33	5.03	N
Plutonium-238	pCi/L	SOA	-0.06	0.06	UI	0.26	<0.255	N
Plutonium-239/240	pCi/L	SOA	0.055	0.11	UI	0.23	<0.231	N
Nickel-63	pCi/L	SOB	30.6	143	UI	245	<245	DL too high
Radium-226	pCi/L	SOR	0.975	0.82	UI	1.03	<1.03	N
Radium-228	pCi/L	SOR	2.59	0.45		0.66	2.59	N
Strontium-90	pCi/L	SOB	8.92	1.22		1.22	8.92	Y
Technetium-99	pCi/L	SOB	7.14	10.6	UI	24.2	<24.2	N
Thorium-228	pCi/L	SOA	-0.13	0.27	UI	0.82	<0.819	N
Thorium-230	pCi/L	SOA	0.284	0.26	UI	0.32	<0.32	N
Thorium-232	pCi/L	SOA	-0.01	0.02	UI	0.27	<0.271	N
Uranium-233/234	pCi/L	SOA	0.118	0.14	UI	0.12	<0.118	N
Uranium-235	pCi/L	SOA	0.109	0.14	UI	0.21	<0.208	N
Uranium-238	pCi/L	SOA	-0.02	0.03	UI	0.24	<0.244	N
Sum of Alphas							BDL	N
Sum of Betas							73.74	Y

H-Area WTU UIC Sample Results: June Reanalysis 1998

UIC Permitted Constituent			Reg	Raw	Rad		June	Exceedence	
Constituent	Unit	Limit	Result	Acc	Qual.	QL	Result	Y/N	Notes
Section I, INORGANICS									Sample s collecte
Arsenic	ug/L	50							
Barium	ug/L	2000							
Cadmium	ug/L	5							
Chromium	ug/L	100							
Lead	ug/L	50							
Mercury	ug/L	2							
Selenium	ug/L	50							
Silver	ug/L	50							
Section II, ORGANICS									
Antimony	ug/L	6							
Cobalt	ug/L	140							
Copper	ug/L	1300							
Cyanide	ug/L	####							
Benzene	ug/L	5							
BEHP	ug/L	140							
Methylene Chloride	ug/L	5							
Nickel	ug/L	100							
Tetrachloroethylene	ug/L	5							
Tin	ug/L	50							
Trichloroethylene	ug/L	5							
Trichlorofluoromethane	ug/L	100							
Vanadium	ug/L	49							
Zinc	ug/L	5000							
Section III, RADIONCULIDES									
Gross Alpha	pCi/L	15							
Gross Beta	pCi/L	50							
Total Radium (226+228)	pCi/L	5							
Section IV, RADIONCULIDES									
Americium-241	pCi/L	SOA							
Cesium-137	pCi/L	SOB							
Curium-242	pCi/L	SOA							
Curium-243/244	pCi/L	SOA							
Curium-246	pCi/L	SOA							
Carbon-14	pCi/L	SOB							
Cobalt-60	pCi/L	SOB							
Iodine-129	pCi/L	SOB							
Plutonium-238	pCi/L	SOA							
Plutonium-239/240	pCi/L	SOA							
Nickel-63	pCi/L	SOB	10.3	14.1	UI	23.7	<23.7		Reanalysis
Radium-226	pCi/L	SOR							
Radium-228	pCi/L	SOR							
Strontium-90	pCi/L	SOB							
Technetium-99	pCi/L	SOB	-5.34	3.28	UI	8.58	<8.58		Reanalysis
Thorium-228	pCi/L	SOA							
Thorium-230	pCi/L	SOA							
Thorium-232	pCi/L	SOA							
Uranium-233/234	pCi/L	SOA							
Uranium-235	pCi/L	SOA							
Uranium-238	pCi/L	SOA							
Sum of Alphas									
Sum of Betas									

GENERAL SEPARATIONS AREA MAPS FOR THE F- AND H-AREA HAZARDOUS WASTE MANAGEMENT FACILITIES SEMIANNUAL CORRECTIVE ACTION REPORTS (U)

FIRST AND SECOND QUARTER 1998

Volume II

Publication Date: September 1998

**Document Reference Numbers:
WSRC-TR-98-00147 F-Area HWMF
WSRC-TR-98-00148 H-Area HWMF**

**Authorized Derivative Classifier
and Reviewing Official:**

C. G. Reerls, R.O.

**UNCLASSIFIED
Does Not Contain Unclassified
Controlled Nuclear Information**

**Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808**

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

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Appendix H

General Separations Area Maps for the F- and H-Area Hazardous Waste Management Facilities Semiannual Corrective Action Reports

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