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1993 ANNUAL REPORT

TNX-AREA GROUNDWATER MONITORING REPORT (U)

KEY WORDS

TBG wells
TNX wells
trichloroethylene
XSB wells
YSB wells

PUBLICATION DATE: MAY 1994

MASTER

WESTINGHOUSE SAVANNAH RIVER COMPANY
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Abstract

During 1993, samples from well cluster P 26 and the TBG, TNX, XSB, and YSB well series at the TNX Area were analyzed for selected heavy metals, indicator parameters, radionuclides, volatile organic compounds, and other constituents. Seven parameters exceeded the final Primary Drinking Water Standards (PDWS).

Dichloromethane (methylene chloride), a common laboratory contaminant, nitrate, and trichloroethylene exceeded PDWS most frequently. Four wells in this area currently are part of the Purge Water Containment Program due to high trichloroethylene concentrations. Carbon tetrachloride, gross alpha, lead, and tetrachloroethylene were elevated sporadically in one or more wells during the year.

Groundwater flow directions and rates in the Unconfined Aquifer were similar from quarter to quarter during the year.

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Executive Summary

The P 26 well cluster and the TBG, TNX, XSB, and YSB well series at the TNX Area are monitored quarterly for selected constituents to obtain data for future characterizations, groundwater modeling studies, and remediation activities. In addition, the wells are monitored, as requested, for other constituents as part of the Savannah River Site (SRS) Groundwater Monitoring Program.

During 1993, 34 wells of the P 26 well cluster and the TBG, TNX, XSB, and YSB well series were scheduled for analyses for alkalinity, herbicides, nitrate, pesticides, pH, radionuclides, specific conductance, total dissolved solids, toxic metals, volatile organic compounds, and other constituents. This report provides the results that exceeded final Primary Drinking Water Standards (PDWS) and SRS flagging criteria for those wells that were successfully sampled.

During the year, carbon tetrachloride, dichloromethane (methylene chloride), gross alpha, lead, nitrate, tetrachloroethylene, or trichloroethylene exceeded the final PDWS in one or more wells in the TNX Area. Trichloroethylene was detected most frequently, occurring in elevated concentrations in 11 wells during the year. Wells TBG 4, 5, and 6 and TNX 3D were part of the Purge Water Containment Program during second, third, and fourth quarters due to high concentrations of trichloroethylene. Dichloromethane, which was elevated in 10 wells during the year, is a common laboratory contaminant and was detected in some of the laboratory method blanks associated with the samples containing elevated dichloromethane.

Groundwater flow direction in the Unconfined Aquifer beneath the TNX Area was consistently to the southwest. The estimated flow rates were 1,100 ft/year, 1,200 ft/year, 1,100 ft/year, and 910 ft/year for first, second, third, and fourth quarters, respectively. Reliable estimates of flow directions and rates in the Semiconfined Aquifer could not be calculated because of the near-linear distribution of the monitoring wells.

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Introduction

The TNX Area, located in the southwest part of the Savannah River Site (SRS) (Figure 1, Appendix C), is operated by the Savannah River Technology Center, formerly known as the Savannah River Laboratory. The facility includes the TNX Burying Ground, the Old TNX Seepage Basin, and the New TNX Seepage Basin. The following description outlines important events in the TNX Area:

- The TNX Burying Ground was built in 1953 to dispose of debris resulting from the explosion of an experimental evaporator in the TNX Area earlier that year. The debris included conduit, drums, tin, and structural steel contaminated with uranyl nitrate and depleted uranium. No additional wastes were disposed of in the TNX Burying Ground after the Old Radioactive Waste Burial Ground was opened later in 1953 (Dunaway et al., 1987b).
- Between 1980 and 1984, most of the waste buried at the TNX Burying Ground was excavated and sent to the New Radioactive Waste Burial Ground. The remaining waste lies beneath asphalt, buildings, and transformer pads. An estimated 60 pounds of uranyl nitrate remains buried at the TNX Burying Ground (Dunaway et al., 1987b).
- The Old TNX Seepage Basin received process waste water between 1958 and 1980 from pilot-scale tests conducted in the TNX Area for the Defense Waste Processing Facility (DWPF) and the General Separations Area. The waste discharged to the basin included large quantities of mercury, primarily in the form of mercuric nitrate, and other heavy metals; sodium compounds; and depleted uranium and other radionuclides (Dunaway et al., 1987a).
- Discharge of waste water to the Old TNX Seepage Basin ceased in 1980, and the basin was closed in 1981. During closure, the basin wall was breached and the impounded water was drained into the adjacent wetlands. The basin was then backfilled and covered with a clay cap (Dunaway et al., 1987a).
- The New TNX Seepage Basin, constructed to replace the Old TNX Seepage Basin, operated between 1980 and 1988 (Arnett et al., 1993). While in operation, the basin received waste from pilot-scale chemical processing tests at the DWPF and the General Separations Area. The waste included nonradioactive DWPF sludge; simulated, nonradioactive salt supernate; glass frit; other processing chemicals; and laboratory sink waste water (Heffner and Exploration Resources, 1991).
- An environmental impact statement (EIS) addressing groundwater contamination caused by SRS activities was submitted for public comment in 1987 (DOE, 1987). Groundwater monitoring was initiated at the TNX Area after the first series of monitoring wells were installed in 1980. These first wells proved to be inadequate and were abandoned and replaced in 1984. Groundwater data from the replacement wells and subsequently installed monitoring wells indicated that contamination from unlined basins, process sewers, and other facilities in the

area had entered the groundwater throughout the TNX Area. Analysis of surface water samples from the swamp adjacent to the Savannah River indicated that groundwater contaminated with volatile organic compounds was outcropping in the swamp before it reached the river. Contaminants from the plume were not detected in the Savannah River.

- In 1989, a waste-site assessment report and a groundwater quality assessment and corrective action feasibility plan for the New TNX Seepage Basin was submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) for review (Cummins et al., 1990).
- A closure plan for the New TNX Seepage Basin was submitted to SCDHEC in March 1992 (Arnett et al., 1993).
- The SRS Federal Facility Agreement of November 24, 1992, which directs the comprehensive remediation of SRS, identified the TNX Burying Ground, the Old TNX Seepage Basin, the New TNX Seepage Basin, and the TNX groundwater as part of the Resource Conservation and Recovery Act/Comprehensive Environmental Response, Compensation, and Liability Act program.
- An interim-action proposed plan for the TNX groundwater unit was submitted to the U.S. Environmental Protection Agency on March 30, 1994. The plan proposes treatability and feasibility studies to evaluate the most effective and efficient method for remediating the groundwater contamination at TNX Area (WSRC, 1994).

Discussion

Groundwater Monitoring Data

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

In 1992, a variable-speed pump was installed in well TBG 4, which had a history of elevated metals. Samples from wells with variable-speed pumps are collected at a slower rate to minimize turbidity, which has been associated with elevated metals levels. Decreased aluminum and iron concentrations as well as lower turbidity values have been observed for samples from wells with variable-speed pumps.

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

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

Integrity of the Monitoring Well Network

The background, assessment, and groundwater monitoring well network at the TNX Area (Figures 2 and 3, Appendix C) has been developed over the past decade and a half as described below (EPD/EMS, 1993a):

- Monitoring wells YSB 1, 2, 3, and 4 were installed during early 1980 and abandoned during 1984.
- Monitoring wells XSB 1, 2, 3, and 4 were installed during 1980 and were abandoned between 1984 and 1988. The installation date for monitoring well XSB 5 is uncertain; however, it was abandoned in 1988.
- Monitoring wells YSB 1A, 2A, 3A, and 4A were installed during late 1983.
- Monitoring wells XSB 1A, 1B, 1D, 2D, 3A, and 4D were installed between 1984 and 1989. The installation date for well XSB 5A is uncertain.
- Background wells P 26A, 26B, and 26D were installed during the second half of 1986.
- Monitoring wells TBG 1, 3, 4, 5, 5A, 5B, 6, and 7 were installed between 1988 and 1989.
- Assessment wells TNX 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, and 12D were installed during late 1989.
- The TNX-Area network currently has 34 wells composed of the P 26 well cluster and the TBG, TNX, XSB, and YSB well series.

Well designations: Screen zone assignments for the wells in the TNX-Area network are as follows:

- Unconfined Aquifer: wells P 26B, 26D; TBG 1, 3, 4, 5, 5A, 6, 7; TNX 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, 12D; XSB 1A, 1D, 2D, 3A, 4D, 5A; YSB 1A, 2A, 3A, 4A
- Semiconfined Aquifer: wells P 26A; TBG 5B; XSB 1B

Screen zone elevations for wells TBG 5A and 5B and XSB 1A and 1B are according to Nichols (1993); screen zone elevations for the remaining wells are from EPD/EMS (1993a).

Well purging: Table 3 (Appendix D) lists the number of well volumes purged from each well during each quarter of 1993 and provides sampling codes (X, P, etc., as defined in the Appendix D front matter) that describe incomplete or unsuccessful sampling events. Incomplete or unsuccessful sampling events occurred as follows:

- Wells that went dry during purging and were revisited for sampling within 24 hours (sampling code X):

First quarter – TNX 3D, 4D, 5D, 6D; XSB 2D

Second quarter – TBG 3; TNX 4D, 5D, 6D, 7D; XSB 2D

Third quarter – TBG 3; TNX 4D, 5D, 6D, 7D; XSB 2D

Fourth quarter – TBG 3; TNX 4D, 5D, 6D, 7D; XSB 2D

- Wells that could not be sampled because of mechanical problems (sampling code P):

First quarter – P 26A; TBG 3, 4, 5, 6

Second quarter – P 26A

Third quarter – P 26A

Fourth quarter – P 26A

- Wells that could not be sampled because they were part of the Purge Water Containment Program due to high trichloroethylene concentrations:

First quarter – none

Second quarter – TBG 4, 5, 6; TNX 3D

Third quarter – TBG 4, 5, 6; TNX 3D

Fourth quarter – TBG 4, 5, 6; TNX 3D

Thus, 28 of the 34 wells were sampled and analyzed during first quarter 1993; and 29 of the 34 wells were sampled and analyzed during second, third, and fourth quarters 1993.

Analytical Results Exceeding Standards

Results for analytes that exceeded the final PDWS (see Appendix A) during 1993 are provided in Table 1 (Appendix D) and summarized below. The higher of the nitrate as nitrogen and nitrate-nitrite as nitrogen results was used as the nitrate result when both analyses were conducted on the same sample.

First Quarter 1993

- Trichloroethylene was elevated in 8 wells: TBG 1; TNX 3D, 10D, 11D; XSB 1D, 2D, 3A, 4D. The maximum trichloroethylene concentration occurred in well TNX 3D at 1,760 $\mu\text{g/L}$.
- Carbon tetrachloride was elevated in 4 wells: TBG 1; TNX 3D; XSB 1D, 2D. The maximum concentration of carbon tetrachloride was detected in well TNX 3D at 280 $\mu\text{g/L}$.
- Nitrate was elevated in 4 wells: TBG 1; TNX 3D; XSB 1A, 2D. The maximum concentration occurred in well TNX 3D at 33,200 $\mu\text{g/L}$.
- Dichloromethane (methylene chloride) was elevated in 3 wells: TNX 3D; XSB 1D, 2D. The maximum concentration of dichloromethane was found in well TNX 3D at 120 $\mu\text{g/L}$.

- Gross alpha was elevated in wells TBG 1 and TNX 3D.
- Tetrachloroethylene was elevated in well TNX 3D.

Second Quarter 1993

- Trichloroethylene was elevated in 8 wells: TBG 1, 3; TNX 8D, 10D; XSB 1D, 2D, 3A, 5A. The maximum trichloroethylene concentration occurred in well TBG 3 at 1,110 $\mu\text{g/L}$.
- Carbon tetrachloride was elevated in 4 wells: TBG 1, 3; XSB 1D, 2D. The maximum concentration of carbon tetrachloride was detected in well TBG 3 at 480 $\mu\text{g/L}$.
- Nitrate was elevated in 4 wells: TBG 1, 3; XSB 1A, 2D. The maximum concentration occurred in well TBG 1 at 17,600 $\mu\text{g/L}$.
- Dichloromethane was elevated in 3 wells: XSB 1D, 2D; TBG 5B. The maximum concentration of dichloromethane was found in wells XSB 1D and 2D at 12 $\mu\text{g/L}$.
- Tetrachloroethylene was elevated in well TBG 3.

Third Quarter 1993

- Trichloroethylene was elevated in 9 wells: TBG 1, 3; TNX 7D, 10D, 11D; XSB 1D, 2D, 3A, 5A. The maximum trichloroethylene concentration occurred in well TBG 3 at 695 $\mu\text{g/L}$.
- Nitrate was elevated in 5 wells: TBG 1, 3; XSB 1D, 2D, 3A. The maximum concentration occurred in well TBG 1 at 24,500 $\mu\text{g/L}$.
- Dichloromethane was elevated in 4 wells: P 26D; TNX 7D, 10D; XSB 1D. The maximum concentration of dichloromethane was found in well TNX 10D at 12 $\mu\text{g/L}$.
- Carbon tetrachloride was elevated in 3 wells: TBG 1, 3; XSB 1D. The maximum concentration of carbon tetrachloride was detected in well TBG 3 at 393 $\mu\text{g/L}$.
- Gross alpha was elevated in well TBG 1.
- Tetrachloroethylene was elevated in well TBG 3.

Fourth Quarter 1993

- Trichloroethylene was elevated in 8 wells: TBG 1, 3; TNX 10D, 11D; XSB 1D, 2D, 3A, 5A. The maximum trichloroethylene concentration occurred in well TBG 3 at 620 $\mu\text{g/L}$.
- Carbon tetrachloride was elevated in 4 wells: TBG 1, 3; XSB 1D, 2D. The maximum concentration of carbon tetrachloride was detected in well TBG 3 at 680 $\mu\text{g/L}$.
- Dichloromethane was elevated in 3 wells: TNX 11D; XSB 3A; YSB 1A. The maximum concentration of dichloromethane was found in well XSB 3A at 9.5 $\mu\text{g/L}$.

- Nitrate was elevated in 3 wells: TBG 1, 3; TNX 10D. The maximum concentration occurred in well TBG 3 at 19,800 $\mu\text{g/L}$.
- Gross alpha was elevated in wells TBG 1 and 3.
- Lead was elevated in well XSB 2D.
- Tetrachloroethylene was elevated in well TBG 3.

Constituents that exceeded other Flag 2 criteria (see Appendix B) during fourth quarter 1993 are summarized in Table 2 (Appendix D).

Table 3 (Appendix D) presents the maximum results for each analyte for individual wells during each quarter of the year. Table 3 also identifies the analytical laboratories that conducted the analyses and the analyses that received modifiers (which help identify laboratory accuracy and precision) or that exceeded the EPA-approved holding times during fourth quarter 1993.

Constituent results in Table 3 that appear to equal the final PDWS but are not marked in the *D* column (exceeded final PDWS or screening level) are less than the final PDWS in the database. Database results, the results that are compared to the final PDWS, have more significant digits than the results given in this report. Apparent discrepancies are due to the rounding of reported results.

The horizontal extent of carbon tetrachloride, nitrate, and trichloroethylene during second and fourth quarters 1993 is shown in Figures 4 through 15 (Appendix C). The higher of the nitrate as nitrogen and nitrate-nitrite as nitrogen results was used as the nitrate result when both analyses were conducted on the same sample.

The information on pages D-2 through D-4 of Appendix D provides definitions of the abbreviations and the modifiers used in the results tables as well as descriptions of holding times, data rounding, and data qualification practices. Appendix E gives a general assessment of the quality and useability of the data provided by EPD/EMS.

Time Series Results

Time series plots of carbon tetrachloride, field pH, gross alpha, mercury, nitrate, radium-226, radium-228, tetrachloroethylene, and trichloroethylene levels from first quarter 1990 through fourth quarter 1993 for the P 26 well cluster and the TBG, TNX, XSB, and YSB well series are shown in Appendix F. Plots for wells with results less than detection limits during this time period were not included in the appendix. General trends for these indicator parameters are as follows:

Carbon tetrachloride: Since first quarter 1990, carbon tetrachloride concentrations in wells TBG 1, 3, 4, and 6; TNX 3D and 10D; and XSB 1D and 2D have usually exceeded the final PDWS. However, concentrations in most of the remaining wells have not exceeded detection limit values during this time period.

Field pH: Field pH values for most of the wells have ranged between approximately pH 4 and pH 7 since sampling began. However, the pH in well XSB 2D has been somewhat more alkaline, ranging occasionally between pH 8 and pH 9.

Gross alpha: Gross alpha activities in wells TBG 1, 3, and 4 and TNX 3D have exceeded the final PDWS sporadically since first quarter 1993. Activities in the remaining wells have usually been below detection limit or less than the final PDWS.

Mercury: Mercury concentrations in well TBG 4 exceeded the final PDWS between first quarter 1990 and first quarter 1993; the well has not been sampled since second quarter 1993. Mercury concentrations in the remaining wells have been below detection limit or less than the final PDWS.

Nitrate: Nitrate concentrations in wells TBG 1, 3, 4, and 6; TNX 3D and 10D; and XSB 3A have frequently exceeded the final PDWS since first quarter 1990. Concentrations in the remaining wells have been below detection limit values or less than the final PDWS.

Radium-226: Groundwater samples from most of the wells have not exceeded detection limit values for radium-226 since first quarter 1990. Activities have exceeded the proposed drinking water standard of 20 pCi/L sporadically in a few wells since first quarter 1990.

Radium-228: Groundwater samples from most of the wells have not exceeded detection limit values for radium-228 since first quarter 1990. Activities have exceeded the proposed drinking water standard of 20 pCi/L sporadically in a few wells since that time period.

Tetrachloroethylene: Tetrachloroethylene concentrations have usually exceeded the final PDWS in wells TBG 3 and 4 and TNX 3D since first quarter 1990. Most of the remaining samples have not exceeded detection limit values.

Trichloroethylene: Trichloroethylene concentrations in wells TBG 1, 3, 4, 5, and 6; TNX 3D, 8D, 9D, 10D, and 11D; and XSB 1D, 2D, 3A, 4D, and 5A have usually exceeded the final PDWS since first quarter 1990. The remaining wells have exhibited concentrations that are undetectable or below the final PDWS. Wells TBG 5 and 6 have not been sampled since second quarter 1991, and wells TBG 4 and TNX 3D have not been sampled since first quarter 1993. These four wells currently are part of the Purge Water Containment Program at SRS due to unusually high concentrations of trichloroethylene.

Groundwater Flow Directions and Rates

Figures 16 through 19 (Appendix C) provide water-elevation maps for the uppermost aquifers beneath TNX Area during second and fourth quarters 1993. The maps are oriented to true north using universal transverse Mercator coordinates (UTM). Hydrographs for the TNX-Area wells are in Appendix G.

During 1993, the horizontal groundwater flow in the Unconfined Aquifer beneath the TNX Area was consistently to the southwest. The potentiometric surface in the Semiconfined Aquifer could not be contoured because of the near-linear distribution of the three wells in this aquifer.

Horizontal flow rate estimates for the groundwater beneath the TNX Area during the past four quarters are provided below.

Horizontal Groundwater Flow Rates (ft/yr) Beneath the TNX Area

Aquifer	1Q93	2Q93	3Q93	4Q93
Unconfined	1,100	1,200	1,100	910
Semiconfined	N ^a	N	N	N

^a N = Well orientation too linear to determine the flow rate.

The groundwater flow rate beneath the TNX Area is estimated using the following equation:

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

Hydraulic conductivity constants estimated for the Unconfined and Semiconfined Aquifers are 21 and 12, respectively (Nichols, 1993). The effective porosity value for the Unconfined Aquifer is 13% (Nichols, 1993); a porosity value has not been calculated for the Semiconfined Aquifer. 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. Flow rate per day is calculated to two significant figures, then multiplied by 365 and rounded to two significant figures for the flow rate per year. Flow rate estimates vary depending on the vertical gradient between wells, the size of the area under consideration, and the number of data points. The values presented here are useful as order of magnitude estimates only.

The flow rate estimate for groundwater in the Unconfined Aquifer beneath the TNX Area during second quarter 1993 was calculated as follows (Figure 16, Appendix C):

$$\frac{21}{0.13} \times \frac{22}{1,200} = 3.0 \text{ ft/day}$$

$$3.0 \text{ ft/day} \times 365 \text{ days} \approx 1,100 \text{ ft/yr}$$

The flow rate estimate for groundwater in the Unconfined Aquifer beneath the TNX Area during fourth quarter 1993 was calculated as follows (Figure 17, Appendix C):

$$\frac{21}{0.13} \times \frac{22}{1,400} = 2.5 \text{ ft/day}$$

$$2.5 \text{ ft/day} \times 365 \text{ days} \approx 910 \text{ ft/yr}$$

Upgradient vs. Downgradient Results

Wells P 26D and YSB 2A, screened in the Unconfined Aquifer, are hydraulically upgradient relative to the TNX Area. During 1993, no constituents exceeded the PDWS in well YSB 2A. Dichloromethane exceeded the PDWS during third quarter 1993 in well P 26D.

Downgradient wells TBG 1, 3, and 5B; TNX 3D, 7D, 8D, 10D, and 11D; XSB 1A, 1D, 2D, 3A, 4D, and 5A; and YSB 1A contained elevated levels of carbon tetrachloride, dichloromethane, gross alpha, lead, nitrate, tetrachloroethylene, or trichloroethylene during one or more quarters of the year.

Quality Control Results

During 1993, the following wells received duplicate and blind replicate analyses:

First quarter—TBG 5A; TNX 2D; XSB 1A

Second quarter—P 26B; TBG 5B; TNX 1D; XSB 1B; YSB 4A

Third quarter—P 26D; TBG 1; TNX 10D; XSB 1D; YSB 3A

Fourth quarter—TBG 5A; TNX 11D; XSB 3A; YSB 1A

Blind replicate analyses, representing approximately 5% of the quarter's total groundwater samples, are performed by the analytical laboratories each quarter for wells selected by EPD/EMS as part of the EPD/EMS quality assurance program (see Appendix E). Also, as part of their quality assurance procedures, the laboratories duplicate certain analyses.

The results of these analyses are used for both intralaboratory and interlaboratory comparisons. The EPD/EMS quarterly groundwater monitoring reports (EPD/EMS, 1993b, 1993c, 1993d, 1994) provide full replicate results and statistical comparisons of both blind replicate and duplicate results.

1993 Summary

During 1993, the P 26 well cluster and the TBG, TNX, XSB, and YSB well series were sampled quarterly to provide data for future characterizations, groundwater modeling studies, and remediation activities in the TNX Area. No new wells were added to the network, and no wells were abandoned.

During the year, one or more samples from 16 of the 34 wells (47%) exhibited levels of carbon tetrachloride, dichloromethane, gross alpha, lead, nitrate, tetrachloroethylene, or trichloroethylene that exceeded the final PDWS.

Elevated concentrations of trichloroethylene occurred most frequently during the year, with concentrations up to 1,760 $\mu\text{g/L}$ in well TNX 3D during first quarter 1993. Wells TBG 4, 5, and 6 and TNX 3D were part of the Purge Water Containment Program during second, third, and fourth quarters due to high concentrations of trichloroethylene.

Dichloromethane, which was elevated in 10 wells during the year, is a common laboratory contaminant. During fourth quarter, for example, two of the three samples with elevated dichloromethane had detectable quantities of dichloromethane in the associated laboratory method blanks.

No constituents exceeded the PDWS in hydraulically upgradient well YSB 2A. Dichloromethane exceeded the PDWS during third quarter 1993 in hydraulically upgradient well P 26D. This result was obtained from an improperly preserved sample, however, and therefore it may not be accurate.

The horizontal flow direction in the Unconfined Aquifer beneath the TNX Area was to the southwest (UTM coordinates) during the year. The estimated groundwater flow rate in the Unconfined Aquifer, which represents the assumed maximum contaminant migration rate, ranged from 910 ft/year to 1,200 ft/year. The near-linear arrangement of the three monitoring wells in the Semiconfined Aquifer prevented determination of reliable flow directions and rates in this aquifer.

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Appendix A – Final Primary Drinking Water Standards

Final Primary Drinking Water Standards

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

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

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- ^a This value is the drinking water standard for total trihalomethanes (the sum of bromoform, bromodichloromethane, chloroform, and dibromochloromethane).
 - ^b The standard given is for gross alpha including radium-226 but excluding radon and uranium.
 - ^c This is the screening level above which providers of public drinking water should perform analyses for specific man-made radionuclides. The standard for the total dose equivalent from all such radionuclides is 4 mrem per year.
 - ^d Analyses were conducted in 1993 for the following: PCB 1016, PCB 1221, PCB 1232, PCB 1242, PCB 1248, PCB 1254, and PCB 1260.
 - ^e For double radionuclide analyses where each separate radionuclide has its own standard, the more stringent standard is used.

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Appendix B – Flagging Criteria

Flagging Criteria

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

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

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

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

Analyte	Unit	Flag 1	Flag 2	Source ^a
Asbestos	Fibers/L	3,500,000	7,000,000	Final PDWS (EPA, 1992a)
Azobenzene	µg/L	50	100	EPA Method 625
Barium	µg/L	1,000	2,000	Final PDWS (EPA, 1992a)
Barium-140	pCi/L	4.5E+01	9E+01	Final PDWS (EPA, 1977)
Benzene	µg/L	2.5	5	Final PDWS (EPA, 1992a)
alpha-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
beta-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
delta-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
Benzidine	µg/L	250	500	EPA Method 8270
Benzo[a]anthracene	µg/L	0.05	0.1	Proposed PDWS (EPA, 1990)
Benzo[b]fluoranthene	µg/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Benzo[k]fluoranthene	µg/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Benzoic acid	µg/L	250	500	EPA Method 8270
Benzo[g,h,i]perylene	µg/L	50	100	EPA Method 8270
Benzo[a]pyrene	µg/L	0.1	0.2	Final PDWS (EPA, 1992b)
1,4-Benzoquinone	µg/L	50	100	EPA Method 8270
Benzyl alcohol	µg/L	50	100	EPA Method 8270
Beryllium	µg/L	2	4	Final PDWS (EPA, 1992b)
Beryllium-7	pCi/L	3E+03	6E+03	Final PDWS (EPA, 1977)
Bis(2-chloroethoxy) methane	µg/L	50	100	EPA Method 8270
Bis(2-chloroethyl) ether	µg/L	50	100	EPA Method 8270
Bis(2-chloroisopropyl) ether	µg/L	50	100	EPA Method 8270
Bis(chloromethyl) ether	µg/L	50	100	EPA Method 8270
Bis(2-ethylhexyl) phthalate	µg/L	3	6	Final PDWS (EPA, 1992b)
Bromide	µg/L	5,000	10,000	EPA Method 300.0
Bromodichloromethane	µg/L	50	100	Final PDWS (EPA, 1992a)
Bromoform	µg/L	50	100	Final PDWS (EPA, 1992a)
Bromomethane (Methyl bromide)	µg/L	5	10	EPA Method 8240
4-Bromophenyl phenyl ether	µg/L	50	100	EPA Method 8270
2-sec-Butyl-4,6-dinitrophenol	µg/L	3.5	7	Final PDWS (EPA, 1992b)
Butylbenzyl phthalate		No flag	No flag	Set by EPD/EMS
Cadmium	µg/L	2.5	5	Final PDWS (EPA, 1992a)
Calcium		No flag	No flag	Set by EPD/EMS
Carbon disulfide	µg/L	5	10	EPA Method 8240
Carbon tetrachloride	µg/L	2.5	5	Final PDWS (EPA, 1992a)
Carbon-14	pCi/L	1E+03	2E+03	Final PDWS (EPA, 1977)
Carbonate		No flag	No flag	Set by EPD/EMS
Cerium-141	pCi/L	1.5E+02	3E+02	Final PDWS (EPA, 1977)
Cerium-144	pCi/L	1.31E+02	2.61E+02	Proposed PDWS (EPA, 1991)
Cesium-134 ^b	pCi/L	4.07E+01	8.13E+01	Proposed PDWS (EPA, 1991)
Cesium-137	pCi/L	1E+02	2E+02	Final PDWS (EPA, 1977)
Chlordane	µg/L	1	2	Final PDWS (EPA, 1992a)
Chloride	µg/L	125,000	250,000	SDWS (EPA, 1992c)
4-Chloroaniline	µg/L	50	100	EPA Method 8270
Chlorobenzene	µg/L	50	100	Final PDWS (EPA, 1992a)
Chlorobenzilate	µg/L	50	100	EPA Method 8270
Chloroethane	µg/L	5	10	EPA Method 8240
Chloroethene (Vinyl chloride)	µg/L	1	2	Final PDWS (EPA, 1992a)
Chloroethyl vinyl ether	µg/L	5	10	EPA Method 8240
2-Chloroethyl vinyl ether	µg/L	5	10	EPA Method 8240
Chloroform	µg/L	50	100	Final PDWS (EPA, 1992a)
4-Chloro-m-cresol	µg/L	50	100	EPA Method 8270
Chloromethane (Methyl chloride)	µg/L	5	10	EPA Method 8240
2-Chloronaphthalene	µg/L	50	100	EPA Method 8240
2-Chlorophenol	µg/L	50	100	EPA Method 8270

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

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

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

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

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

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

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

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

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

^d The applied standard is for radium-226.

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Appendix C – Figures

Figure 1. Location of the TNX Area at the Savannah River Site

Figure 2. Location of the Groundwater Monitoring Wells in the Unconfined Aquifer at the TNX Area

Figure 3. Location of the Groundwater Monitoring Wells in the Semiconfined Aquifer at the TNX Area

Figure 4. Carbon Tetrachloride Concentrations in the Unconfined Aquifer at the TNX Area, Second Quarter 1993

Figure 5. Carbon Tetrachloride Concentrations in the Unconfined Aquifer at the TNX Area, Fourth Quarter 1993

Figure 6. Carbon Tetrachloride Concentrations in the Semiconfined Aquifer at the TNX Area, Second Quarter 1993

Figure 7. Carbon Tetrachloride Concentrations in the Semiconfined Aquifer at the TNX Area, Fourth Quarter 1993

Figure 8. Nitrate Concentrations in the Unconfined Aquifer at the TNX Area, Second Quarter 1993

Figure 9. Nitrate Concentrations in the Unconfined Aquifer at the TNX Area, Fourth Quarter 1993

Figure 10. Nitrate Concentrations in the Semiconfined Aquifer at the TNX Area, Second Quarter 1993

Figure 11. Nitrate Concentrations in the Semiconfined Aquifer at the TNX Area, Fourth Quarter 1993

Figure 12. Trichloroethylene Concentrations in the Unconfined Aquifer at the TNX Area, Second Quarter 1993

Figure 13. Trichloroethylene Concentrations in the Unconfined Aquifer at the TNX Area, Fourth Quarter 1993

Figure 14. Trichloroethylene Concentrations in the Semiconfined Aquifer at the TNX Area, Second Quarter 1993

Figure 15. Trichloroethylene Concentrations in the Semiconfined Aquifer at the TNX Area, Fourth Quarter 1993

Figure 16. Piezometric Surface of the Unconfined Aquifer at the TNX Area, Second Quarter 1993

Figure 17. Piezometric Surface of the Unconfined Aquifer at the TNX Area, Fourth Quarter 1993

Figure 18. Water-Elevation Map of the Semiconfined Aquifer at the TNX Area, Second Quarter 1993

Figure 19. Water-Elevation Map of the Semiconfined Aquifer at the TNX Area, Fourth Quarter 1993

Appendix D – Groundwater Monitoring Results Tables

Key to Reading the Tables

The following abbreviations may appear in the data tables:

Constituents

1,2,3,4,6,7,8-HPCDD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin
1,2,3,4,6,7,8-HPCDF	1,2,3,4,6,7,8-heptachlorodibenzo-p-furan
1,2,3,4,7,8-HXCDD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin
1,2,3,4,7,8-HXCDF	1,2,3,4,7,8-hexachlorodibenzo-p-furan
Lindane	gamma-benzene hexachloride
PCB	polychlorinated biphenyl
1,2,3,7,8-PCDD	1,2,3,7,8-pentachlorodibenzo-p-dioxin
1,2,3,7,8-PCDF	1,2,3,7,8-pentachlorodibenzo-p-furan
Sp. conductance	specific conductance
TCDD	tetrachlorodibenzo-p-dioxin
TCDF	tetrachlorodibenzo-p-furan

Laboratories

CN	Clemson Technical Center, Inc.
EM	Environmental Protection Department/ Environmental Monitoring Section (EPD/EMS) Laboratory
GE and GP	General Engineering Laboratories
SC	Savannah River Technology Center
SP	Spencer Testing Services, Inc.
TM	TMA/Eberline
WA and WS	Roy F. Weston, Inc.

Sampling Codes

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
P	inaccessibility or mechanical failure prevented sample collection and field analysis of the water
S	no water in standpipe; for water level events only
X	well went dry during purging; samples collected after well recovered

Sampling Methods

B	sample collected using an open-bucket bailer
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

E	exponential notation (e.g., 1.1E-09 = 1.1×10^{-9} = 0.0000000011)
mg/L	milligrams per liter
msl	mean sea level
MSL	million structures per liter
NTU	turbidity unit
pCi/L	picocuries per liter
pCi/mL	picocuries per milliliter
pH	pH unit
µg/L	micrograms per liter
µS/cm	microsiemens per centimeter

Other

CS	carbon steel
D	primary drinking water standard (PDWS) column in data tables
GP	groundwater protection standard column in data tables
H	holding time column in data tables
Mod	modifier column in data tables
PDWS	primary drinking water standard
PVC	polyvinyl chloride
TOC	top of casing

Holding Times

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

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

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

Data Qualification

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

<u>Result modifier</u>	<u>Definition</u>
(Blank)	Data are not qualified. Numbers should be interpreted exactly as reported.
A	Value reported is the mean of two or more determinations.
J	Value is estimated because quantitation in the sample or in associated quality control samples did not meet specifications.
L	Value is off-scale high. The actual value is not known but is known to be greater than the value shown.
M	Presence of the analyte is verified but not quantified.
R	Result was rejected because performance requirements in the sample analysis or associated quality control analyses were not met.
T	Analyte was not detected; if present, it was below the criteria for detection.
V	Analyte was detected in an associated method blank.
Y	Result was obtained from an unpreserved or improperly preserved sample. Data may not be accurate.
1	Result may be an underestimation of the true value due to analytical bias.
2	Result may be an overestimation of the true value due to analytical bias.
3	The associated result may be of poor precision (high variability) due to analytical bias.
4	Result is associated with QA results indicating matrix interference.
6	The associated result is from a reanalysis performed out of holding time due to problems with an earlier analysis.

Table 1. Maximum Levels of Constituents Exceeding the Final Primary Drinking Water Standards

Unconfined Aquifer

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>2Q93</u>	<u>3Q93</u>	<u>4Q93</u>	<u>Mod</u>
P 26D	Dichloromethane	µg/L	- ^a	-	6.1	-	
TBG 1	Carbon tetrachloride	µg/L	37	36	44	53	
	Gross alpha	pCi/L	1.7E+01	-	2.0E+01	1.8E+01	
	Nitrate as N	µg/L	NA ^b	NA	24,500	NA	
	Nitrate-nitrite as N	µg/L	16,500	17,600	16,800	17,800	
	Trichloroethylene	µg/L	8.6	12	14	15	
TBG 3	Carbon tetrachloride	µg/L	NA	480	393	680	
	Gross alpha	pCi/L	NA	-	-	2.1E+01	
	Nitrate-nitrite as N	µg/L	NA	17,500	21,600	19,800	
	Tetrachloroethylene	µg/L	NA	8.9	9.5	12	
	Trichloroethylene	µg/L	NA	1,110	695	620	
TNX 3D	Carbon tetrachloride	µg/L	280	NA	NA	NA	
	Dichloromethane	µg/L	120	NA	NA	NA	
	Gross alpha	pCi/L	4.0E+01	NA	NA	NA	
	Nitrate-nitrite as N	µg/L	33,200	NA	NA	NA	
	Tetrachloroethylene	µg/L	310	NA	NA	NA	
	Trichloroethylene	µg/L	1,760	NA	NA	NA	
TNX 7D	Dichloromethane	µg/L	-	-	11	-	
	Trichloroethylene	µg/L	-	-	8.0	-	
TNX 8D	Trichloroethylene	µg/L	-	5.1	-	-	
TNX 10D	Dichloromethane	µg/L	-	-	12	-	
	Nitrate-nitrite as N	µg/L	-	-	-	12,000	
	Trichloroethylene	µg/L	5.9	14	11	11	
TNX 11D	Dichloromethane	µg/L	-	-	-	6.8	
	Trichloroethylene	µg/L	15	-	8.1	14	
XSB 1A	Nitrate as N	µg/L	18,400	NA	NA	NA	
	Nitrate-nitrite as N	µg/L	21,600	13,500	-	-	
XSB 1D	Carbon tetrachloride	µg/L	16	18	18	24	
	Dichloromethane	µg/L	6.0	12	8.3	-	
	Nitrate-nitrite as N	µg/L	-	-	12,100	-	
	Trichloroethylene	µg/L	51	50	38	56	
XSB 2D	Carbon tetrachloride	µg/L	16	11	-	22	
	Dichloromethane	µg/L	6.5	12	-	-	
	Lead	µg/L	-	-	-	77	
	Nitrate-nitrite as N	µg/L	18,000	11,800	22,500	-	
	Trichloroethylene	µg/L	194	146	112	132	
XSB 3A	Dichloromethane	µg/L	-	-	-	9.5	V
	Nitrate-nitrite as N	µg/L	-	-	10,700	-	
	Trichloroethylene	µg/L	127	73	96	157	
XSB 4D	Trichloroethylene	µg/L	5.5	-	-	-	

Unconfined Aquifer

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>2Q93</u>	<u>3Q93</u>	<u>4Q93</u>	<u>Mod</u>
XSB 5A	Trichloroethylene	µg/L	-	75	34	8.1	
YSB 1A	Dichloromethane	µg/L	-	-	-	5.5	V

Semiconfined Aquifer

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q93</u>	<u>2Q93</u>	<u>3Q93</u>	<u>4Q93</u>
TBG 5B	Dichloromethane	µg/L	-	8.3	-	-

Note: Modifiers are for fourth quarter 1993 data only.

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

Table 2. Maximum Levels of Constituents Exceeding Other Flag 2 Criteria

Unconfined Aquifer

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>4Q93</u>	<u>Mod</u>
P 26B	Aluminum	µg/L	64	
	Silica	µg/L	9,230	
P 26D	Silica	µg/L	8,200	
TSG 1	Aluminum	µg/L	352	
	Manganese	µg/L	129	
	Silica	µg/L	13,900	
	Total inorganic carbon	µg/L	10,300	
TSG 3	Aluminum	µg/L	538	
	Manganese	µg/L	400	
	Silica	µg/L	13,600	
TSG 5A	Silica	µg/L	8,650	
TSG 7	Silica	µg/L	8,190	
TNX 1D	Silica	µg/L	12,000	
TNX 2D	Manganese	µg/L	50	
	Silica	µg/L	12,700	
TNX 4D	Aluminum	µg/L	442	
	Iron	µg/L	364	
	Silica	µg/L	11,600	
TNX 5D	Aluminum	µg/L	131	
	Iron	µg/L	316	
	Silica	µg/L	10,300	
TNX 6D	Aluminum	µg/L	181	
	Iron	µg/L	380	
	Silica	µg/L	11,600	
TNX 7D	Aluminum	µg/L	268	
	Silica	µg/L	11,400	
TNX 8D	Silica	µg/L	12,300	
	Total inorganic carbon	µg/L	10,700	
TNX 9D	Iron	µg/L	401	
	Silica	µg/L	15,300	
TNX 10D	Aluminum	µg/L	118	
	Manganese	µg/L	60	
	Silica	µg/L	11,900	
TNX 11D	Iron	µg/L	3,140	
	Silica	µg/L	16,300	
TNX 12D	Manganese	µg/L	126	
	Silica	µg/L	5,340	
	Total inorganic carbon	µg/L	10,500	

Unconfined Aquifer

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>4Q93</u>	<u>Mod</u>
XSB 1A	Silica	µg/L	8,950	
XSB 1D	Aluminum	µg/L	84	
	Silica	µg/L	10,700	
XSB 2D	Aluminum	µg/L	1,570	
	Manganese	µg/L	374	
	Silica	µg/L	10,200	
	Total inorganic carbon	µg/L	13,000	
	Total organic halogens	µg/L	90	
XSB 3A	Manganese	µg/L	64	
	Silica	µg/L	10,200	
	Total inorganic carbon	µg/L	11,700	
	Total organic halogens	µg/L	109	
XSB 4D	Silica	µg/L	9,030	
XSB 5A	Aluminum	µg/L	88	
	Silica	µg/L	6,180	
YSB 1A	Aluminum	µg/L	628	
	Iron	µg/L	1,900	
	Silica	µg/L	10,800	V
YSB 2A	Iron	µg/L	356	
	Silica	µg/L	7,890	
YSB 3A	Aluminum	µg/L	65	
	Silica	µg/L	10,100	
	Total inorganic carbon	µg/L	21,400	
YSB 4A	Silica	µg/L	8,510	

Semiconfined Aquifer

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>4Q93</u>	<u>Mod</u>
TBG 5B	Iron	µg/L	750	
	Silica	µg/L	22,800	
XSB 1B	Silica	µg/L	23,900	

Notes: These results do not include field data.

Modifiers are for fourth quarter 1993 data only.

The groundwater results are unfiltered. Thus, the results for metals are for total recoverable metals.

Flags are established by EPD/EMS and are based on PDWS, Secondary Drinking Water Standards, or method detection limits (see Appendix B).

Table 3. Groundwater Monitoring Results for Individual Wells

WELL P 26A

<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>
N72010.4 E18055.9	33.214463 °N 81.759058 °W	31.4-21.4 ft msl	154.5 ft msl	4" PVC		Semiconfined Aquifer
SAMPLE DATE		03/08/93		09/01/93	12/02/93	
FIELD DATA						
<u>Analyte</u>		<u>1Q93</u>	<u>2Q93</u>	<u>3Q93</u>	<u>4Q93</u>	<u>Unit</u>
Water elevation		122.2		118.1	117.2	ft msl
Depth to water		32.3		36.4	37.3	ft
pH						pH
Sp. conductance						µS/cm
Water temperature						°C
Alkalinity as CaCO ₃						mg/L
Turbidity						NTU
Volume purged						Well vol.
Sampling code		P	P	P	P	

WELL P 26B

<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>
N71998.2 E18060.9	33.214423 °N 81.759044 °W	81.9-71.4 ft msl	154.5 ft msl	4" PVC	S	Unconfined Aquifer
SAMPLE DATE		03/08/93	06/05/93	09/01/93	12/02/93	
FIELD DATA						
<u>Analyte</u>	<u>1Q93</u>	<u>2Q93</u>	<u>3Q93</u>	<u>4Q93</u>	<u>Unit</u>	
Water elevation	113.7	114.0	111.3	109.7	ft msl	
Depth to water	40.8	40.6	43.2	44.9	ft	
pH	6.1	6.2	6.2	6.3	pH	
Sp. conductance	71	63	67	62	µS/cm	
Water temperature	19.2	20.5	20.3	19.3	°C	
Alkalinity as CaCO ₃	17	10	18	2	mg/L	
Turbidity	5	2	1	2	NTU	
Volume purged	4.1	5.1	3.9	3.5	Well vol.	
Sampling code						

ANALYTICAL DATA

<u>H</u>	<u>Q</u>	<u>Analyte</u>	<u>1Q93</u>	<u>2Q93</u>	<u>3Q93</u>	<u>4Q93</u>	<u>Mod</u>	<u>Unit</u>	<u>Lab</u>	<u>Flag</u>
		Aluminum, total recoverable	138	45	24	64		µg/L	GE	2
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	26	14	15	12		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	30,600	16,200	13,800	8,090		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	2,220	2,420	1,900	2,200		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well P 268 continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Chloroethene (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	1.3	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	1.3E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	375	106	74	46		µg/L	GE	0
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	606	434	445	397		µg/L	GE	0
		Manganese, total recoverable	35	8.5	12	2.7		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate as nitrogen		673				µg/L		
		Nitrate-nitrite as nitrogen	740	660	580	480		µg/L	GE	0
		Nonvolatile beta	<2.0E+00	2.2E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		pH	6.4	6.4	6.2	6.4	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	815	810	963	726		µg/L	GE	0
		Radium-226		4.4E-01				pCi/L		
		Radium-228		1.7E+00				pCi/L		
		Radium, total alpha-emitting	<1.0E+00	1.7E+00	<1.0E+00	1.1E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	10,300	9,020	9,980	9,230		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	2,630	2,270	2,350	2,160		µg/L	GE	0
		Specific conductance	60	61	62	63		µS/cm	GE	0
		Sulfate	2,350	2,500	1,760	2,190		µg/L	GE	0
		1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	35,000	53,000	56,000	41,000	V	µg/L	GE	0
		Total inorganic carbon	5,420	7,900	8,230	5,320		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	<5.0	<5.0	<5.0	9.6		µg/L	GE	0
		Total phosphates (as P)	50	<50	<50	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	2.2E+00	3.4E+00	2.7E+00	2.8E+00		pCi/mL	GE	0
		Zinc, total recoverable	12	13	7.9	16		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL P 26D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71969.3 E18041.6	33.214348 °N 81.759016 °W	121.3-101.2 ft mal	154.5 ft mal	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/08/93 06/05/93 09/01/93 12/02/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	120.1	123.2	118.6	117.4	ft mal
Depth to water	34.5	31.3	35.9	37.1	ft
pH	5.7	5.6	5.6	5.8	pH
Sp. conductance	38	33	36	34	µS/cm
Water temperature	18.8	19.2	18.6	18.7	°C
Alkalinity as CaCO ₃	5	6	5	6	mg/L
Turbidity	3	2	1	2	NTU
Volume purged	35.9	28.6	26.6	23.1	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	50	23	<20	24		µg/L	GE	0
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	11	9.4	11	9.0		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	3,550	2,750	2,920	3,160		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	2,070	2,130	2,130	2,180		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	2.4	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	<1.0	6.1	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<2.0E+00	<7.0E-01	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	19	19	15	12		µg/L	GE	0
		Lead, total recoverable	<3.0	<3.0	3.4	<3.0		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	389	333	396	335		µg/L	GE	0
		Manganese, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well P 26D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Nitrate as nitrogen			580			µg/L		
		Nitrate-nitrite as nitrogen	870	770	690	540		µg/L	GE	0
		Nonvolatile beta	< 2.0E+00	< 2.0E+00	3.2E+00	< 2.0E+00		pCi/L	GE	0
•		pH	8.0	8.0	6.1	5.9	J	pH	GE	0
		Phenols	< 5.0	< 5.0	< 5.0	< 5.0		µg/L	GE	0
		Potassium, total recoverable	781	708	940	849		µg/L	GE	0
		Radium-226			1.5E+00			pCi/L		
		Radium-228			4.2E+00			pCi/L		
		Radium, total alpha-emitting	< 1.0E+00	1.0E+00	2.0E+00	< 1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Silica, total recoverable	8,960	8,640	9,190	8,200		µg/L	GE	2
		Silver, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Sodium, total recoverable	1,960	1,760	2,080	1,940		µg/L	GE	0
		Specific conductance	32	28	32	44		µS/cm	GE	0
		Sulfate	< 1,000	< 1,000	2,350	< 1,000		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tetrachloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Toluene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Total dissolved solids	24,000	20,000	40,000	29,000	V	µg/L	GE	0
		Total inorganic carbon	4,530	3,230	9,340	4,340		µg/L	GE	0
		Total organic carbon	< 1,000	< 1,000	< 1,000	< 1,000		µg/L	GE	0
		Total organic halogens	< 5.0	< 5.0	6.0	< 5.0		µg/L	GE	0
		Total phosphates (as P)	< 50	< 50	99	< 50		µg/L	GE	0
		Toxaphene	< 0.24					µg/L		
		2,4,6-TP (Silvex)	< 0.090					µg/L		
		1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Trichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tritium	1.9E+00	2.0E+00	4.0E+00	3.0E+00		pCi/mL	GE	0
		Zinc, total recoverable	< 2.0	2.9	6.8	20		µg/L	GE	0

WELL TBG 1

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71429.5 E17134.7	33.211674 °N 81.760361 °W	109.1-89.1 ft msl	151.2 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/04/93 06/03/93 09/02/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	102.2	102.0	100.8	100.7	ft msl
Depth to water	49.0	49.2	50.4	50.5	ft
pH	4.8	4.6	4.2	4.5	pH
Sp. conductance	190	205	212	183	µS/cm
Water temperature	21.3	22.2	21.6	21.1	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	0	0	0	NTU
Volume purged	4.7	6.3	8.2	4.6	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	328	306	315	352		µg/L	GE	2
		Arsenic, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0	J1	µg/L	GE	0
		Barium, total recoverable	192	183	187	204		µg/L	GE	0
		Benzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TBG 1 continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	4,610	4,250	4,290	4,520		µg/L	GE	0
	■	Carbon tetrachloride	37	36	44	53		µg/L	GE	2
		Chloride	7,190	6,520	5,500	5,500		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	1.0	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
	■	Gross alpha	1.7E + 01	7.9E + 00	2.0E + 01	1.8E + 01		pCi/L	GE	2
		Iron, total recoverable	16	<4.0	10	4.2		µg/L	GE	0
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0060					µg/L		
		Magnesium, total recoverable	4,480	4,150	4,320	4,650		µg/L	GE	0
		Manganese, total recoverable	126	117	123	129		µg/L	GE	2
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
	■	Nitrate as nitrogen			24,500			µg/L		
		Nitrate-nitrite as nitrogen	16,500	17,600	16,800	17,800		µg/L	GE	2
		Nonvolatile beta	1.1E + 01	6.9E + 00	2.1E + 01	1.2E + 01		pCi/L	GE	0
	●	pH	4.7	4.7	5.6	4.7	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	3,450	3,370	3,680	3,980		µg/L	GE	0
		Radium-226			1.3E + 01			pCi/L		
		Radium-228			6.3E + 00			pCi/L		
		Radium, total alpha-emitting	9.7E + 00	1.0E + 01	9.6E + 00	1.2E + 01		pCi/L	GE	1
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	14,500	14,400	14,100	13,900		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	15,600	16,300	14,000	14,000		µg/L	GE	0
		Specific conductance	179	175	167	177		µS/cm	GE	0
		Sulfate	<1,000	1,470	<1,000	<1,000		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	3.8	2.1	2.8	3.3		µg/L	GE	1
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	141,000	139,000	207,000	123,000		µg/L	GE	0
		Total inorganic carbon	12,600	12,600	12,400	10,300		µg/L	GE	2
		Total organic carbon	<1,000	<1,000	1,420	<1,000		µg/L	GE	0
		Total organic halogens	40	41	40	30		µg/L	GE	1
		Total phosphates (as P)	<50	<50	137	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TBG 1 continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Trichloroethylene	8.6	12	14	15		µg/L	GE	2
		Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tritium	2.0E + 00	1.2E + 00	2.9E + 00	1.9E + 00		pCi/mL	GE	0
		Zinc, total recoverable	20	18	23	17		µg/L	GE	0

WELL TBG 3

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71324.1 E17177.7	33.211511 °N 81.760033 °W	108.9-88.9 ft msl	151.2 ft msl	4" PVC		Unconfined Aquifer

SAMPLE DATE 03/03/93 06/04/93 09/03/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	105.4	105.8	104.2	103.5	ft msl
Depth to water	45.8	45.4	47.0	47.7	ft
pH		4.6	4.2	4.6	pH
Sp. conductance		187	213	211	µS/cm
Water temperature		22.8	22.2	17.8	°C
Alkalinity as CaCO ₃		0	0	0	mg/L
Turbidity		16	28	8	NTU
Volume purged		1.0	1.1	1.0	Well vol.
Sampling code	P	X	X	X	

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable		392	548	538		µg/L	GE	2
		Arsenic, total recoverable		< 2.0	< 2.0	< 2.0	J1	µg/L	GE	0
		Barium, total recoverable		122	162	172		µg/L	GE	0
		Benzene		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Bromodichloromethane		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Bromoform		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Cadmium, total recoverable		< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Calcium, total recoverable		3,530	4,500	4,590		µg/L	GE	0
		Carbon tetrachloride		480	393	680		µg/L	GE	2
		Chloride		3,870	3,600	3,580		µg/L	GE	0
		Chlorobenzene		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroethane		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroethene (Vinyl chloride)		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroform		17	15	13		µg/L	GE	0
		Chloromethane (Methyl chloride)		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chromium, total recoverable		< 4.0	< 4.0	< 4.0		µg/L	GE	0
		Dibromochloromethane		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1-Dichloroethane		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,2-Dichloroethane		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1-Dichloroethylene		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene		3.5	2.7	1.8		µg/L	GE	0
		Dichloromethane (Methylene chloride)		1.6	< 1.0	< 1.0		µg/L	GE	0
		1,2-Dichloropropane		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		cis-1,3-Dichloropropane		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		trans-1,3-Dichloropropane		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Ethylbenzene		< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Fluoride		< 100	103	113		µg/L	GE	0
		Gross alpha		1.5E + 01	1.1E + 01	2.1E + 01		pCi/L	GE	2
		Iron, total recoverable		97	150	40		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TBG 3 continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Lead, total recoverable		7.9	4.2	<3.0		µg/L	GE	0
		Magnesium, total recoverable		2,540	3,400	3,600		µg/L	GE	0
		Manganese, total recoverable		296	382	400		µg/L	GE	2
		Mercury, total recoverable		0.42	0.45	0.57		µg/L	GE	0
	■	Nitrate-nitrite as nitrogen		17,500	21,600	19,800		µg/L	GE	2
		Nonvolatile beta		9.9E+00	8.4E+00	1.3E+01		pCi/L	GE	0
•		pH		4.7	4.6	4.7	J	pH	GE	0
		Phenols		<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable		2,170	2,770	2,570		µg/L	GE	0
		Radium, total alpha-emitting		1.2E+01	1.3E+01	1.6E+01		pCi/L	GE	1
		Selenium, total recoverable		<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable		13,500	14,800	13,800		µg/L	GE	2
		Silver, total recoverable		<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable		20,600	25,300	25,300		µg/L	GE	0
		Specific conductance		162	211	225		µS/cm	GE	0
		Sulfate		2,250	2,380	1,160		µg/L	GE	0
		1,1,2,2-Tetrachloroethane		<1.0	<1.0	<1.0		µg/L	GE	0
	■	Tetrachloroethylene		8.9	9.5	12		µg/L	GE	2
		Toluene		<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids		139,000	158,000	154,000		µg/L	GE	0
		Total inorganic carbon		7,540	16,800	8,310		µg/L	GE	1
		Total organic carbon		<1,000	1,120	1,240		µg/L	GE	0
•		Total organic halogens		644	2,380	<5.0	J6	µg/L	GE	0
		Total phosphates (as P)		70	120	<50		µg/L	GE	0
		1,1,1-Trichloroethane		1.8	<1.0	1.1		µg/L	GE	0
		1,1,2-Trichloroethane		<1.0	<1.0	<1.0		µg/L	GE	0
	■	Trichloroethylene		1,110	695	620		µg/L	GE	2
		Trichlorofluoromethane		<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium		1.8E+00	2.6E+00	2.8E+00		pCi/mL	GE	0
		Zinc, total recoverable		43	39	65		µg/L	GE	0

WELL TBG 4

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71267.1 E17177.7	33.211385 °N 81.759923 °W	109.3-89.3 ft msl	151.3 ft msl	4" PVC	V	Unconfined Aquifer

SAMPLE DATE 03/03/93 09/02/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	105.1		104.1	103.3	ft msl
Depth to water	46.2		47.2	48.0	ft
pH					pH
Sp. conductance					µS/cm
Water temperature					°C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volume purged					Well vol.
Sampling code	P				

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL TBG 5

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71226.5 E17354.5	33.211584 °N 81.759379 °W	112.4-92.4 ft msl	149.4 ft msl	4" PVC	B	Unconfined Aquifer

SAMPLE DATE	03/03/93	08/31/93	12/03/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	105.7		103.9	103.1	ft msl
Depth to water	43.7		45.5	46.4	ft
pH					pH
Sp. conductance					µS/cm
Water temperature					°C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volume purged					Well vol.
Sampling code	P				

WELL TBG 5A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71216.8 E17354.8	33.211563 °N 81.759359 °W	56.2-46.2 ft msl	149.4 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/04/93	06/03/93	08/31/93	12/03/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	105.2	104.9	103.6	102.9	ft msl
Depth to water	44.2	44.5	45.8	46.6	ft
pH	5.5	5.4	5.6	5.5	pH
Sp. conductance	35	39	37	32	µS/cm
Water temperature	20.9	21.5	21.5	21.1	°C
Alkalinity as CaCO ₃	0	1	1	1	mg/L
Turbidity	1	0	1	0	NTU
Volume purged	2.8	5.2	14.6	2.7	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	39	73	<20	<20		µg/L	GE	0
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Barium, total recoverable	13	28	13	15		µg/L	WA	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	1,720	7,040	1,670	1,710		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	3,480	15,000	3,230	3,630		µg/L	WA	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

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Well TBG 5A continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	<1.0	<1.0	1.6		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	1.4E+00	<2.0E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	28	168	13	44		µg/L	WA	0
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	406	1,120	423	405		µg/L	GE	0
		Manganese, total recoverable	16	13	11	9.8		µg/L	WA	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate as nitrogen	668			703		µg/L	WA	0
		Nitrate-nitrite as nitrogen	760	1,160	680	610		µg/L	GE	0
		Nonvolatile beta	2.7E+00	2.0E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		pH	5.7	5.6	5.6	5.9	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	1,120	1,130	895	908		µg/L	WA	0
		Radium-226	3.8E-01					pCi/L		
		Radium-228	2.5E+00					pCi/L		
		Radium, total alpha-emitting	<1.0E+00	<1.0E+00	1.0E+00	<1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	9,050	10,600	9,210	8,650		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	2,650	15,500	2,730	2,530		µg/L	GE	0
		Specific conductance	37	30	32	33		µS/cm	GE	0
		Sulfate	2,340	8,990	2,090	2,110		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	31,000	35,000	27,000	29,000		µg/L	GE	0
		Total inorganic carbon	5,570	4,990	4,800	5,690		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Total phosphates (as P)	216	<50	360	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	3.7E+00	1.1E+00	3.3E+00	3.2E+00		pCi/mL	GE	0
		Zinc, total recoverable	15	15	13	31		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL TBG 5B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71206.8 E17348.8	33.211531 °N 81.759355 °W	80.0-70.0 ft msl	150 ft msl	4" PVC	S	Semiconfined Aquifer

SAMPLE DATE 03/04/93 06/03/93 08/31/93 12/03/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	117.5	115.2	113.1	112.5	ft msl
Depth to water	32.6	34.9	36.9	37.5	ft
pH	5.5	5.3	5.4	5.2	pH
Sp. conductance	35	39	38	33	µS/cm
Water temperature	20.5	21.3	20.7	20.3	°C
Alkalinity as CaCO ₃	1	1	1	1	mg/L
Turbidity	3	2	5	4	NTU
Volume purged	4.5	3.0	7.1	6.5	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	33	30	94	38		µg/L	GE	1
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Barium, total recoverable	17	17	19	18		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	1,760	1,910	1,770	1,760		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	1,340	1,750	1,670	1,650		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	8.5	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	8.3	<1.0	2.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<7.0E-01	<2.0E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	711	760	892	750		µg/L	GE	2
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	652	660	693	644		µg/L	GE	0
		Manganese, total recoverable	14	15	15	14		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.
 ● = exceeded holding time for fourth quarter 1993.
 ■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TBG 5B continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Nitrate as nitrogen		247				µg/L		
		Nitrate-nitrite as nitrogen	<50	220	<50	<50		µg/L	GE	0
		Nonvolatile beta	<2.0E+00	3.1E+00	4.7E+00	<2.0E+00		pCi/L	GE	0
•		pH	5.4	5.5	5.4	3.7	J	pH	GE	1
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	1,010	1,020	1,250	1,220		µg/L	GE	0
		Radium-226		<1.6E-01				pCi/L		
		Radium-228		3.6E+00				pCi/L		
		Radium, total alpha-emitting	1.0E+00	2.1E+00	1.0E+00	<1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	23,200	23,300	24,600	22,800		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	1,200	1,230	1,330	1,210		µg/L	GE	0
		Specific conductance	34	32	32	42		µS/cm	GE	0
		Sulfate	6,500	7,130	7,350	7,510		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	42,000	51,000	37,000	48,000		µg/L	GE	0
		Total inorganic carbon	5,460	4,600	4,650	4,730		µg/L	GE	0
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	<5.0	12	<5.0	5.0		µg/L	GE	0
		Total phosphates (as P)	<50	<50	60	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	<7.0E-01	<1.4E-01	<7.0E-01	<7.0E-01		pCi/mL	GE	0
		Zinc, total recoverable	12	17	10	29		µg/L	GE	0

WELL TBG 6

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71482.3 E17290.5	33.212045 °N 81.760044 °W	109.1-89.1 ft msl	148.1 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/03/93 09/02/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	105.1		103.8	103.2	ft msl
Depth to water	43.0		44.3	44.9	ft
pH					pH
Sp. conductance					µS/cm
Water temperature					°C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volume purged					Well vol.
Sampling code	P				

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL TBG 7

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71298.5 E17548.1	33.212060 °N 81.759010 °W	104.7-84.7 ft msl	146.8 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/04/93	06/02/93	08/31/93	12/01/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	108.8	109.1	107.0	105.6	ft msl
Depth to water	38.0	37.7	39.8	41.2	ft
pH	6.9	6.7	6.9	6.9	pH
Sp. conductance	48	52	49	42	µS/cm
Water temperature	21.8	22.2	21.8	21.0	°C
Alkalinity as CaCO ₃	6	5	5	4	mg/L
Turbidity	1	1	2	1	NTU
Volume purged	6.6	7.4	12.8	21.5	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	31	<20	<20	<20		µg/L	GE	0
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	9.7	9.3	10	9.1		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	3,970	3,700	3,610	3,460		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	2,430	3,170	2,730	2,750		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Copper, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	<1.0	2.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060	<1.0	<1.0	<1.0		µg/L	GE	0
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<2.0E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	12	7.1	9.4	4.2		µg/L	GE	0
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0050	<1.0	<1.0	<1.0		µg/L	GE	0
		Magnesium, total recoverable	469	440	475	432		µg/L	GE	0
		Manganese, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.
 ● = exceeded holding time for fourth quarter 1993.
 ■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TBG 7 continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Methoxychlor	<0.50					µg/L		
		Nitrate-nitrite as nitrogen	1,200	1,160	1,200	1,200		µg/L	GE	0
		Nonvolatile beta	<2.0E+00	<2.0E+00	<2.0E+00	2.6E+00		µCi/L	GE	0
•		pH	6.1	5.9	5.9	5.8	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	909	895	1,050	938		µg/L	GE	0
		Radium, total alpha-emitting	1.2E+00	<1.0E+00	1.0E+00	1.6E+00		µCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	8,250	8,360	8,580	8,190		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	2,820	2,750	3,090	2,920		µg/L	GE	0
		Specific conductance	48	40	43	43		µS/cm	GE	0
		Sulfate	2,270	2,110	1,810	1,920		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	2.9	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	44,000	32,000	26,000	50,000		µg/L	GE	0
		Total inorganic carbon	7,420	5,850	7,790	3,420		µg/L	GE	0
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	<5.0	<5.0	<5.0	6.7		µg/L	GE	0
		Total phosphates (as P)	<50	<50	130	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	3.6	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	1.9E+00	1.7E+00	2.6E+00	2.6E+00		µCi/mL	GE	0
		Zinc, total recoverable	2.7	<2.0	<2.0	20		µg/L	GE	0

WELL TNX 1D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71613.5 E16699.6	33.211370 °N 81.761853 °W	99.6-79.6 ft msl	156.5 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/04/93 06/07/93 09/02/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	100.7	100.0	99.2	99.3	ft msl
Depth to water	55.8	56.5	57.3	57.2	ft
pH	6.3	5.8	5.6	6.0	pH
Sp. conductance	40	38	39	34	µS/cm
Water temperature	20.0	20.4	20.6	17.5	°C
Alkalinity as CaCO ₃	9	5	5	4	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	4.0	4.5	4.3	3.6	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<20	40	<20	<20		µg/L	GE	0
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	11	9.4	9.3	9.7		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 1D continued

ANALYTICAL DATA

H	Q	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	3,140	2,300	2,390	2,490		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	2,380	2,300	2,320	2,370		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	5.8	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	2.8E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	18	78	28	32		µg/L	GE	0
		Lead, total recoverable	<3.0	3.2	<3.0	3.4		µg/L	GE	0
		Lindane	<0.0060					µg/L		
		Magnesium, total recoverable	405	330	356	359		µg/L	GE	0
		Manganese, total recoverable	19	18	17	18		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate as nitrogen		249				µg/L		
		Nitrate-nitrite as nitrogen	<50	80	120	110		µg/L	GE	0
		Nonvolatile beta	2.2E+00	4.3E+00	<2.0E+00	2.7E+00		pCi/L	GE	0
		pH	6.3	6.0	5.7	6.1	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	<500	599	594	540		µg/L	GE	0
		Radium-226		<1.5E-01				pCi/L		
		Radium-228		1.7E+00				pCi/L		
		Radium, total alpha-emitting	<1.0E+00	<1.0E+00	<1.0E+00	<1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	12,100	12,300	12,600	12,000		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	3,340	3,190	3,380	3,230		µg/L	GE	0
		Specific conductance	39	32	184	37		µS/cm	GE	0
		Sulfate	1,820	2,020	1,640	1,860		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	28,000	52,000	39,000	23,000		µg/L	GE	0
		Total inorganic carbon	5,710	5,400	7,130	1,920		µg/L	GE	0
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	5.8	5.6	<5.0	<5.0		µg/L	GE	0
		Total phosphates (as P)	<50	64	<50	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 1D continued

ANALYTICAL DATA

H	Q	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Tritium	< 7.0E-01	1.8E-01	< 7.0E-01	< 7.0E-01		pCi/mL	GE	0
		Zinc, total recoverable	5.4	13	3.5	25		µg/L	GE	0

WELL TNX 2D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71452.0 E16788.2	33.211157 °N 81.761306 °W	102.8-82.8 ft msl	155.1 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/03/93 06/03/93 09/01/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	100.6	100.1	99.2	99.1	ft msl
Depth to water	54.6	55.1	56.0	56.0	ft
pH	5.6	5.7	5.4	5.7	pH
Sp. conductance	50	57	60	50	µS/cm
Water temperature	20.7	22.0	21.7	17.9	°C
Alkalinity as CaCO ₃	6	3	5	5	mg/L
Turbidity	2	1	1	1	NTU
Volume purged	6.7	5.1	3.4	3.3	Well vol.
Sampling code					

ANALYTICAL DATA

H	Q	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	43	< 20	20	< 20		µg/L	GE	0
		Arsenic, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0	J1	µg/L	GE	0
		Barium, total recoverable	19	21	28	28		µg/L	GE	0
		Benzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Bromoform	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Cadmium, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Calcium, total recoverable	3,060	2,960	3,210	2,910		µg/L	GE	0
		Carbon tetrachloride	2.6	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloride	3,420	3,590	3,960	3,990		µg/L	GE	0
		Chlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroethene (Vinyl chloride)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroform	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chromium, total recoverable	4.7	< 4.0	< 4.0	< 4.0		µg/L	GE	0
		Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,2-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1-Dichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	< 0.30					µg/L		
		1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Endrin	< 0.0060					µg/L		
		Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Fluoride	< 100	< 100	< 100	< 100		µg/L	GE	0
		Gross alpha	1.5E + 00	2.0E + 00	2.1E + 00	< 2.0E + 00		pCi/L	GE	0
		Iron, total recoverable	380	9.8	34	17		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

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Well TNX 2D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	588	591	838	846		µg/L	GE	0
		Manganese, total recoverable	46	44	59	50		µg/L	GE	2
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate as nitrogen	1,170					µg/L		
		Nitrate-nitrite as nitrogen	1,340	1,450	1,430	1,650		µg/L	GE	0
		Nonvolatile beta	3.1E+00	<2.0E+00	<2.0E+00	3.2E+00		pCi/L	GE	0
•		pH	5.8	5.7	5.6	5.7	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	840	635	959	833		µg/L	GE	0
		Radium-226	5.7E-01					pCi/L		
		Radium-228	2.0E+00					pCi/L		
		Radium, total alpha-emitting	1.5E+00	1.2E+00	1.5E+00	<1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	14,000	13,400	13,800	12,700		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	4,350	4,290	4,870	4,220		µg/L	GE	0
		Specific conductance	44	48	54	52		µS/cm	GE	0
		Sulfate	2,270	2,080	1,680	1,640		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	2.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	54,000	43,000	53,000	33,000		µg/L	GE	0
		Total inorganic carbon	10,600	7,230	8,050	5,650		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	8.7	<5.0	<5.0	<5.0		µg/L	GE	0
		Total phosphates (as P)	419	<50	<50	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	2.7	1.9	3.0	2.3		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	2.5E+00	1.2E+00	2.1E+00	2.4E+00		pCi/mL	GE	0
		Zinc, total recoverable	12	8.6	8.2	33		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

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WELL TNX 3D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71236.7 E17043.1	33.211098 °N 81.760217 °W	104.9-84.9 ft msl	154.3 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/04/93	09/01/93	12/01/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	101.6		100.1	99.8	ft msl
Depth to water	52.7		54.2	54.5	ft
pH	4.8				pH
Sp. conductance	384				µS/cm
Water temperature	18.6				°C
Alkalinity as CaCO ₃	0				mg/L
Turbidity	76				NTU
Volume purged	0.9				Well vol.
Sampling code	X				

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	1,870					µg/L		
		Arsenic, total recoverable	< 2.0					µg/L		
		Barium, total recoverable	234					µg/L		
		Benzene	< 100					µg/L		
		Bromodichloromethane	< 100					µg/L		
		Bromoform	< 100					µg/L		
		Bromomethane (Methyl bromide)	< 100					µg/L		
		Cadmium, total recoverable	< 2.0					µg/L		
		Calcium, total recoverable	10,200					µg/L		
		Carbon tetrachloride	280					µg/L		
		Chloride	7,570					µg/L		
		Chlorobenzene	< 100					µg/L		
		Chloroethane	< 100					µg/L		
		Chloroethane (Vinyl chloride)	< 100					µg/L		
		2-Chloroethyl vinyl ether	< 100					µg/L		
		Chloroform	< 100					µg/L		
		Chloromethane (Methyl chloride)	< 100					µg/L		
		Chromium, total recoverable	< 4.0					µg/L		
		Dibromochloromethane	< 100					µg/L		
		1,1-Dichloroethane	< 100					µg/L		
		1,2-Dichloroethane	< 100					µg/L		
		1,1-Dichloroethylene	< 100					µg/L		
		trans-1,2-Dichloroethylene	< 100					µg/L		
		Dichloromethane (Methylene chloride)	120					µg/L		
		2,4-Dichlorophenoxyacetic acid	< 0.30					µg/L		
		1,2-Dichloropropane	< 100					µg/L		
		cis-1,3-Dichloropropene	< 100					µg/L		
		trans-1,3-Dichloropropene	< 100					µg/L		
		Endrin	< 0.030					µg/L		
		Ethylbenzene	< 100					µg/L		
		Fluoride	195					µg/L		
		Gross alpha	4.0E + 01					pCi/L		
		Iron, total recoverable	334					µg/L		
		Lead, total recoverable	8.2					µg/L		
		Lindane	< 0.025					µg/L		
		Magnesium, total recoverable	5,660					µg/L		
		Manganese, total recoverable	229					µg/L		
		Mercury, total recoverable	0.97					µg/L		
		Methoxychlor	< 2.5					µg/L		

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

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Well TNX 3D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Nitrate-nitrite as nitrogen	33,200					µg/L		
		Nonvolatile beta	2.8E+01					pCi/L		
		pH	4.9					pH		
		Phenols	<5.0					µg/L		
		Potassium, total recoverable	2,810					µg/L		
		Radium, total alpha-emitting	1.2E+01					pCi/L		
		Selenium, total recoverable	<2.0					µg/L		
		Silica, total recoverable	10,900					µg/L		
		Silver, total recoverable	<2.0					µg/L		
		Sodium, total recoverable	35,700					µg/L		
		Specific conductance	325					µS/cm		
		Sulfate	1,020					µg/L		
		1,1,2,2-Tetrachloroethane	<100					µg/L		
		Tetrachloroethylene	310					µg/L		
		Toluene	<100					µg/L		
		Total dissolved solids	230,000					µg/L		
		Total inorganic carbon	11,100					µg/L		
		Total organic carbon	2,180					µg/L		
		Total organic halogens	1,040					µg/L		
		Total phosphates (as P)	<50					µg/L		
		Toxaphene	<1.2					µg/L		
		2,4,6-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<100					µg/L		
		1,1,2-Trichloroethane	<100					µg/L		
		Trichloroethylene	1,760					µg/L		
		Trichlorofluoromethane	<100					µg/L		
		Tritium	2.3E+00					pCi/mL		
		Zinc, total recoverable	35					µg/L		

WELL TNX 4D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71002.7 E17223.0	33.210875 °N 81.759290 °W	105.5-85.5 ft msl	149.8 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/04/93 06/03/93 09/02/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	105.6	106.0	104.3	103.0	ft msl
Depth to water	44.3	43.8	45.6	46.8	ft
pH	5.4	5.1	4.8	5.4	pH
Sp. conductance	41	47	46	45	µS/cm
Water temperature	18.3	21.2	21.0	14.8	°C
Alkalinity as CaCO ₃	1	1	0	2	mg/L
Turbidity	57	58	32	38	NTU
Volume purged	0.8	1.0	0.9	0.8	Well vol.
Sampling code	X	X	X	X	

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	362	244	503	442		µg/L	GE	2
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	10.0	9.6	12	15		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

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Well TNX 4D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	1,930	2,050	2,230	2,420		µg/L	GE	0
		Carbon tetrachloride	1.7	<1.0	<1.0	2.3		µg/L	GE	0
		Chloride	3,600	3,920	3,630	3,330		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	133	126	164	171		µg/L	GE	0
		Gross alpha	5.0E+00	3.3E+00	3.6E+00	4.3E+00		pCi/L	GE	0
		Iron, total recoverable	372	285	792	364		µg/L	GE	2
		Lead, total recoverable	<3.0	<3.0	<3.0	4.1		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	472	464	514	603		µg/L	GE	0
		Manganese, total recoverable	21	21	27	36		µg/L	GE	1
		Mercury, total recoverable	<0.20	<0.20	<0.20	0.26		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate-nitrite as nitrogen	1,450	1,540	1,390	2,060		µg/L	GE	0
		Nonvolatile beta	6.0E+00	4.8E+00	3.3E+00	3.6E+00		pCi/L	GE	0
		pH	5.7	5.6	5.9	5.8	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	816	736	915	999		µg/L	GE	0
		Radium, total alpha-emitting	2.8E+00	2.3E+00	1.0E+00	2.7E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	12,100	11,900	12,600	11,600		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	2,860	2,780	2,970	3,350		µg/L	GE	0
		Specific conductance	39	32	39	45		µS/cm	GE	0
		Sulfate	<1,000	1,030	1,010	1,060		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	2.2		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	22,000	37,000	48,000	48,000		µg/L	GE	0
		Total inorganic carbon	3,140	3,360	3,590	3,440		µg/L	GE	0
		Total organic carbon	<1,000	1,100	2,140	<1,000		µg/L	GE	0
		Total organic halogens	5.5	<5.0	5.7	<5.0		µg/L	GE	0
		Total phosphates (as P)	480	440	460	720		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	1.9	1.9	1.3	2.4		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	3.9E+00	3.3E+00	4.7E+00	5.1E+00		pCi/mL	GE	0
		Zinc, total recoverable	20	16	19	45		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL TNX 5D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70995.3 E17363.7	33.211088 °N 81.758905 °W	108.5-88.5 ft msf	149.3 ft msf	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/04/93 06/03/93 09/02/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	108.2	108.5	106.2	104.8	ft msf
Depth to water	41.1	40.8	43.1	44.5	ft
pH	5.9	5.6	5.0	5.4	pH
Sp. conductance	139	143	142	140	µS/cm
Water temperature	18.7	21.4	21.5	15.1	°C
Alkalinity as CaCO ₃	2	7	1	4	mg/L
Turbidity	4	11	6	3	NTU
Volume purged	0.7	0.5	0.2	0.7	Well vol.
Sampling code	X	X	X	X	

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	66	< 20	85	131		µg/L	GE	2
		Arsenic, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0	J1	µg/L	GE	0
		Barium, total recoverable	30	12	32	33		µg/L	GE	0
		Benzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Bromoform	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Cadmium, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Calcium, total recoverable	6,630	1,580	6,510	7,070		µg/L	GE	0
		Carbon tetrachloride	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloride	12,900	3,440	17,800	18,000		µg/L	GE	0
		Chlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroethene (Vinyl chloride)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroform	2.6	3.5	2.1	1.8		µg/L	GE	0
		Chloromethane (Methyl chloride)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chromium, total recoverable	< 4.0	< 4.0	< 4.0	< 4.0		µg/L	GE	0
		Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,2-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1-Dichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	< 0.30					µg/L		
		1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Endrin	< 0.0060					µg/L		
		Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Fluoride	109	111	< 100	< 100		µg/L	GE	0
		Gross alpha	2.3E+00	< 2.0E+00	< 2.0E+00	2.8E+00		pCi/L	GE	0
		Iron, total recoverable	265	13	305	316		µg/L	GE	2
		Lead, total recoverable	< 3.0	< 3.0	< 3.0	< 3.0		µg/L	GE	0
		Lindane	< 0.0050					µg/L		
		Magnesium, total recoverable	1,170	382	1,070	1,130		µg/L	GE	0
		Manganese, total recoverable	14	11	15	14		µg/L	GE	0
		Mercury, total recoverable	< 0.20	0.20	< 0.20	0.38		µg/L	GE	0
		Methoxychlor	< 0.50					µg/L		

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 5D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Nitrate-nitrite as nitrogen	4,800	4,500	1,320	2,900		µg/L	GE	0
		Nonvolatile beta	4.1E+00	<2.0E+00	<2.0E+00	2.2E+00		pCl/L	GE	0
•		pH	5.7	5.9	5.6	5.7	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	1,180	703	1,320	1,410		µg/L	GE	0
		Radium, total alpha-emitting	1.7E+00	1.5E+00	1.4E+00	2.6E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	10,600	8,770	10,500	10,300		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	14,200	2,540	18,000	17,000		µg/L	GE	0
		Specific conductance	129	130	145	146		µS/cm	GE	0
		Sulfate	8,290	8,840	8,900	8,800		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	90,000	93,000	102,000	90,000		µg/L	GE	0
		Total inorganic carbon	13,800	8,180	9,250	9,720		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	1,120	<1,000		µg/L	GE	0
		Total organic halogens	16	<5.0	<5.0	11		µg/L	GE	0
		Total phosphates (as P)	130	190	90	80		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,6-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	1.2E+00	3.0E+00	1.7E+00	1.7E+00		pCi/mL	GE	0
		Zinc, total recoverable	21	10	18	33		µg/L	GE	0

WELL TNX 6D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70°17.6 E17428.7	30°21'00" N 81.758195 °W	106.65.6 ft msl.	150.6	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/04/93	06/03/93	09/02/93	12/01/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	109.3	110.0	106.8	105.1	ft msl
Depth to water	41.2	40.6	43.7	45.4	ft
pH	5.8	5.1	5.1	5.6	pH
Sp. conductance	255	251	239	233	µS/cm
Water temperature	18.8	22.6	21.3	14.2	°C
Alkalinity as CaCO ₃	6	0	1	9	mg/L
Turbidity	9	5	8	12	NTU
Volume purged	0.8	0.8	0.7	0.7	Well vol.
Sampling code	X	X	X	X	

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	47	41	65	181		µg/L	GE	2
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	54	43	28	28		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 6D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Cadmium, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Calcium, total recoverable	9,320	8,160	10,200	14,200		µg/L	GE	0
		Carbon tetrachloride	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloride	29,500	31,300	28,300	17,700		µg/L	GE	0
		Chlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chloroform	3.8	3.3	2.3	1.6		µg/L	GE	0
		Chloromethane (Methyl chloride)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Chromium, total recoverable	< 4.0	< 4.0	< 4.0	< 4.0		µg/L	GE	0
		Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,2-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1-Dichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	< 0.30					µg/L		
		1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Endrin	< 0.0060					µg/L		
		Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Fluoride	< 100	< 100	110	154		µg/L	GE	0
		Gross alpha	3.7E + 00	2.2E + 00	3.5E + 00	4.3E + 00		pCi/L	GE	0
		Iron, total recoverable	157	133	231	380		µg/L	GE	2
		Lead, total recoverable	3.6	3.9	< 3.0	< 3.0		µg/L	GE	0
		Lindane	< 0.0050					µg/L		
		Magnesium, total recoverable	2,230	1,770	1,540	1,600		µg/L	GE	0
		Manganese, total recoverable	27	21	30	36		µg/L	GE	1
		Mercury, total recoverable	0.21	< 0.20	0.23	0.26		µg/L	GE	0
		Methoxychlor	< 0.50					µg/L		
		Nitrate-nitrite as nitrogen	9,600	9,800	9,400	7,450		µg/L	GE	1
		Nonvolatile beta	4.3E + 00	3.1E + 00	3.2E + 00	< 2.0E + 00		pCi/L	GE	0
		pH	5.6	5.6	5.6	5.8	J	pH	GE	0
		Phenols	< 5.0	< 5.0	< 5.0	< 5.0		µg/L	GE	0
		Potassium, total recoverable	1,970	1,500	1,490	1,460		µg/L	GE	0
		Radium, total alpha-emitting	3.1E + 00	1.8E + 00	1.6E + 00	1.8E + 00		pCi/L	GE	0
		Selenium, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Silica, total recoverable	9,600	8,790	9,270	11,600		µg/L	GE	2
		Silver, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Sodium, total recoverable	28,700	31,100	32,700	18,100		µg/L	GE	0
		Specific conductance	222	220	239	197		µS/cm	GE	0
		Sulfate	7,200	9,220	13,800	30,000		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tetrachloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Toluene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Total dissolved solids	147,000	160,000	158,000	120,000		µg/L	GE	0
		Total inorganic carbon	10,900	11,100	19,000	7,660		µg/L	GE	1
		Total organic carbon	< 1,000	< 1,000	2,800	< 1,000		µg/L	GE	0
		Total organic halogens	15	8.8	7.5	7.3		µg/L	GE	0
		Total phosphates (as P)	100	80	160	180		µg/L	GE	0
		Toxaphene	< 0.24					µg/L		
		2,4,5-TP (Silvex)	< 0.090					µg/L		
		1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Trichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tritium	< 7.0E-01	< 7.0E-01	7.0E-01	1.2E + 00		pCi/mL	GE	0
		Zinc, total recoverable	17	14	16	32		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL TNX 7D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71738.1 E17080.6	33.212267 °N 81.761093 °W	103.6-83.6 ft msl	150.9 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/04/93	06/04/93	09/03/93	12/02/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	102.5	102.1	101.0	101.0	ft msl
Depth to water	48.4	48.8	49.9	49.9	ft
pH	5.7	5.5	5.5	5.7	pH
Sp. conductance	56	60	53	46	µS/cm
Water temperature	20.1	20.6	21.5	15.7	°C
Alkalinity as CaCO ₃	8	7	10	6	mg/L
Turbidity	1	3	17	8	NTU
Volume purged		1.6	1.1	1.1	Well vol.
Sampling code		X	X	X	

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	37	135	634	268		µg/L	GE	2
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	20	20	40	20		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	3,400	2,900	2,690	2,580		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	1,380	1,890	8,320	2,100		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	2.0	11	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<2.0E+00	6.4E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	76	108	657	163		µg/L	GE	1
		Lead, total recoverable	<3.0	3.5	13	6.6		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	592	494	783	518		µg/L	GE	0
		Manganese, total recoverable	3.4	6.0	53	14		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 7D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Nitrate as nitrogen			8,280			µg/L		
		Nitrate-nitrite as nitrogen	150	350	9,000	320		µg/L	GE	0
		Nonvolatile beta	<2.0E+00	<2.0E+00	5.0E+00	2.7E+00		pCl/L	GE	0
•		pH	5.9	5.9	6.1	5.9	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	1,100	1,160	1,030	1,180		µg/L	GE	0
		Radium-226			4.9E-01			pCl/L		
		Radium-228			1.8E+00			pCl/L		
		Radium, total alpha-emitting	<1.0E+00	1.2E+00	1.2E+00	1.1E+00		pCl/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	12,400	11,600	12,300	11,400		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	5,270	5,200	20,300	4,990		µg/L	GE	0
		Specific conductance	55	45	142	50		µS/cm	GE	0
		Sulfate	7,510	7,390	10,200	5,480		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	49,000	30,000	131,000	37,000	V	µg/L	GE	0
		Total inorganic carbon	7,730	5,910	13,800	5,840		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	1,320	<1,000		µg/L	GE	0
		Total organic halogens	6.2	<5.0	12	<5.0		µg/L	GE	0
		Total phosphates (as P)	<50	<50	101	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,6-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	2.4	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	<1.0	<1.0	8.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	<7.0E-01	<7.0E-01	2.9E+00	2.3E+00		pCl/mL	GE	0
		Zinc, total recoverable	8.7	27	48	25		µg/L	GE	0

WELL TNX 8D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70591.9 E16168.3	33.206244 °N 81.761264 °W	94.0-74.0 ft msl	100.3 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/08/93	06/04/93	09/03/93	12/02/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	95.3	93.9	93.1	93.6	ft msl
Depth to water	5.1	6.4	7.2	6.7	ft
pH	6.0	5.4	5.3	5.7	pH
Sp. conductance	114	124	122	117	µS/cm
Water temperature	15.0	18.8	19.9	17.9	°C
Alkalinity as CaCO ₃	7	5	6	4	mg/L
Turbidity	2	2	4	2	NTU
Volume purged	22.0	21.9	18.0	16.9	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	42	<20	42	23		µg/L	GE	0
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	64	55	54	60		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 8D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	4,800	4,870	4,930	5,160		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	6,270	5,990	7,240	8,300		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	1.8	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<2.0E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	367	200	479	151		µg/L	GE	1
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	1,210	1,040	1,020	1,150		µg/L	GE	0
		Manganese, total recoverable	23	14	11	13		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate-nitrite as nitrogen	4,600	3,700	2,900	2,960		µg/L	GE	0
		Nonvolatile beta	<2.0E+00	<2.0E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		pH	5.7	5.7	5.8	5.7	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	1,040	1,180	1,370	1,420		µg/L	GE	0
		Radium, total alpha-emitting	<1.0E+00	<1.0E+00	<1.0E+00	<1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	11,900	11,700	12,500	12,300		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	13,400	12,900	13,400	14,800		µg/L	GE	0
		Specific conductance	106	99	109	114		µS/cm	GE	0
		Sulfate	8,390	11,200	12,600	12,500		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	81,000	73,000	78,000	84,000	V	µg/L	GE	0
		Total inorganic carbon	10,300	11,400	7,260	10,700		µg/L	GE	2
		Total organic carbon	<1,000	<1,000	7,240	1,060		µg/L	GE	0
		Total organic halogens	<5.0	<5.0	11	<5.0		µg/L	GE	0
		Total phosphates (as P)	<50	<50	<50	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	2.1	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	4.5	5.1	3.5	2.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	1.3E+00	1.4E+00	1.5E+00	1.9E+00		pCi/mL	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 8D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Zinc, total recoverable	4.1	3.8	<2.0	18		µg/L	GE	0

WELL TNX 9D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70791.4 E16145.8	33.206648 °N 81.781711 °W	95.4-75.4 ft ml	101.7 ft ml	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/08/93 06/04/93 09/03/93 12/02/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	95.1	93.7	93.0	93.5	ft ml
Depth to water	6.6	6.0	6.7	6.3	ft
pH	5.9	5.2	5.0	5.5	pH
Sp. conductance	102	146	126	111	µS/cm
Water temperature	17.1	18.0	19.1	18.3	°C
Alkalinity as CaCO ₃	3	1	1	3	mg/L
Turbidity	1	1	2	1	NTU
Volume purged	13.2	18.0	14.5	29.8	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	28	21	32	36		µg/L	GE	1
		Arsenic, total recoverable	<2.0	4.3	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	23	27	22	26		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	4,650	6,050	5,090	4,870		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	3,630	4,270	3,430	3,550		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	1.7	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<2.0E+00	<2.0E+00	2.1E+00		pCi/L	GE	0
		Iron, total recoverable	901	678	519	401		µg/L	GE	2
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 9D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	924	1,040	894	888		µg/L	GE	0
		Manganese, total recoverable	23	21	17	16		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate-nitrite as nitrogen	830	850	880	900		µg/L	GE	0
		Nonvolatile beta	<2.0E+00	2.9E+00	2.5E+00	<2.0E+00		pCl/L	GE	0
●		pH	8.5	8.6	8.6	8.2	J	pH	GE	0
		Phenole	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	939	1,190	1,150	1,170		µg/L	GE	0
		Radium, total alpha-emitting	1.6E+00	1.6E+00	1.1E+00	1.7E+00		pCl/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	19,200	15,100	15,900	15,300		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	10,400	13,800	12,900	13,000		µg/L	GE	0
		Specific conductance	92	122	112	108		µS/cm	GE	0
		Sulfate	22,300	37,400	34,200	27,900		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	66,000	66,000	76,000	76,000	V	µg/L	GE	0
		Total inorganic carbon	7,940	6,400	6,480	6,850		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	1,730	<1,000		µg/L	GE	0
		Total organic halogens	6.5	18	5.4	<5.0		µg/L	GE	0
		Total phosphates (as P)	<50	<50	<50	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	2.1	1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	<7.0E-01	3.9E+00	1.2E+00	1.1E+00		pCl/mL	GE	0
		Zinc, total recoverable	12	3.9	<2.0	12		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL TNX 10D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70999.3 E16166.7	33.209142 °N 81.762060 °W	97.0-77.0 ft msl	102.3 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/08/93	06/04/93	09/03/93	12/02/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	95.3	93.6	93.0	93.4	ft msl
Depth to water	7.0	6.7	9.3	8.9	ft
pH	5.4	4.9	4.5	4.8	pH
Sp. conductance	163	153	153	161	µS/cm
Water temperature	13.7	17.9	19.0	18.7	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	7	5	3	2	NTU
Volume purged	36.9	36.8	28.1	25.9	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	152	83	87	116		µg/L	GE	2
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	130	62	40	39		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	4,760	2,550	2,430	2,750		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	17,600	5,900	8,290	6,210		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	4.8	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	1.6	12	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0050					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	2.4E+00	6.0E+00	7.2E+00		pCi/L	GE	0
		Iron, total recoverable	128	64	61	26		µg/L	GE	0
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	2,250	959	778	883		µg/L	GE	0
		Manganese, total recoverable	25	51	53	60		µg/L	GE	2
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 100 continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Nitrate as nitrogen			8,740			µg/L		
■		Nitrate-nitrite as nitrogen	2,620	9,400	8,900	12,000		µg/L	GE	2
•		Nonvolatile beta	< 2.0E+00	3.6E+00	8.0E+00	< 2.0E+00		pCi/L	GE	0
		pH	5.1	5.5	5.0	5.1	J	pH	GE	0
		Phenols	< 5.0	< 5.0	< 5.0	< 5.0		µg/L	GE	0
		Potassium, total recoverable	< 500	828	1,120	1,210		µg/L	GE	0
		Radium-226			6.7E-01			pCi/L		
		Radium-228			9.0E-01			pCi/L		
		Radium, total alpha-emitting	< 1.0E+00	1.1E+00	< 1.0E+00	1.8E+00		pCi/L	GE	0
		Selenium, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Silica, total recoverable	26,100	12,400	11,900	11,900		µg/L	GE	2
		Silver, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Sodium, total recoverable	19,800	20,000	20,400	24,300		µg/L	GE	0
		Specific conductance	150	140	145	156		µS/cm	GE	0
		Sulfate	22,300	10,200	10,600	8,850		µg/L	GE	0
		1,1,1,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tetrachloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Toluene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Total dissolved solids	109,000	90,000	122,000	120,000	V	µg/L	GE	0
		Total inorganic carbon	16,200	3,870	12,000	8,230		µg/L	GE	1
		Total organic carbon	2,460	< 1,000	1,430	< 1,000		µg/L	GE	0
		Total organic halogens	17	< 5.0	14	< 5.0		µg/L	GE	0
		Total phosphates (as P)	< 50	< 50	106	< 50		µg/L	GE	0
		Toxaphene	< 0.24					µg/L		
		2,4,6-TP (Silvex)	< 0.090					µg/L		
		1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
■		Trichloroethylene	5.9	14	11	11		µg/L	GE	2
		Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tridium	2.1E+00	1.7E+00	3.4E+00	2.4E+00		pCi/mL	GE	0
		Zinc, total recoverable	< 2.0	5.7	19	21		µg/L	GE	0

WELL TNX 11D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71199.3 E16105.5	33.209582 °N 81.762452 °W	93.2-73.2 ft msl	39.8 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/06/93	06/04/93	09/03/93	12/02/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	95.1	93.5	93.1	93.3	f. msl
Depth to water	4.6	6.3	6.7	6.5	ft
pH	5.2	4.9	4.8	5.1	pH
Sp. conductance	61	62	57	51	µS/cm
Water temperature	18.3	18.7	19.3	19.4	°C
Alkalinity as CaCO ₃	0	0	2	0	mg/L
Turbidity	3	4	2	3	NTU
Volume purged	40.0	28.5	34.8	38.8	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	40	< 20	23	33	J3	µg/L	WA	1
		Arsenic, total recoverable	4.3	3.7	4.5	49		µg/L	WA	1
		Barium, total recoverable	30	26	26	26		µg/L	WA	0
		Benzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

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2 of 4

Well TNX 11D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	3,560	3,230	3,110	3,100		µg/L	GE	0
		Carbon tetrachloride	2.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	2,590	2,600	2,490	4,320		µg/L	WA	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
■		Dichloromethane (Methylene chloride)	<1.0	1.7	<1.0	6.8		µg/L	WA	2
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<2.0E+00	<2.0E+00	2.3E+00		pCi/L	TM	0
		Iron, total recoverable	348	354	410	3,140		µg/L	WA	2
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0060					µg/L		
		Magnesium, total recoverable	782	671	679	684		µg/L	GE	0
		Manganese, total recoverable	25	22	21	20		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate as nitrogen				520		µg/L	WA	0
		Nitrate-nitrite as nitrogen	780	490	340	440		µg/L	GE	0
		Nonvolatile beta	2.8E+00	<2.0E+00	2.5E+00	6.8E+00		pCi/L	TM	0
•		pH	5.1	5.2	5.1	5.2	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	1,010	921	1,070	1,150		µg/L	GE	0
		Radium-226				1.8E+00		pCi/L	TM	0
		Radium-228				2.2E+00		pCi/L	TM	0
		Radium, total alpha-emitting	1.1E+00	1.5E+00	<1.0E+00	1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	16,500	16,000	16,500	16,300		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	3,600	3,080	3,120	3,160		µg/L	GE	0
		Specific conductance	52	50	50	61		µS/cm	WA	0
		Sulfate	12,900	13,400	12,800	12,100		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	2.4	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	36,000	43,000	36,000	53,000	V	µg/L	WA	0
		Total inorganic carbon	4,510	3,040	5,540	5,990		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	5.7	11	<5.0	12		µg/L	WA	0
		Total phosphates (as P)	<50	<50	50	104		µg/L	WA	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 11D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
■		Trichloroethylene	15	4.0	8.1	14		µg/L	WA	2
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	1.6E+00	1.0E+00	1.6E+00	2.3E+00		pCi/mL	TM	0
		Zinc, total recoverable	2.3	2.1	<2.0	18		µg/L	GE	0

WELL TNX 12D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71598.3 E16176.3	33.210481 °N 81.763199 °W	93.1-73.1 ft msl	99.2 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/08/93	06/04/93	09/03/93	12/02/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	95.8	94.8	94.2	94.6	ft msl
Depth to water	3.4	4.6	5.1	4.6	ft
pH	6.8	5.9	5.7	6.1	pH
Sp. conductance	66	80	77	72	µS/cm
Water temperature	18.3	18.3	19.8	19.2	°C
Alkalinity as CaCO ₃	15	18	19	23	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	8.7	11.8	11.4	20.1	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<20	<20	<20	<20		µg/L	GE	0
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	27	26	27	28		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	5,200	5,480	5,770	6,160		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	1,850	1,550	1,840	1,580		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	1.6	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well TNX 12D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Gross alpha	< 2.0E+00	< 2.0E+00	< 2.0E+00	< 2.0E+00		pCi/L	GE	0
		Iron, total recoverable	32	19	14	11		µg/L	GE	0
		Lead, total recoverable	< 3.0	< 3.0	< 3.0	< 3.0		µg/L	GE	0
		Lindane	< 0.0050					µg/L		
		Magnesium, total recoverable	1,570	1,600	1,750	1,920		µg/L	GE	0
		Manganese, total recoverable	50	73	108	126		µg/L	GE	2
		Mercury, total recoverable	< 0.20	< 0.20	< 0.20	< 0.20		µg/L	GE	0
		Methoxychlor	< 0.50					µg/L		
		Nitrate-nitrite as nitrogen	150	< 50	< 50	430		µg/L	GE	0
		Nonvolatile beta	2.5E+00	< 2.0E+00	3.1E+00	< 2.0E+00		pCi/L	GE	0
•		pH	6.2	6.3	6.4	6.1	J	pH	GE	0
		Phenols	< 5.0	< 5.0	< 5.0	< 5.0		µg/L	GE	0
		Potassium, total recoverable	2,210	2,420	2,470	2,550		µg/L	GE	0
		Radium, total alpha-emitting	1.4E+00	< 1.0E+00	< 1.0E+00	1.1E+00		pCi/L	GE	0
		Selenium, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Silica, total recoverable	6,010	5,120	5,340	5,340		µg/L	GE	2
		Silver, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Sodium, total recoverable	2,980	2,920	3,090	3,220		µg/L	GE	0
		Specific conductance	60	60	69	73		µS/cm	GE	0
		Sulfate	5,100	4,470	3,850	4,420		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tetrachloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Toluene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Total dissolved solids	42,000	32,000	29,000	47,000	V	µg/L	GE	0
		Total inorganic carbon	4,400	7,030	11,100	10,500		µg/L	GE	2
		Total organic carbon	< 1,000	< 1,000	< 1,000	< 1,000		µg/L	GE	0
		Total organic halogens	< 5.0	< 5.0	< 5.0	< 5.0		µg/L	GE	0
		Total phosphates (as P)	80	< 50	80	< 50		µg/L	GE	0
		Toxaphene	< 0.24					µg/L		
		2,4,5-TP (Silvex)	< 0.090					µg/L		
		1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Trichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tritium	< 7.0E-01	< 7.0E-01	< 7.0E-01	< 7.0E-01		pCi/mL	GE	0
		Zinc, total recoverable	< 2.0	< 2.0	< 2.0	15		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL XSB 1A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71105.4 E16883.0	33.210546 °N 81.760383 °W	53.6-43.6 ft msl	156 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/05/93 06/04/93 09/01/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	100.2	99.7	98.8	98.8	ft msl
Depth to water	55.8	56.3	57.2	57.2	ft
pH	5.4	5.2	5.4	5.4	pH
Sp. conductance	207	171	138	103	µS/cm
Water temperature	20.1	21.1	21.1	20.5	°C
Alkalinity as CaCO ₃	1	1	4	5	mg/L
Turbidity	0	1	0	0	NTU
Volume purged	10.9	4.8	7.0	3.6	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	44	<20	<20	<20		µg/L	GE	0
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	29	18	12	12		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	3,740	2,070	1,280	1,280		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	5,020	5,500	5,220	5,810		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	3.0E + 00	<2.0E + 00	2.0E + 00	<2.0E + 00		pCi/L	GE	0
		Iron, total recoverable	46	10	7.1	28		µg/L	GE	0
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	861	497	329	319		µg/L	GE	0
		Manganese, total recoverable	22	14	9.4	9.5		µg/L	GE	0
		Mercury, total recoverable	1.4	0.92	0.43	0.32		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well XSB 1A continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Nitrate as nitrogen	18,400					µg/L		
		Nitrate-nitrite as nitrogen	21,600					µg/L	GE	0
		Nonvolatile beta	3.8E+00	< 2.0E+00	< 2.0E+00	2.2E+00		pCi/L	GE	0
•		pH	5.5	5.6	5.5	5.6	J	pH	GE	0
		Phenols	< 5.0	< 5.0	< 5.0	< 5.0		µg/L	GE	0
		Potassium, total recoverable	1,230	758	661	606		µg/L	GE	0
		Radium-226	8.2E-01					pCi/L		
		Radium-228	3.8E+00					pCi/L		
		Radium, total alpha-emitting	2.8E+00	1.9E+00	1.1E+00	1.8E+00		pCi/L	GE	0
		Selenium, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Silica, total recoverable	10,400	9,950	9,940	8,950		µg/L	GE	2
		Silver, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Sodium, total recoverable	33,600	26,700	23,800	17,200		µg/L	GE	0
		Specific conductance	196	174	123	103		µS/cm	GE	0
		Sulfate	2,880	4,310	7,630	7,530		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tetrachloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Toluene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Total dissolved solids	179,000	128,000	107,000	79,000		µg/L	GE	0
		Total inorganic carbon	14,100	6,860	15,600	8,690		µg/L	GE	1
		Total organic carbon	< 1,000	< 1,000	< 1,000	< 1,000		µg/L	GE	0
		Total organic halogens	8.9	< 5.0	< 5.0	< 5.0		µg/L	GE	0
		Total phosphates (as P)	< 50	< 50	< 50	< 50		µg/L	GE	0
		Toxaphene	< 0.24					µg/L		
		2,4,5-TP (Silvex)	< 0.090					µg/L		
		1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Trichloroethylene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0
		Tritium	3.3E+00	2.0E+00	2.7E+00	3.1E+00		pCi/mL	GE	0
		Zinc, total recoverable	8.6	2.4	< 2.0	21		µg/L	GE	0

WELL XSB 1B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71105.0 E16872.9	33.210529 °N 81.760409 °W	74.6-84.6 ft msl	155.9 ft msl	4" PVC	S	Semiconfined Aquifer

SAMPLE DATE	03/05/93	06/04/93	09/01/93	12/01/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	106.4	102.8	100.9	101.0	ft msl
Depth to water	49.5	53.1	55.0	54.9	ft
pH	5.6	5.5	5.4	5.7	pH
Sp. conductance	38	44	41	35	µS/cm
Water temperature	20.0	21.0	20.7	20.1	°C
Alkalinity as CaCO ₃	3	2	2	3	mg/L
Turbidity	1	1	4	4	NTU
Volume purged	6.5	8.1	9.1	7.0	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	20	33	38	37		µg/L	GE	1
		Arsenic, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0	J1	µg/L	GE	0
		Barium, total recoverable	22	23	22	20		µg/L	GE	0
		Benzene	< 1.0	< 1.0	< 1.0	< 1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well XSB 1B continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	2,440	2,510	2,330	2,210		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	1,360	1,760	1,530	1,580		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	2.6	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	1.7	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	9.0E-01	<2.0E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	368	873	885	868		µg/L	GE	2
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	635	614	622	602		µg/L	GE	0
		Manganese, total recoverable	17	17	16	15		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate as nitrogen		158				µg/L		
		Nitrate-nitrite as nitrogen	<50	<50	<50	<50		µg/L	GE	0
		Nonvolatile beta	<2.0E+00	2.8E+00	4.5E+00	<2.0E+00		pCi/L	GE	0
		pH	5.6	5.7	5.4	5.7	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	1,360	1,340	1,400	1,370		µg/L	GE	0
		Radium-226		2.2E-01				pCi/L		
		Radium-228		6.3E+00				pCi/L		
		Radium, total alpha-emitting	<1.0E+00	1.8E+00	<1.0E+00	<1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	26,100	24,800	25,600	23,900		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	1,460	1,430	1,450	1,360		µg/L	GE	0
		Specific conductance	29	38	35	34		µS/cm	GE	0
		Sulfate	6,710	6,990	6,650	6,420		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	55,000	49,000	49,000	44,000		µg/L	GE	0
		Total inorganic carbon	4,730	5,700	6,790	4,640		µg/L	GE	0
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	<5.0	17	5.0	<5.0		µg/L	GE	0
		Total phosphates (as P)	<50	<50	280	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well XSB 1B continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Trichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	<7.0E-01	<1.4E-01	<7.0E-01	<7.0E-01		pCi/mL	GE	0
		Zinc, total recoverable	7.4	11	5.5	25		µg/L	GE	0

WELL XSB 1D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71104.8 E16893.5	33.210562 °N 81.760354 °W	107.9-87.9 ft msl	156 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/05/93	06/04/93	09/01/93	12/01/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	106.5	100.2	99.2	99.1	ft msl
Depth to water	49.5	55.8	56.8	56.9	ft
pH	5.3	4.8	4.8	4.9	pH
Sp. conductance	80	90	90	70	µS/cm
Water temperature	21.2	22.0	21.6	21.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	0	0	0	NTU
Volume purged	6.6	17.3	49.9	16.8	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	77	86	104	84		µg/L	GE	2
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	38	43	47	36		µg/L	GE	0
		Benzene	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	2,900	3,000	2,920	2,210		µg/L	GE	0
■		Carbon tetrachloride	16	18	18	24		µg/L	GE	2
		Chloride	2,920	3,400	3,820	4,210		µg/L	GE	0
		Chlorobenzene	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	6.0	12	8.3	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<5.0	<5.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0

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Well XSB 1D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Gross alpha	< 2.0E + 00	3.6E + 00	3.9E + 00	3.8E + 00		pCi/L	GE	0
		Iron, total recoverable	13	6.1	20	7.0		µg/L	GE	0
		Lead, total recoverable	< 3.0	< 3.0	< 3.0	< 3.0		µg/L	GE	0
		Lindane	< 0.0050					µg/L		
		Magnesium, total recoverable	1,070	1,180	1,370	1,080		µg/L	GE	0
		Manganese, total recoverable	31	34	36	31		µg/L	GE	1
		Mercury, total recoverable	< 0.20	< 0.20	< 0.20	< 0.20		µg/L	GE	0
		Methoxychlor	< 0.50					µg/L		
		Nitrate as nitrogen			5,920			µg/L		
		Nitrate-nitrite as nitrogen	5,950	6,350	12,100	3,450		µg/L	GE	0
		Nonvolatile beta	2.3E + 00	3.3E + 00	6.6E + 00	< 2.0E + 00		pCi/L	GE	0
•		pH	5.3	5.2	5.0	5.2	J	pH	GE	0
		Phenole	< 5.0	< 5.0	< 5.0	< 5.0		µg/L	GE	0
		Potassium, total recoverable	1,410	1,470	1,560	1,260		µg/L	GE	0
		Radium-226			1.3E + 00			pCi/L		
		Radium-228			1.1E + 00			pCi/L		
		Radium, total alpha-emitting	1.9E + 00	1.5E + 00	2.7E + 00	< 1.0E + 00		pCi/L	GE	0
		Selenium, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Silica, total recoverable	11,600	10,500	11,200	10,700		µg/L	GE	2
		Silver, total recoverable	< 2.0	< 2.0	< 2.0	< 2.0		µg/L	GE	0
		Sodium, total recoverable	7,570	6,710	7,550	7,130		µg/L	GE	0
		Specific conductance	65	70	81	71		µS/cm	GE	0
		Sulfate	2,550	2,820	3,590	3,300		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	< 5.0	< 5.0	< 1.0	< 1.0		µg/L	GE	0
		Tetrachloroethylene	< 5.0	< 5.0	3.4	1.8		µg/L	GE	0
		Toluene	< 5.0	< 5.0	< 1.0	< 1.0		µg/L	GE	0
		Total dissolved solids	63,000	58,000	135,000	48,000		µg/L	GE	0
		Total inorganic carbon	6,230	5,330	8,540	7,160		µg/L	GE	1
		Total organic carbon	< 1,000	< 1,000	< 1,000	< 1,000		µg/L	GE	0
		Total organic halogens	24	35	47	50		µg/L	GE	1
		Total phosphates (as P)	< 50	< 50	130	< 50		µg/L	GE	0
		Toxaphene	< 0.24					µg/L		
		2,4,5-TP (Silvex)	< 0.090					µg/L		
		1,1,1-Trichloroethane	< 5.0	< 5.0	< 1.0	< 1.0		µg/L	GE	0
		1,1,2-Trichloroethane	< 5.0	< 5.0	< 1.0	< 1.0		µg/L	GE	0
■		Trichloroethylene	51	50	38	56		µg/L	GE	2
		Trichlorofluoromethane	< 5.0	< 5.0	< 1.0	< 1.0		µg/L	GE	0
		Tritium	4.1E + 00	4.3E + 00	6.6E + 00	3.7E + 00		pCi/mL	GE	0
		Zinc, total recoverable	7.8	7.9	16	21		µg/L	GE	0

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• = exceeded holding time for fourth quarter 1993.

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WELL XSB 2D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71086.0 E16823.1	33.210406 °N 81.760503 °W	104.0-84.0 ft msl	154.8 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/05/93 06/04/93 09/03/93 11/30/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	100.3	99.9	98.8	98.8	ft msl
Depth to water	54.5	54.9	56.0	56.0	ft
pH	6.9	6.8	6.9	7.1	pH
Sp. conductance	386	302	379	284	µS/cm
Water temperature	18.5	21.7	22.8	19.5	°C
Alkalinity as CaCO ₃	100	66	55	85	mg/L
Turbidity	7	6	8	5	NTU
Volume purged	0.8	0.9	0.9	0.8	Well vol.
Sampling code	X	X	X	X	

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	1,410	376	848	1,570		µg/L	GE	2
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	167	79	143	151		µg/L	GE	0
		Benzene	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Bromoform	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Cadmium, total recoverable	<4.0	<2.0	<2.0	<4.0		µg/L	GE	0
		Calcium, total recoverable	130,000	40,500	37,000	226,000		µg/L	GE	0
■		Carbon tetrachloride	18	11	<5.0	22		µg/L	GE	2
		Chloride	6,740	7,570	7,180	5,330		µg/L	GE	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Chloroethane	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Chloroform	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Chromium, total recoverable	<8.0	<4.0	<4.0	<80		µg/L	GE	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	6.5	12	<5.0	<5.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Endrin	<0.0080					µg/L		
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	5.7E+00	5.4E+00	4.2E+00	2.8E+00		pCi/L	GE	0
		Iron, total recoverable	45	61	78	249		µg/L	GE	1
■		Lead, total recoverable	49	14	14	77		µg/L	GE	2
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	3,420	1,820	3,100	2,990		µg/L	GE	0
		Manganese, total recoverable	631	228	105	374		µg/L	GE	2
		Mercury, total recoverable	0.89	0.48	<0.20	1.4		µg/L	GE	1
		Methoxychlor	<0.50					µg/L		

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

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Well XSB 2D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Nitrate-nitrite as nitrogen	18,000	11,800	22,500	6,850		µg/L	GE	1
		Nonvolatile beta	4.2E+00	3.6E+00	3.9E+00	3.8E+00		pCi/L	GE	0
•		pH	7.1	7.4	7.2	7.2	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	2,930	2,450	2,650	<10,000		µg/L	GE	0
		Radium, total alpha-emitting	3.9E+00	3.1E+00	3.7E+00	1.8E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	11,800	9,650	11,000	10,200		µg/L	GE	2
		Silver, total recoverable	<4.0	<2.0	<2.0	<40		µg/L	GE	0
		Sodium, total recoverable	22,000	16,800	33,900	15,600		µg/L	GE	0
		Specific conductance	371	300	374	296		µS/cm	GE	1
		Sulfate	2,380	2,410	1,690	2,400		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Toluene	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Total dissolved solids	285,000	205,000	259,000	109,000		µg/L	GE	0
		Total inorganic carbon	16,400	7,950	10,300	13,000		µg/L	GE	2
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	98	145	65	90		µg/L	GE	2
		Total phosphates (as P)	<50	<50	<50	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
■		Trichloroethylene	194	148	112	132		µg/L	GE	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Tritium	2.1E+00	2.3E+00	2.9E+00	3.2E+00		pCi/mL	GE	0
		Zinc, total recoverable	174	43	37	172		µg/L	GE	0

WELL XSB 3A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70915.3	33.210156 °N		157 ft msl	PVC	S	Unconfined Aquifer
E16901.3	81.759966 °W					

SAMPLE DATE	03/05/93	06/03/93	09/01/93	11/29/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	101.4	101.1	100.0	99.9	ft msl
Depth to water	55.6	55.9	57.0	57.1	ft
pH	5.5	5.5	5.3	5.4	pH
Sp. conductance	85	96	150	134	µS/cm
Water temperature	20.0	20.9	20.9	19.0	°C
Alkalinity as CaCO ₃	4	4	2	3	mg/L
Turbidity	0	2	0	0	NTU
Volume purged					Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	51	106	42	40		µg/L	GE	1
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	14	15	28	25		µg/L	WA	0
		Benzene	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Bromodichloromethane	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Bromoform	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<10	<1.0	<1.0	<5.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

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Well XSB 3A continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	4,760	4,770	7,350	6,750		µg/L	WA	0
		Carbon tetrachloride	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Chloride	4,160	5,870	5,710	9,420		µg/L	WA	0
		Chlorobenzene	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Chloroethane	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Chloroform	<10	<1.0	<1.0	1.7	J	µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		1,1-Dichloroethane	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		1,2-Dichloroethane	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		1,1-Dichloroethylene	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<10	<1.0	<1.0	<5.0		µg/L	GE	0
■		Dichloromethane (Methylene chloride)	<10	1.4	<1.0	9.5	V	µg/L	WA	2
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	3.5E+00	3.7E+00	3.6E+00	7.2E+00		pCi/L	TM	0
		Iron, total recoverable	5.8	43	9.9	20		µg/L	WA	0
		Lead, total recoverable	<3.0	4.7	<3.0	3.0	J3	µg/L	WA	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	1,010	1,100	1,760	1,680		µg/L	WA	0
		Manganese, total recoverable	29	28	41	64		µg/L	WA	2
		Mercury, total recoverable	0.28	0.26	1.1	0.84		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate as nitrogen				7,850		µg/L	WA	1
		Nitrate-nitrite as nitrogen	5,500	4,700	10,700	6,900		µg/L	GE	1
		Nonvolatile beta	2.7E+00	2.2E+00	2.4E+00	8.0E+00		pCi/L	TM	0
•		pH	5.8	5.6	5.6	5.4	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	893	1,040	1,810	1,700		µg/L	GE	0
		Radium-226				1.5E+00		pCi/L	TM	0
		Radium-228				4.1E+00		pCi/L	TM	0
		Radium, total alpha-emitting	1.1E+00	1.3E+00	2.4E+00	2.5E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	2.6	<2.0	<2.0	J1	µg/L	GE	0
		Silica, total recoverable	10,500	9,930	10,800	10,200		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	9,250	8,140	15,100	14,700		µg/L	GE	0
		Specific conductance	75	85	138	133		µS/cm	WA	0
		Sulfate	3,840	4,630	3,730	4,570		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Tetrachloroethylene	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Toluene	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Total dissolved solids	74,000	69,000	126,000	100,000	V	µg/L	WA	0
		Total inorganic carbon	4,640	7,100	10,800	11,700		µg/L	GE	2
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	57	56	75	109		µg/L	WA	2
		Total phosphates (as P)	50	70	90	122		µg/L	WA	0
		Toxaphene	<0.24					µg/L		
		2,4,6-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		1,1,2-Trichloroethane	<10	<1.0	<1.0	<5.0		µg/L	GE	0
■		Trichloroethylene	127	73	96	157		µg/L	WA	2
		Trichlorofluoromethane	<10	<1.0	<1.0	<5.0		µg/L	GE	0
		Tritium	9.1E+00	8.5E+00	1.0E+01	7.4E+00		pCi/mL	TM	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well XSB 3A continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Zinc, total recoverable	2.3	2.3	<2.0	20		µg/L	GE	0

WELL XSB 4D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70997.9 E16826.2	33.210216 °N 81.760324 °W	103.9-83.9 ft msl	154.9 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE	03/05/93	06/03/93	09/02/93	11/30/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	100.2	99.9	98.8	98.7	ft msl
Depth to water	54.7	55.0	56.1	56.2	ft
pH	5.3	5.4	5.0	5.1	pH
Sp. conductance	138	87	81	94	µS/cm
Water temperature	20.3	21.7	20.8	20.0	°C
Alkalinity as CaCO ₃	1	1	0	1	mg/L
Turbidity	1	2	0	0	NTU
Volume purged	5.7	8.6	12.9	12.4	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	59	43	32	35		µg/L	GE	1
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	41	25	33	42		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodifluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	4,890	2,740	3,670	4,780		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	7,770	5,310	6,270	8,550		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	<1.0	<1.0	<1.0	JV	µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	4.2E + 00	2.0E + 00	3.6E + 00	4.2E + 00		pCi/L	GE	0
		Iron, total recoverable	7.2	7.4	7.9	9.0		µg/L	GE	0
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well XSB 4D continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	1,270	748	396	1,280		µg/L	GE	0
		Manganese, total recoverable	43	23	23	27		µg/L	GE	1
		Mercury, total recoverable	0.28	<0.20	<0.20	0.24		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nitrate-nitrite as nitrogen	8,500	3,550	2,900	3,300		µg/L	GE	0
		Nonvolatile beta	5.4E+00	3.0E+00	2.0E+00	3.2E+00		pCl/L	GE	0
•		pH	5.4	5.4	5.3	5.5	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	1,560	874	1,250	1,330		µg/L	GE	0
		Radium, total alpha-emitting	2.0E+00	2.0E+00	1.4E+00	3.2E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	10,000	9,180	9,250	9,030		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	15,900	8,030	6,340	8,550		µg/L	GE	0
		Specific conductance	110	72	99	93		µS/cm	GE	0
		Sulfate	4,660	4,980	4,760	4,600		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	92,000	52,000	52,000	58,000		µg/L	GE	0
		Total inorganic carbon	8,390	7,040	9,600	8,440		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	7.6	<5.0	<5.0	<5.0		µg/L	GE	0
		Total phosphates (as P)	<50	<50	<50	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	5.5	4.4	3.4	3.8		µg/L	GE	1
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	1.5E+00	1.9E+00	2.7E+00	2.1E+00		pCi/mL	GE	0
		Zinc, total recoverable	10	6.0	5.2	27		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL XSB 5A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70956.3 E16703.7	33.209924 °N 81.760565 °W		112 ft msl	PVC	S	Unconfined Aquifer

SAMPLE DATE	03/05/93	06/05/93	09/07/93	11/29/93
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FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	99.0	98.2	97.4	97.4	ft msl
Depth to water	13.0	13.8	14.6	14.6	ft
pH	4.9	4.8	4.6	4.9	pH
Sp. conductance	111	127	128	137	µS/cm
Water temperature	18.8	19.7	19.9	19.1	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	1	2	1	1	NTU
Volume purged	5.2	7.8	17.2	6.3	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	58	86	74	88		µg/L	GE	2
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Berium, total recoverable	8.5	10	9.3	11		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	3,800	5,120	4,890	7,070		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	7,770	7,910	9,340	11,200		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	1.1	1.4	1.1	2.1		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	1.4	2.2	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	4.0E+00	8.4E+00	6.3E+00	9.9E+00		pCi/L	GE	1
		Iron, total recoverable	98	70	55	57		µg/L	GE	0
		Lead, total recoverable	12	9.1	14	7.2	J2	µg/L	GE	0
		Lindane	<0.0060					µg/L		
		Magnesium, total recoverable	468	656	668	940		µg/L	GE	0
		Manganese, total recoverable	8.9	7.8	6.8	7.5		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	0.24		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well XSB 5A continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Nitrate-nitrite as nitrogen	4,600	6,400	5,200	5,800		µg/L	GE	1
		Nonvolatile beta	<2.0E+00	3.3E+00	<2.0E+00	5.8E+00		pCi/L	GE	0
•		pH	5.1	5.0	5.0	4.9	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	1,150	1,290	1,310	1,650		µg/L	GE	0
		Radium, total alpha-emitting	2.5E+00	2.5E+00	2.3E+00	2.2E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Silica, total recoverable	5,890	5,190	5,650	6,180		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	13,500	13,000	12,800	14,000		µg/L	GE	0
		Specific conductance	92	110	114	130		µS/cm	GE	0
		Sulfate	11,000	10,800	10,600	8,020		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	71,000	80,000	64,000	86,000		µg/L	GE	0
		Total inorganic carbon	6,680	6,260	12,200	7,250		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	1,400	<1,000		µg/L	GE	0
		Total organic halogens	<5.0	46	15	<5.0		µg/L	GE	0
		Total phosphates (as P)	50	<50	80	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,6-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
■		Trichloroethylene	2.2	75	34	8.1		µg/L	GE	2
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	1.3E+00	3.4E+00	3.5E+00	2.3E+00		pCi/mL	GE	0
		Zinc, total recoverable	16	7.5	<2.0	22		µg/L	GE	0

WELL YSB 1A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71162.2 E17806.8	33.212184 °N 81.758069 °W	128.4-98.4 ft msl	145.5 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/08/93 06/02/93 08/31/93 11/30/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	122.7	122.5	120.0	118.0	ft msl
Depth to water	22.8	23.0	25.5	27.5	ft
pH	5.7	5.4	5.9	5.8	pH
Sp. conductance	36	37	38	33	µS/cm
Water temperature	21.2	19.5	20.6	21.1	°C
Alkalinity as CaCO ₃	2	3	2	3	mg/L
Turbidity	3	5	3	2	NTU
Volume purged	10.8	19.2	20.9	16.3	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<20	<20	69	628		µg/L	WA	2
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	10	9.4	11	14		µg/L	WA	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well YSB 1A continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	1,510	1,440	1,880	1,830		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	2,730	3,040	2,790	3,300		µg/L	WA	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	5.6	J3	µg/L	WA	0
		Copper, total recoverable	<4.0	<4.0	<4.0	13		µg/L	WA	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
■		Dichloromethane (Methylene chloride)	<1.0	<1.0	<1.0	5.5	V	µg/L	WA	2
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<2.0E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	39	<4.0	148	1,900		µg/L	WA	2
		Lead, total recoverable	<3.0	<3.0	<3.0	4.7	J3	µg/L	WA	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	330	316	370	405		µg/L	WA	0
		Manganese, total recoverable	<2.0	<2.0	<2.0	2.8		µg/L	WA	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L		
		Nickel, total recoverable	<4.0	<4.0	<4.0	4.7	J3	µg/L	WA	0
		Nitrate as nitrogen				926		µg/L	WA	0
		Nitrate-nitrite as nitrogen	1,340	1,010	1,170	860		µg/L	GE	0
		Nonvolatile beta	<2.0E+00	<2.0E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		pH	5.7	5.6	5.6	6.5	J	pH	WA	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	694	753	866	1,140		µg/L	WA	0
		Radium, total alpha-emitting	<1.0E+00	1.3E+00	<1.0E+00	1.1E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	9,130	8,530	9,240	10,800	V	µg/L	WA	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	3,300	2,880	2,950	2,640		µg/L	GE	0
		Specific conductance	30	29	33	33		µS/cm	GE	0
		Sulfate	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	29,000	22,000	25,000	27,000		µg/L	WA	0
		Total inorganic carbon	3,120	3,760	3,790	4,690		µg/L	GE	0
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	<5.0	<5.0	<5.0	5.5		µg/L	WA	0
		Total phosphates (as P)	<50	<50	200	102		µg/L	WA	0
		Toxaphene	<0.24					µg/L		
		2,4,5-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	2.3E+00	2.1E+00	2.8E+00	3.2E+00		pCi/mL	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well YSB 1A continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Zinc, total recoverable	3.7	3.4	<2.0	21		µg/L	GE	0

WELL YSB 2A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71010.0 E17850.2	33.211915 °N 81.757655 °W	127.7-97.7 ft msl	144.7 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/08/93 06/02/93 08/31/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	124.3	123.8	121.1	119.4	ft msl
Depth to water	20.4	20.9	23.6	25.3	ft
pH	5.3	5.3	5.7	5.5	pH
Sp. conductance	77	81	58	49	µS/cm
Water temperature	19.7	18.8	18.9	19.7	°C
Alkalinity as CaCO ₃	1	1	4	3	mg/L
Turbidity	1	1	0	2	NTU
Volume purged	7.2	7.8	10.5	4.1	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<20	<20	<20	<20		µg/L	GE	0
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	16	13	11	9.9		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	1,790	1,550	1,630	1,710		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	8,630	7,580	5,260	4,450		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Copper, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<2.0E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	104	52	94	356		µg/L	GE	2

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well YSB 2A continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Lead, total recoverable	3.6	<3.0	<3.0	4.4		µg/L	GE	0
		Lindane	<0.0050					µg/L	GE	0
		Magnesium, total recoverable	678	555	490	443		µg/L	GE	0
		Manganese, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0
		Methoxychlor	<0.50					µg/L	GE	0
		Nickel, total recoverable	5.1	<4.0	<4.0	9.3		µg/L	GE	0
		Nitrate-nitrite as nitrogen	1,810	1,630	830	710		µg/L	GE	0
		Nonvolatile beta	<2.0E+00	<2.0E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
•		pH	5.6	5.5	5.7	5.7	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	739	606	870	789		µg/L	GE	0
		Radium, total alpha-emitting	<1.0E+00	1.0E+00	<1.0E+00	<1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	8,230	7,340	8,160	7,890		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	9,890	9,630	7,110	6,010		µg/L	GE	0
		Specific conductance	68	68	52	50		µS/cm	GE	0
		Sulfate	4,370	6,360	3,470	4,260		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	49,000	40,000	30,000	26,000		µg/L	GE	0
		Total inorganic carbon	4,230	5,910	8,100	6,080		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	<1,000	<1,000		µg/L	GE	0
		Total organic halogens	<5.0	10	<5.0	<5.0		µg/L	GE	0
		Total phosphates (as P)	<50	<50	<50	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L	GE	0
		2,4,5-TP (Silvex)	<0.090					µg/L	GE	0
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	1.1E+00	1.1E+00	2.4E+00	2.6E+00		pCi/mL	GE	0
		Zinc, total recoverable	3.0	3.0	2.1	23		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL YSB 3A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70859.0 E17755.2	33.211427 °N 81.757611 °W	126.7-96.7 ft msl	143.9 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/08/93 06/02/93 08/31/93 11/30/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	124.1	122.9	120.0	118.6	ft msl
Depth to water	19.8	21.0	23.9	25.3	ft
pH	6.5	6.3	6.0	5.6	pH
Sp. conductance	256	394	298	295	µS/cm
Water temperature	16.7	17.6	19.1	21.2	°C
Alkalinity as CaCO ₃	46	64	31	18	mg/L
Turbidity	9	162	3	2	NTU
Volume purged	15.9	28.0	14.6	23.5	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	115	486	98	65		µg/L	GE	2
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	6.2	13	12	19		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	2,500	5,080	8,090	6,580		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	13,800	35,300	50,000	41,400		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	4.3	8.6	5.0	3.5		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	<1.0	1.6	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Copper, total recoverable	<4.0	7.6	8.0	7.1		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	<1.0	<1.0	<1.0	JV	µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<2.0E+00	2.1E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	80	630	225	178		µg/L	GE	1
		Lead, total recoverable	<3.0	8.7	<3.0	6.4		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	562	564	1,100	1,560		µg/L	GE	0
		Manganese, total recoverable	<2.0	161	9.2	8.3		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well YSB 3A continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Methoxychlor	<0.50					µg/L		
		Nickel, total recoverable	<4.0	13	8.0	1.1		µg/L	GE	0
		Nitrate as nitrogen			6,100			µg/L		
		Nitrate-nitrite as nitrogen	5,000	6,000	6,600	7,000		µg/L	GE	1
		Nonvolatile beta	<2.0E+00	<2.0E+00	6.0E+00	2.8E+00		pCi/L	GE	0
•		pH	6.5	6.4	6.2	5.8	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	666	706	1,380	1,490		µg/L	GE	0
		Radium-226			3.1E-01			pCi/L		
		Radium-228			2.6E+00			pCi/L		
		Radium, total alpha-emitting	<1.0E+00	<1.0E+00	<1.0E+00	<1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	2.3	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	5,370	6,100	9,330	10,100		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	52,300	71,900	50,500	48,100		µg/L	GE	0
		Specific conductance	231	340	284	294		µS/cm	GE	1
		Sulfate	15,200	12,500	9,100	7,980		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	152,000	237,000	169,000	172,000		µg/L	GE	0
		Total inorganic carbon	12,900	13,300	21,400	21,400		µg/L	GE	2
		Total organic carbon	<1,000	<1,000	2,190	1,850		µg/L	GE	0
		Total organic halogens	6.0	9.2	59	24		µg/L	GE	0
		Total phosphates (as P)	50	580	115	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,6-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	7.5E-01	<7.0E-01	2.1E+00	9.1E-01		pCi/mL	GE	0
		Zinc, total recoverable	<2.0	19	45	29		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

WELL YSB 4A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71020.7 E17739.8	33.211759 °N 81.757966 °W	127.6-97.6 ft msl	144.6 ft msl	4" PVC	S	Unconfined Aquifer

SAMPLE DATE 03/08/93 06/02/93 08/31/93 12/01/93

FIELD DATA

Analyte	1Q93	2Q93	3Q93	4Q93	Unit
Water elevation	122.4	122.1	119.6	118.0	ft msl
Depth to water	22.2	22.5	25.0	26.6	ft
pH	5.3	5.2	5.3	5.5	pH
Sp. conductance	122	120	99	80	µS/cm
Water temperature	18.9	18.3	19.2	20.2	°C
Alkalinity as CaCO ₃	1	3	2	3	mg/L
Turbidity	3	2	2	2	NTU
Volume purged	11.5	12.2	12.5	4.8	Well vol.
Sampling code					

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	28	74	80	40		µg/L	GE	1
		Arsenic, total recoverable	<2.0	<2.0	<2.0	<2.0	J1	µg/L	GE	0
		Barium, total recoverable	18	13	13	9.7		µg/L	GE	0
		Benzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromoform	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Bromomethane (Methyl bromide)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Cadmium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Calcium, total recoverable	2,020	1,890	1,730	1,460		µg/L	GE	0
		Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloride	14,900	14,400	11,700	9,820		µg/L	GE	0
		Chlorobenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2-Chloroethyl vinyl ether	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Chloroform	3.2	1.6	<1.0	<1.0		µg/L	GE	0
		Chloromethane (Methyl chloride)	<1.0	6.1	<1.0	<1.0		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0		µg/L	GE	0
		Copper, total recoverable	<4.0	<4.0	5.4	13		µg/L	GE	0
		Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Dichloromethane (Methylene chloride)	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.30					µg/L		
		1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Endrin	<0.0060					µg/L		
		Ethylbenzene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Fluoride	<100	<100	<100	<100		µg/L	GE	0
		Gross alpha	<2.0E+00	<2.0E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
		Iron, total recoverable	49	244	89	183		µg/L	GE	1
		Lead, total recoverable	<3.0	<3.0	<3.0	<3.0		µg/L	GE	0
		Lindane	<0.0050					µg/L		
		Magnesium, total recoverable	631	551	517	434		µg/L	GE	0
		Manganese, total recoverable	8.2	7.3	6.7	6.1		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	<0.20		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

■ = exceeded screening level or final primary drinking water standard for fourth quarter 1993.

Well YSB 4A continued

ANALYTICAL DATA

H	D	Analyte	1Q93	2Q93	3Q93	4Q93	Mod	Unit	Lab	Flag
		Methoxychlor	<0.50					µg/L		
		Nickel, total recoverable	4.1	4.1	5.6	14		µg/L	GE	0
		Nitrate as nitrogen		3,520				µg/L		
		Nitrate-nitrite as nitrogen	4,100	2,780	2,220	1,760		µg/L	GE	0
		Nonvolatile beta	<2.0E+00	2.1E+00	<2.0E+00	<2.0E+00		pCi/L	GE	0
•		pH	5.5	6.5	5.4	5.6	J	pH	GE	0
		Phenols	<5.0	<5.0	<5.0	<5.0		µg/L	GE	0
		Potassium, total recoverable	747	794	815	744		µg/L	GE	0
		Radium, total alpha-emitting	<1.0E+00	<1.0E+00	<1.0E+00	<1.0E+00		pCi/L	GE	0
		Selenium, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Silica, total recoverable	8,610	8,600	8,950	8,510		µg/L	GE	2
		Silver, total recoverable	<2.0	<2.0	<2.0	<2.0		µg/L	GE	0
		Sodium, total recoverable	18,500	16,400	14,800	12,200		µg/L	GE	0
		Specific conductance	109	103	89	82		µS/cm	GE	0
		Sulfate	4,720	5,180	5,060	5,270		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tetrachloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Toluene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Total dissolved solids	78,000	82,000	52,000	44,000		µg/L	GE	0
		Total inorganic carbon	10,600	13,100	10,800	8,550		µg/L	GE	1
		Total organic carbon	<1,000	<1,000	1,170	<1,000		µg/L	GE	0
		Total organic halogens	<5.0	19	<5.0	<5.0		µg/L	GE	0
		Total phosphates (as P)	<50	<50	<50	<50		µg/L	GE	0
		Toxaphene	<0.24					µg/L		
		2,4,6-TP (Silvex)	<0.090					µg/L		
		1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichloroethylene	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0		µg/L	GE	0
		Tritium	<7.0E-01	7.9E-01	1.9E+00	2.2E+00		pCi/mL	GE	0
		Zinc, total recoverable	5.3	8.2	6.2	23		µg/L	GE	0

Note: Flagging levels, modifiers, and laboratories are for fourth quarter 1993 data only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1993.

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Appendix E – Data Quality/Useability Assessment

Data Quality/Useability Assessment

Quality assurance/quality control (QA/QC) procedures relating to accuracy and precision of analyses performed on groundwater samples are followed in the field and laboratory and are reviewed prior to publication of results. The Environmental Protection Department/Environmental Monitoring Section's (EPD/EMS) review of the volume of analytical data acquired each quarter and presented in various reports is an ongoing process; its review of the QA/QC data cannot be completed in time to meet the deadlines for the reports required by the Resource Conservation and Recovery Act and associated regulations. Other site and regulatory personnel can obtain further information on the data quality and useability in a variety of ways, including those described below.

Data Qualification

The contract laboratories continually assess their own accuracy and precision according to U.S. Environmental Protection Agency (EPA) guidelines. They submit sample- or batch-specific QA/QC information either at the same time as analytical results or in a quarterly summary. Properly defined and used result modifiers (also referred to as qualifiers) can be a key component in assessing data useability. Result modifiers designed by EPD/EMS and used by the primary laboratories are presented in Appendix D.

Assessment of Accuracy of the Data

Accuracy, or the nearness of the reported result to the true concentration of a constituent in a sample, can be assessed in several ways.

A laboratory's general accuracy can be judged by analysis of results obtained from known samples. The non-radionuclide contract laboratories analyze commercial reference samples every quarter at EPD/EMS' request. The results of these analyses are presented in the EPD/EMS quarterly report, *The Savannah River Site's Groundwater Monitoring Program*. The primary laboratories also seek or maintain state certification by participating periodically in performance studies; reference samples and analysis of results are provided by EPA. Results of these studies also are published in the EPD/EMS quarterly reports.

Analysis of blanks provides a tool for assessing the accuracy of both sampling and laboratory analysis. Results for all field blanks for the quarter can be found in the EPD/EMS quarterly reports. Any field or laboratory blanks that exceeded established minimums are identified in the same reports, in tables associating them with groundwater samples analyzed in the same batches.

Surrogates, organic compounds similar in chemical behavior to the compounds of interest but not normally found in environmental samples, are used to monitor the effect of the matrix on the accuracy of analyses for organic parameters. For example, for analyses of volatile organics by EPA Method 8240, three surrogate compounds are added to all samples

and blanks in each analytical batch. In analyses of semivolatile organics, three to four acid compounds and three to four base/neutral compounds are used. Other surrogates are used in pesticides analyses. Percent recoveries for surrogate analyses are calculated by laboratory personnel, reported to EPD/EMS, reviewed, and entered into the database, but they are not published. If recoveries are not within specified limits, the laboratory is expected to re-run the samples or attach result qualifiers to the data identifying the anomalous results.

Sample-specific accuracy for both organic and inorganic parameters can be assessed by examination of matrix spike/matrix spike duplicate results. A sample is analyzed unspiked to determine a baseline set of values. A second portion of sample is spiked with known concentrations of compounds appropriate to the analyses being performed, typically 5 volatile organic compounds for volatile organics analyses, 11 semivolatile compounds for semivolatiles, 6 pesticide compounds for pesticides, all metals for metals analyses, and a known quantity of cyanide for cyanide analysis. The percentage of the spike compound that is recovered (i.e., measured in excess of the value obtained for the unspiked sample) is a direct measure of analytical accuracy. EPA requires matrix spike/matrix spike duplicates to be run at least once per 20 samples of similar matrix.

Matrix spike/matrix spike duplicate results are reported to EPD/EMS but are not published. For organic compounds, according to EPA guidelines, no action is taken on the basis of matrix spike/matrix spike duplicate data alone (i.e., no result modifiers are assigned solely on the basis of matrix spike results); however, the results can indicate if a lab is having a systematic problem in the analysis of one or more analytes.

In the case of inorganic compounds, such as metals, the matrix spike sample analysis provides information about the effect of each sample matrix on the digestion and measurement methodology. Data qualifiers can be assigned on the basis of the percentage of spike recovery and are reported in the published results tables.

Assessment of Precision

Precision of the analyses, or agreement of a set of replicate results among themselves, is assessed through the use of duplicates (laboratory-initiated) and blind replicates (provided by EPD/EMS). The results of duplicate and replicate analyses are presented in the results tables of the first, second, and third quarter reports. Duplicate and replicate results are not presented in fourth quarter reports; the results tables present instead only the highest result for each analyte for each quarter of the year.

The laboratories assess precision by calculating the relative percent difference, or RPD, for each pair of laboratory-initiated duplicate results. During 1992, at least one of the contract laboratories used a data qualifier (J3) to modify metals analyses when the RPD for laboratory duplicates was greater than 20%.

Additional statistical comparisons of laboratory duplicate and blind replicate results, both intra- and interlaboratory, are presented in the EPD/EMS quarterly reports. The calculation used for these reports is the MRD, or mean relative difference, which is similar to EPA's RPD except that the MRD provides a single value for all of the analyses of a particular com-

pound, either inter- or intralaboratory, during one quarter. Because detection limits may vary among samples, the MRD requires calculation of a reference detection limit, which is the detection limit at the 90th percentile of the array of limits in the population of all replicate and duplicate analyses for a given analyte during a particular quarter. The MRD is not method-specific.

Method-Specific Accuracy and Precision

The contract laboratories' EPA-approved laboratory procedures include QA/QC requirements as an integral part of the methods. Thus, knowledge of the method used in obtaining data is an important component of determining data useability. EPA has conducted extensive research and development on the methods approved for the analysis of water and waste water; information on the accuracy and precision of the method is available from EPA publications, as is full information on required QA/QC procedures. A listing of the methods used by the primary laboratories during first quarter 1992 is given below along with the source for the method description. Many, if not all, of these sources include presentations of representative accuracy and precision results.

<u>Method</u>	<u>Used to Analyze</u>	<u>Source</u>
EPA120.1	Specific conductance	EPA EMSL 1983
EPA150.1	pH	EPA EMSL 1983
EPA160.1	Filterable residue (total dissolved solids)	EPA EMSL 1983
EPA160.2	Nonfilterable residue	EPA EMSL 1983
EPA180.1	Turbidity	EPA EMSL 1983
EPA200.7	Trace elements	EPA EMSL 1983
EPA206.2	Arsenic	EPA EMSL 1983
EPA208.2	Barium	EPA EMSL 1983
EPA239.2	Lead	EPA EMSL 1983
EPA245.1	Mercury	EPA EMSL 1983
EPA270.2	Selenium	EPA EMSL 1983
EPA279.2	Thallium	EPA EMSL 1983
EPA300.0	Inorganics, non-metallics	EPA EMSL 1991
EPA310.1	Alkalinity	EPA EMSL 1983
EPA325.2	Chloride	EPA EMSL 1983
EPA335.3	Cyanide	EPA EMSL 1983
EPA340.2	Fluoride	EPA EMSL 1983
EPA353.1	Nitrogen, nitrate-nitrite	EPA EMSL 1983
EPA353.2	Nitrogen, nitrate, nitrite, or combined	EPA EMSL 1983
EPA353.3	Nitrogen, nitrate-nitrite, or nitrite only	EPA EMSL 1983
EPA354.1	Nitrogen, nitrite	EPA EMSL 1983
EPA365.1	Phosphorus, all forms (reported as total phosphates)	EPA EMSL 1983
EPA365.2	Phosphorus, all forms (reported as total phosphates)	EPA EMSL 1983
EPA375.4	Sulfate, turbidimetric	EPA EMSL 1983
EPA376.2	Sulfide	EPA EMSL 1983
APHA403	Alkalinity	APHA 1985
EPA413.1	Oil & grease	EPA EMSL 1983
APHA415A	Iodine	APHA 1985
EPA415.1	Total organic carbon	EPA EMSL 1983
EPA418.1	Petroleum hydrocarbons	EPA EMSL 1983
EPA420.1	Phenolics	EPA EMSL 1983
EPA420.2	Phenolics	EPA EMSL 1983
APHA705	Total alpha-emitting radium	APHA 1985

<u>Method</u>	<u>Used to Analyze</u>	<u>Source</u>
ASTMD3869C	Iodide	ASTM 1992
APHA5320	Dissolved organic halogen	APHA 1989
EPA6010	Metals	EPA 1986
EPA7041	Antimony	EPA 1986
EPA7060	Arsenic	EPA 1986
EPA7421	Lead	EPA 1986
EPA7470	Mercury	EPA 1986
EPA7740	Selenium	EPA 1986
EPA7841	Thallium	EPA 1986
EPA8010	Halogenated volatile organics	EPA 1986
EPA8020	Aromatic volatile organics	EPA 1986
EPA8080	Organochlorine pesticides and PCBs	EPA 1986
EPA8140	Organophosphorus pesticides	EPA 1986
EPA8150	Chlorinated herbicides	EPA 1986
EPA8240	GCMS VOA	EPA 1986
EPA8270	GCMS semivolatiles	EPA 1986
EPA8280	Dioxins and furans	EPA 1986
EPA9012	Total cyanide	EPA 1986
EPA9020	Total organic halides	EPA 1986
EPA9030	Sulfides	EPA 1986

An example of the available method-specific QA/QC information is that for the analysis of metals by EPA Method 6010/200.7 (EPA, 1986/EPA EMSL, 1983). The primary laboratories, General Engineering Laboratories (GE) and Roy F. Weston, Inc. (Weston), use this inductively coupled plasma (ICP) atomic emission spectrometric method.

The following precision and accuracy data are based on the experience of seven laboratories that applied the ICP technique to acid-distilled water matrices that had been dosed with various metal concentrates. (Note: not all seven laboratories analyzed all 14 elements.) The references give results for samples having three concentration ranges; the results here are for samples having the lowest values, similar to actual groundwater results for SRS.

ICP Precision and Accuracy Data

<u>Element</u>	<u>True value (µg/L)</u>	<u>Mean reported value (µg/L)</u>	<u>Mean percent RSD^a</u>
Aluminum	60	62	33
Arsenic	22	19	23
Beryllium	20	20	9.8
Cadmium	2.5	2.9	16
Chromium	10	10	18
Cobalt	20	20	4.1
Copper	11	11	40
Iron	20	19	15
Lead	24	30	32
Manganese	15	15	6.7
Nickel	30	28	11
Selenium	6	8.5	42

Element	True value ($\mu\text{g/L}$)	Mean reported value ($\mu\text{g/L}$)	Mean percent RSD ^a
Vanadium	70	69	2.9
Zinc	16	19	45

Note: In EPA (1986), the column heading is Mean Standard Deviation (%).

^a Relative standard deviation.

As another example, EPA Method 601/8010 (EPA, 1991/EPA, 1986) is used by both GE and Weston for analyses of halogenated volatile organics. In the presentation of the method in both references, the following table gives method-specific accuracy and precision as functions of concentration. Contract laboratories are expected to achieve or at least approach these limits.

Accuracy and Precision as Functions of Concentration for EPA Method 601/8010

Parameter	Accuracy as recovery, X' ^a ($\mu\text{g/L}$)	Single analyst precision ($\mu\text{g/L}$) ^b	Overall precision ($\mu\text{g/L}$) ^c
Bromodichloromethane	$1.12C - 1.02^d$	$0.11\bar{X} + 0.04^e$	$0.20\bar{X} + 1.00$
Bromoform	$0.96C - 2.05$	$0.12\bar{X} + 0.58$	$0.21\bar{X} + 2.41$
Bromomethane	$0.76C - 1.27$	$0.28\bar{X} + 0.27$	$0.36\bar{X} + 0.94$
Carbon tetrachloride	$0.98C - 1.04$	$0.15\bar{X} + 0.38$	$0.20\bar{X} + 0.39$
Chlorobenzene	$1.00C - 1.23$	$0.15\bar{X} - 0.02$	$0.18\bar{X} + 1.21$
Chloroethane	$0.99C - 1.53$	$0.14\bar{X} - 0.13$	$0.17\bar{X} + 0.63$
2-Chloroethyl vinyl ether ^f	$1.00C$	$0.20\bar{X}$	$0.35\bar{X}$
Chloroform	$0.93C - 0.39$	$0.13\bar{X} + 0.15$	$0.19\bar{X} - 0.02$
Chloromethane	$0.77C + 0.18$	$0.28\bar{X} - 0.31$	$0.52\bar{X} + 1.31$
Dibromochloromethane	$0.94C + 2.72$	$0.11\bar{X} + 1.10$	$0.24\bar{X} + 1.68$
1,2-Dichlorobenzene	$0.93C + 1.70$	$0.20\bar{X} + 0.97$	$0.13\bar{X} + 6.13$
1,3-Dichlorobenzene	$0.95C + 0.43$	$0.14\bar{X} + 2.33$	$0.26\bar{X} + 2.34$
1,4-Dichlorobenzene	$0.93C - 0.09$	$0.15\bar{X} + 0.29$	$0.20\bar{X} + 0.41$
1,1-Dichloroethane	$0.95C - 1.08$	$0.09\bar{X} + 0.17$	$0.14\bar{X} + 0.94$
1,2-Dichloroethane	$1.04C - 1.06$	$0.11\bar{X} + 0.70$	$0.15\bar{X} + 0.94$
1,1-Dichloroethene	$0.98C - 0.87$	$0.21\bar{X} - 0.23$	$0.29\bar{X} - 0.40$
trans-1,2-Dichloroethene	$0.97C - 0.16$	$0.11\bar{X} + 1.46$	$0.17\bar{X} + 1.46$
1,2-Dichloropropane ^f	$1.00C$	$0.13\bar{X}$	$0.23\bar{X}$
cis-1,3-Dichloropropene ^f	$1.00C$	$0.18\bar{X}$	$0.32\bar{X}$
trans-1,3-Dichloropropene ^f	$1.00C$	$0.18\bar{X}$	$0.32\bar{X}$
Dichloromethane	$0.91C - 0.93$	$0.11\bar{X} + 0.33$	$0.21\bar{X} + 1.43$
(Methylene chloride)			
1,1,2,2-Tetrachloroethane	$0.95C + 0.19$	$0.14\bar{X} + 2.41$	$0.23\bar{X} + 2.79$
Tetrachloroethylene	$0.94C + 0.06$	$0.14\bar{X} + 0.38$	$0.18\bar{X} + 2.21$
1,1,1-Trichloroethane	$0.90C - 0.16$	$0.15\bar{X} + 0.04$	$0.20\bar{X} + 0.37$
1,1,2-Trichloroethane	$0.86C + 0.30$	$0.13\bar{X} - 0.14$	$0.19\bar{X} + 0.67$
Trichloroethylene	$0.87C + 0.48$	$0.13\bar{X} - 0.03$	$0.23\bar{X} + 0.30$
Trichlorofluoromethane	$0.89C - 0.07$	$0.15\bar{X} + 0.67$	$0.26\bar{X} + 0.91$
Vinyl chloride	$0.97C - 0.36$	$0.13\bar{X} + 0.65$	$0.27\bar{X} + 0.40$

^a X' = expected recovery for one or more measurements of a sample containing a concentration of C , in $\mu\text{g/L}$.

- ^b Expected single analyst standard deviation of measurements.
- ^c Expected interlaboratory standard deviation of measurements.
- ^d C = true value for the concentration, in $\mu\text{g/L}$.
- ^e $\bar{X}$ = average recovery found for measurements of samples containing a concentration of C , in $\mu\text{g/L}$.
- ^f Estimates based on performance in a single laboratory.

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Appendix F – Time Series Plots

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Carbon Tetrachloride Concentrations Well TBG 1

Carbon Tetrachloride Concentrations Well TBG 3

Carbon Tetrachloride Concentrations Well TBG 4

Carbon Tetrachloride Concentrations Well TBG 5

Carbon Tetrachloride Concentrations Well TBG 6

Carbon Tetrachloride Concentrations Well TNX 2D

Carbon Tetrachloride Concentrations Well TNX 3D

Carbon Tetrachloride Concentrations Well TNX 4D

Carbon Tetrachloride Concentrations Well TNX 5D

Carbon Tetrachloride Concentrations Well TNX 6D

Carbon Tetrachloride Concentrations Well TNX 10D

Carbon Tetrachloride Concentrations Well TNX 11D

Carbon Tetrachloride Concentrations Well XSB 1D

Carbon Tetrachloride Concentrations Well XSB 2D

Carbon Tetrachloride Concentrations Well XSB 3A

Carbon Tetrachloride Concentrations Well XSB 4D

Nitrate Concentrations Well TNX 4D

Nitrate Concentrations Well TNX 3D

Nitrate Concentrations Well TNX 2D

Nitrate Concentrations Well TNX 1D

Nitrate Concentrations Well TBG 7

Nitrate Concentrations Well TBG 6

Nitrate Concentrations Well TBG 5B

Nitrate Concentrations Well TBG 5A

Nitrate Concentrations Well TBG 5

Nitrate Concentrations Well TBG 4

Nitrate Concentrations Well TBG 3

Nitrate Concentrations Well TBG 1

Nitrate Concentrations Well P 26D

Nitrate Concentrations Well P 26B

Nitrate Concentrations Well P 26A

Mercury Concentrations Well YSB 1A

Mercury Concentrations Well XSB 5A

Mercury Concentrations Well XSB 4D

Mercury Concentrations Well XSB 3A

Mercury Concentrations Well XSB 2D

Mercury Concentrations Well XSB 1A

Mercury Concentrations Well TNX 6D

Mercury Concentrations Well TNX 5D

Mercury Concentrations Well TNX 4D

Mercury Concentrations Well TNX 3D

Mercury Concentrations Well TBG 4

Mercury Concentrations Well TBG 3

Mercury Concentrations Well P 26D

Mercury Concentrations Well P 26B

Gross Alpha Activities Well YSB 4A

Gross Alpha Activities Well YSB 3A

Gross Alpha Activities Well YSB 2A

Gross Alpha Activities Well YSB 1A

Gross Alpha Activities Well XSB 5A

Gross Alpha Activities Well XSB 4D

Gross Alpha Activities Well XSB 3A

Gross Alpha Activities Well XSB 2D

Gross Alpha Activities Well XSB 1D

Gross Alpha Activities Well XSB 1B

Gross Alpha Activities Well XSB 1A

Gross Alpha Activities Well TNX 11D

Gross Alpha Activities Well TNX 10D

Gross Alpha Activities Well TNX 9D

Gross Alpha Activities Well TNX 8D

Gross Alpha Activities Well TNX 7D

Gross Alpha Activities Well TNX 6D

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Inches

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BY APPLIED IMAGE, INC.

3 of 4

Gross Alpha Activities Well TNX 5D

Gross Alpha Activities Well TNX 4D

Gross Alpha Activities Well TNX 3D

Gross Alpha Activities Well TNX 2D

Gross Alpha Activities Well TNX 1D

Gross Alpha Activities Well TBG 7

Gross Alpha Activities Well TBG 6

Gross Alpha Activities Well TBG 5B

Gross Alpha Activities Well TBG 5A

Gross Alpha Activities Well TBG 5

Gross Alpha Activities Well TBG 4

Gross Alpha Activities Well TBG 3

Gross Alpha Activities Well TBG 1

Gross Alpha Activities Well P 26D

Gross Alpha Activities Well P 26B

Field pH Well YSB 4A

Field pH Well YSB 3A

Field pH Well YSB 2A

Field pH Well YSB 1A

Field pH Well Cluster XSB 5

Field pH Well Cluster XSB 4

Field pH Well XSB 3A

Field pH Well Cluster XSB 2

Field pH Well Cluster XSB 1

Field pH Well TNX 12D

Field pH Well TNX 11D

Field pH Well TNX 10D

Field pH Well TNX 9D

Field pH Well TNX 8D

Field pH Well TNX 7D

Field pH Well TNX 6D

Field pH Well TNX 5D

Field pH Well TNX 4D

Field pH Well TNX 3D

Field pH Well TNX 2D

Field pH Well TNX 1D

Field pH Well TBG 7

Field pH Well TBG 6

Field pH Well Cluster TBG 5

Field pH Well TBG 4

Field pH Well TBG 3

Field pH Well TBG 1

Field pH Well Cluster P 26

Carbon Tetrachloride Concentrations Well XSB 5A

Radium-226 Activities Well TBG 6

Radium-226 Activities Well TBG 7

Radium-226 Activities Well TNX 1D

Radium-226 Activities Well TNX 2D

Radium-226 Activities Well TNX 3D

Radium-226 Activities Well TNX 4D

Radium-226 Activities Well TNX 5D

Radium-226 Activities Well TNX 6D

Radium-226 Activities Well TNX 7D

Radium-226 Activities Well TNX 8D

Radium-226 Activities Well TNX 9D

Radium-226 Activities Well TNX 10D

Radium-226 Activities Well TNX 11D

Radium-226 Activities Well TNX 12D

Radium-226 Activities Well XSB 1A

Radium-226 Activities Well XSB 1B

Radium-226 Activities Well XSB 1D

Radium-226 Activities Well XSB 2D

Radium-226 Activities Well XSB 3A

Radium-226 Activities Well XSB 4D

Radium-226 Activities Well XSB 5A

Radium-226 Activities Well YSB 2A

Radium-226 Activities Well YSB 3A

Radium-226 Activities Well YSB 4A

Radium-228 Activities Well P 26A

Radium-228 Activities Well P 26B

Radium-228 Activities Well P 26D

Radium-228 Activities Well TBG 1

Radium-228 Activities Well TBG 3

Radium-228 Activities Well TBG 4

Radium-228 Activities Well TBG 5A

Radium-228 Activities Well TBG 5B

Radium-228 Activities Well TBG 6

Radium-228 Activities Well TBG 7

Radium-228 Activities Well TNX 1D

Radium-228 Activities Well TNX 2D

Radium-228 Activities Well TNX 3D

Radium-228 Activities Well TNX 4D

Radium-228 Activities Well TNX 5D

Radium-228 Activities Well TNX 6D

Radium-228 Activities Well TNX 7D

Radium-228 Activities Well TNX 8D

Radium-228 Activities Well TNX 9D

Radium-228 Activities Well TNX 10D

Radium-228 Activities Well TNX 11D

Radium-228 Activities Well TNX 12D

Radium-228 Activities Well XSB 1A

Radium-228 Activities Well XSB 1B

Radium-228 Activities Well XSB 1D

Radium-228 Activities Well XSB 2D

Radium-228 Activities Well XSB 3A

4 of 4

Radium-228 Activities Well XSB 4D

Radium-228 Activities Well XSB 5A

Radium-228 Activities Well YSB 2A

Radium-228 Activities Well YSB 3A

Radium-228 Activities Well YSB 4A

Tetrachloroethylene Concentrations Well P 26A

Tetrachloroethylene Concentrations Well TBG 1

Tetrachloroethylene Concentrations Well TBG 3

Tetrachloroethylene Concentrations Well TBG 4

Tetrachloroethylene Concentrations Well TBG 5

Tetrachloroethylene Concentrations Well TBG 5A

Tetrachloroethylene Concentrations Well TBG 5B

Tetrachloroethylene Concentrations Well TBG 7

Tetrachloroethylene Concentrations Well TNX 1D

Tetrachloroethylene Concentrations Well TNX 2D

**Tetrachloroethylene Concentrations
Well TNX 3D**

Tetrachloroethylene Concentrations Well TNX 4D

Tetrachloroethylene Concentrations Well TNX 5D

Tetrachloroethylene Concentrations Well TNX 6D

Tetrachloroethylene Concentrations Well TNX 7D

Tetrachloroethylene Concentrations Well TNX 8D

Tetrachloroethylene Concentrations Well TNX 10D

Tetrachloroethylene Concentrations Well TNX 11D

Tetrachloroethylene Concentrations Well XSB 1D

Tetrachloroethylene Concentrations Well XSB 2D

Tetrachloroethylene Concentrations Well XSB 4D

Tetrachloroethylene Concentrations Well YSB 4A

Trichloroethylene Concentrations Well TBG 1

Trichloroethylene Concentrations Well TBG 3

Trichloroethylene Concentrations Well TBG 4

Trichloroethylene Concentrations Well TBG 5

Trichloroethylene Concentrations Well TBG 5A

Trichloroethylene Concentrations Well TBG 6

Trichloroethylene Concentrations Well TBG 7

Trichloroethylene Concentrations Well TNX 1D

Trichloroethylene Concentrations Well TNX 2D

Trichloroethylene Concentrations Well TNX 3D

Trichloroethylene Concentrations Well TNX 4D

Trichloroethylene Concentrations Well TNX 8D

Trichloroethylene Concentrations Well TNX 9D

Trichloroethylene Concentrations Well TNX 10D

Trichloroethylene Concentrations Well TNX 11D

Trichloroethylene Concentrations Well TNX 12D

Trichloroethylene Concentrations Well XSB 1D

Trichloroethylene Concentrations Well XSB 2D

Trichloroethylene Concentrations Well XSB 3A

Trichloroethylene Concentrations Well XSB 4D

Trichloroethylene Concentrations Well XSB 5A

Appendix G – Hydrographs

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Hydrograph Well Cluster P 26

Hydrograph Well TBG 1

Hydrograph Well TBG 3

Hydrograph Well TBG 4

Hydrograph Well Cluster TBG 5

Hydrograph Well TBG 6

Hydrograph Well TBG 7

Hydrograph Well TNX 1D

Hydrograph Well TNX 2D

Hydrograph Well TNX 3D

Hydrograph Well TNX 4D

Hydrograph Well TNX 5D

Hydrograph Well TNX 6D

Hydrograph Well TNX 7D

Hydrograph Well TNX 8D

Hydrograph Well TNX 9D

Hydrograph Well TNX 10D

Hydrograph Well TNX 11D

Hydrograph Well TNX 12D

Hydrograph Well Cluster XSB 1

Hydrograph Well Cluster XSB 2

Hydrograph Well XSB 3A

Hydrograph Well Cluster XSB 4

Hydrograph Well Cluster XSB 5

Hydrograph Well YSB 1A

Hydrograph Well YSB 2A

Hydrograph Well YSB 3A

Hydrograph Well YSB 4A

DATE

FILMED

7/01/94

END